

*CITY OF POMPANO BEACH,  
FLORIDA*

**PROFESSIONAL CONSULTING AGREEMENT**

**with**

**E SCIENCES, INCORPORATED**



**CONTINUING CONTRACT FOR ENVIROMENTAL TESTING  
SERVICES FOR VARIOUS CITY PROJECTS E-22-20**

**CONTRACT FOR  
PROFESSIONAL CONSULTING SERVICES**

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This Contract is made on \_\_\_\_\_, by and between the CITY OF POMPANO BEACH, a municipal corporation of the State of Florida, hereinafter referred to as "CITY," and E SCIENCES, INCORPORATED, a Florida corporation, hereinafter referred to as the "Consultant".

**WHEREAS**, the Consultant is able and prepared to provide such services as City requires under the terms and conditions set forth herein; and

**WHEREAS**, the City Commission has approved the recommendation that Consultant be employed by the City and authorized the negotiation of contractual terms.

**NOW, THEREFORE**, in consideration of the mutual promises herein, the City and the Consultant agree as follows:

**ARTICLE 1 – SERVICES/CONSULTANT AND CITY REPRESENTATIVES**

The Consultant's responsibility under this Contract is to provide professional consulting services as more specifically set forth in RLI No. E-22-20 attached hereto as Exhibit A and incorporated herein in its entirety.

The Consultant's representative shall be Peter K. Partlow

The CITY's representative shall be City Engineer or designee,

**ARTICLE 2 – TERM**

The CONSULTANT shall adhere to the schedule given in each work authorization after receiving the "Notice to Proceed."

Reports and other items shall be delivered or completed in accordance with the detailed schedule set forth in individual Work Authorizations as negotiated.

The Term of this Contract shall be for an initial period of five (5) years from the date of execution by both the City and the Consultant.

### ARTICLE 3 – PAYMENTS TO CONSULTANT

A. City agrees to pay Consultant in consideration for its services described herein. It is the intention of the parties hereby to ensure that unless otherwise directed by the City in writing, Consultant will continue to provide services as specified in Exhibit A for the term of this Contract.

B. Price Formula. City agrees to pay Consultant as negotiated on a Work Authorization basis. Each work authorization shall specifically identify the scope of the work to be performed and the fees for said services. As set forth in RLI No. E-22-20, professional services under this contract will be restricted to those required for any project for which construction costs will not exceed four million dollars (\$4,000,000.00), and for any study activity fees shall not exceed five hundred thousand dollars (\$500,000.00).

C. Fee Determination. Each individual Work Authorization may be negotiated for fees to be earned by Time and Materials with a Not to Exceed Amount, Lump Sum, or a combination of both methods for subtasks contained therein. The total amount to be paid by the City under a Work Authorization shall not exceed specified amounts for all services and materials including “out of pocket” expenses as specified in Paragraph E below and also including any approved subcontracts unless otherwise agreed in writing by both parties. The Consultant shall notify the City’s Representative in writing when 90% of the “not to exceed amount” for the total Work Authorization has been reached. The Consultant will bill the City on a monthly basis, or as otherwise provided. Time and Materials billing will be made at the amounts set forth in Exhibit B for services rendered toward the completion of the Scope of Work. Where incremental billings for partially completed items are permitted, the total billings shall not exceed the estimated percentage of completion as of the billing date. It is acknowledged and agreed to by the Consultant that the dollar limitation set forth in this section is a limitation upon and describes the maximum extent of City’s obligation to pay Consultant, but does not include a limitation upon Consultant’s duty to perform all services set forth in Exhibit A for the total compensation in the amount or less than the guaranteed maximum stated above.

D. Invoices received by the City from the Consultant pursuant to this Contract will be reviewed and approved in writing by the City’s Representative, indicating that services have been rendered in conformity with the Contract, and then will be sent to the City’s Finance Department for payment. All invoices shall contain a detailed breakdown of the services provided for which payment is being requested. In addition to detailed invoices, upon request of the City’s representative, Consultant shall provide City with detailed periodic Status Reports on the project. All invoice payments by City shall be made after the Work has been verified and completed. Unless disputed by City as provided herein, upon City’s receipt of a Proper Invoice as defined in §218.72, Florida Statutes, as amended, City shall forward Consultant payment for work performed within forty five (45) days for all goods and services provided.

City may temporarily remove for review any disputed amount, by line item, from an invoice and shall timely provide Consultant written notification of any such disputed charge. Consultant shall provide clarification and a satisfactory explanation to City, along with revised copies of all such documents if inaccuracies or errors are discovered, within ten (10) days of receipt of City’s notice of the disputed amount

In the event City has a claim against Consultant for Work performed hereunder which has not been timely remedied in accordance with the provisions of this Article 3, City may withhold payment for the contested amount, in whole or in part, to protect itself from loss on account of defective Work, claims filed or reasonable evidence indicating probable filing of claims by other parties against Consultant, and/or Consultant's failure to make proper payments to subcontractors or vendors for material or labor. When the reason(s) for withholding payment are removed or resolved in a manner satisfactory to City, payment shall be made.

E. "Out-of-pocket" expenses shall be reimbursed up to an amount not to exceed amounts included in each Work Authorization. All requests for payment of "out-of-pocket" expenses eligible for reimbursement under the terms of this Contract shall include copies of paid receipts, invoices, or other documentation acceptable to the City's Representative and to the Finance Department. Such documentation shall be sufficient to establish that the expense was actually incurred and necessary in the performance of the Scope of Work described in a Work Authorization and this Contract. All out-of-pocket, reimbursables and expenses shall be billed at actual amount paid by Consultant, with no markup.

F. Final Invoice. In order for both parties herein to close their books and records, the Consultant will clearly state "Final Invoice" on the Consultant's final/last billing to the City. This final invoice shall also certify that all services provided by Consultant have been properly performed and all charges and costs have been invoiced to the City. Because this account will thereupon be closed, any and other further charges not properly included on this final invoice are waived by the Consultant.

#### **ARTICLE 4 – TRUTH-IN-NEGOTIATION CERTIFICATE**

Signature of this Contract by the Consultant shall also act as the execution of a truth in negotiation certificate, certifying that the wage rates, overhead charges, and other costs used to determine the compensation provided for this Contract are accurate, complete and current as of the date of the Contract and no higher than those charged the Consultant's most favored customer for the same or substantially similar service. Should the City determine that said rates and costs were significantly increased due to incomplete, non-current or inaccurate representation, then said rates shall be adjusted accordingly.

#### **ARTICLE 5 – TERMINATION**

City shall have the right to terminate this Contract, in whole or in part, for convenience, cause, default or negligence on Consultant's part, upon ten (10) business days advance written notice to Consultant. Such Notice of Termination may include City's proposed Transition Plan and timeline for terminating the Work, requests for certain Work product documents and materials, and other provisions regarding winding down concerns and activities.

If there is any material breach or default in Consultant's performance of any covenant or obligation hereunder which has not been remedied within ten (10) business days after City's

written Notice of Termination, City, in its sole discretion, may terminate this Contract immediately and Consultant shall not be entitled to receive further payment for services rendered from the effective date of the Notice of Termination.

In the event of termination, City shall compensate Consultant for all authorized Work satisfactorily performed through the termination date under the payment terms set forth in Article 3 above and all Work product documents and materials shall be delivered to City within ten (10) business days from the Notice of Termination. If any Work hereunder is in progress but not completed as of the date of the termination, then upon City's written approval, this Contract may be extended until said Work is completed and accepted by City.

This Contract may be cancelled by the Consultant, upon thirty (30) days prior written notice to the City's Representative, in the event of substantial failure by the City to perform in accordance with the terms of this Contract through no fault of the Consultant.

## **ARTICLE 6 – PERSONNEL**

The Consultant is, and shall be, in the performance of all work services and activities under this Contract, an independent Contractor, and not an employee, agent or servant of the City. All persons engaged in any of the work or services performed pursuant to this Contract shall at all times, and in all places, be subject to the Consultant's sole direction, supervision, and control and shall not in any manner be deemed to be employees of the City. The Consultant shall exercise control over the means and manner in which it and its employees perform the work. This contract does not create a partnership or joint venture between the parties.

The Consultant represents that it has, or will secure at its own expense, all necessary personnel required to perform the services under this Contract. Such personnel shall not be employees of or have any contractual relationship with the City, nor shall such personnel be subject to any withholding for tax, Social Security or other purposes by the City, nor be entitled to any benefits of the City including, but not limited to, sick leave, pension benefits, vacation, medical benefits, life insurance, workers or unemployment compensation benefits, or the like from the City.

All of the services required hereunder shall be performed by the Consultant or under its supervision, and all personnel engaged in performing the services shall be fully qualified and, if required, authorized or permitted under state and local law to perform such services.

Any changes or substitutions in the Consultant's key personnel, as may be listed in Article 1, must be made known to the City's Representative at the time substitution becomes effective.

The Consultant warrants that all services shall be performed by skilled and competent personnel to the degree exercised by consultants performing the same or similar services in the same location at the time the services are provided.

## **ARTICLE 7 – SUBCONTRACTING**

Consultant may subcontract any services or work to be provided to City with the prior written approval of the City's Representative. The City reserves the right to accept the use of a subcontractor or to reject the selection of a particular subcontractor and to inspect all facilities of any subcontractors in order to make determination as to the capability of the subcontractor to perform properly under this Contract. The City's acceptance of a subcontractor shall not be unreasonably withheld. The Consultant is encouraged to seek small business enterprises and to utilize businesses that are physically located in the City of Pompano Beach with a current Business Tax Receipt for participation in its subcontracting opportunities.

## **ARTICLE 8 – FEDERAL AND STATE TAX**

The City is exempt from payment of Florida State Sales and Use Taxes. The City will provide the Consultant with the current state issued exemption certificate. The Consultant shall not be exempted from paying sales tax to its suppliers for materials used to fulfill contractual obligations with the City, nor is the Consultant authorized to use the City's Tax Exemption Number in securing such materials.

The Consultant shall be responsible for payment of its own and its share of its employees' payroll, payroll taxes and benefits with respect to this Contract

## **ARTICLE 9 – AVAILABILITY OF FUNDS**

The City's performance and obligation to pay under this contract is contingent upon appropriation for various projects, tasks and other professional services by the City Commission.

## **ARTICLE 10 - INSURANCE REQUIREMENTS**

The Consultant shall not commence work under this Contract until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the City, nor shall the Consultant allow any Subcontractor to commence work on its sub-contract until the aforementioned approval is obtained.

CERTIFICATE OF INSURANCE, reflecting evidence of the required insurance, shall be filed with the Risk Manager prior to the commencement of the work. The Certificate shall contain a provision that coverage afforded under these policies will not be cancelled, will not expire and will not be materially modified until at least thirty (30) days prior written notice has been given to the City. Policies shall be issued by companies authorized to conduct business under the laws of the State of Florida and shall have adequate Policyholders and Financial ratings in the latest ratings of A. M. Best and be part of the **Florida Insurance Guarantee Association Act**.

Insurance shall be in force until all work required to be performed under the terms of the Contract is satisfactorily completed as evidenced by the formal acceptance by the City. In the event the Insurance Certificate provided indicates that the insurance shall terminate and lapse during the period of this Contract, the Consultant shall furnish, at least ten (10) days prior to the

expiration of the date of such insurance, a renewed Certificate of Insurance as proof that equal and like coverage for the balance of the period of the Contract and extension thereunder is in effect. The Consultant shall not continue to work pursuant to this Contract unless all required insurance remains in full force and effect.

Limits of Liability for required insurance are shown in Exhibit C.

The City of Pompano Beach must be named as an additional insured for the Automobile and Commercial General Liability Coverage.

For Professional Liability, if coverage is provided on a claims made basis, then coverage must be continued for the duration of this Contract and for not less than one (1) year thereafter, or in lieu of continuation, provide an "extended reporting clause" for one (1) year.

Consultant shall notify the City Risk Manager in writing within thirty (30) days of any claims filed or made against the Professional Liability Insurance Policy.

For Workers' Compensation Insurance, coverage shall be maintained during the life of this Contract to comply with statutory limits for all employees, and in the case of any work sublet, the Consultant shall require any Subcontractors similarly to provide Workers' Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the Consultant. The Consultant and his Subcontractors shall maintain during the life of this Contract Employer Liability Insurance.

## **ARTICLE 11 – INDEMNIFICATION**

A. Consultant shall at all times indemnify, hold harmless the City, its officials, employees, volunteers and other authorized agents from and against any and all claims, demands, suit, damages, attorneys' fees, fines, losses, penalties, defense costs or liabilities suffered by the City to the extent caused by any negligent act, omission, breach, recklessness or misconduct of Consultant and/or any of its agents, officers, or employees hereunder, including any inaccuracy in or breach of any of the representations, warranties or covenants made by the Consultant, its agents, officers and/or employees, in the performance of services of this contract. To the extent considered necessary by City, any sums due Consultant hereunder may be retained by City until all of City's claims for indemnification hereunder have been settled or otherwise resolved, and any amount withheld shall not be subject to payment or interest by City.

B. Consultant acknowledges and agrees that City would not enter into this Contract without this indemnification of City by Consultant. The parties agree that one percent (1%) of the total compensation paid to Consultant hereunder shall constitute specific consideration to Consultant for the indemnification provided under this Article and these provisions shall survive expiration or early termination of this Contract.

C. Nothing in this Agreement shall constitute a waiver by the City of its sovereign immunity limits as set forth in section 768.28, Florida Statutes. Nothing herein shall be construed as consent from either party to be sued by third parties.

## **ARTICLE 12 – SUCCESSORS AND ASSIGNS**

The City and the Consultant each binds itself and its partners, successors, executors, administrators and assigns to the other party of this Contract and to the partners, successors, executors, administrators and assigns of such other party, in respect to all covenants of this Contract. Except as above, neither the City nor the Consultant shall assign, sublet, encumber, convey or transfer its interest in this Contract without prior written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of the City, which may be a party hereto, nor shall it be construed as giving any rights or benefits hereunder to anyone other than the City and the Consultant.

## **ARTICLE 13 – REMEDIES**

The laws of the State of Florida shall govern this Contract. Any and all legal action between the parties arising out of the Contract will be held in Broward County. No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise. No single or partial exercise by any party of any right, power or remedy hereunder shall preclude any other or further exercise thereof.

## **ARTICLE 14 – CONFLICT OF INTEREST**

The Consultant represents that it has no interest and shall acquire no interest, either direct or indirect, which would conflict in any manner with the performance of services required hereunder, as provided for in the Code of Ethics for Public Officers and Employees (Chapter 112, Part III, Florida Statutes). The Consultant further represents that no person having any interest shall be employed for said performance.

The Consultant shall promptly notify the City's representative, in writing, by certified mail, of a potential conflict(s) of interest for any prospective business association, interest or other circumstance, which may influence or appear to influence the Consultant's judgment or quality of services being provided hereunder. Such written notification shall identify the prospective business association, interest or circumstance, the nature of work that the Consultant may undertake and request an opinion of the City as to whether the association, interest or circumstance would, in the opinion of the City, constitute a conflict of interest if entered into by the Consultant. The City agrees to notify the Consultant of its opinion by certified mail within thirty (30) days of receipt of notice by the Consultant. If, in the opinion of the City, the prospective business association, interest, or circumstance would not constitute a conflict of interest by the Consultant, the City shall so state in the notice and the Consultant shall at its option, enter into said association, interest or circumstance and it shall be deemed not a conflict of interest with respect to services provided to the City by the Consultant under the terms of this Contract.

## **ARTICLE 15 – EXCUSABLE DELAYS**

The Consultant shall not be considered in default by reason of any failure in performance if such failure arises out of causes reasonably beyond the control of the Consultant or its subcontractors and without their fault or negligence. Such causes include, but are not limited to, acts of God; natural or public health emergencies; freight embargoes; and abnormally severe and unusual weather conditions.

Upon the Consultant's request, the City shall consider the facts and extent of any failure to perform the work and, if the Consultant's failure to perform was without it, or its subcontractors' fault or negligence, the Contract Schedule and/or any other affected provision of this Contract shall be revised accordingly; subject to the City's rights to change, terminate, or stop any or all of the work at any time.

## **ARTICLE 16 – DEBT**

The Consultant shall not pledge the City's credit or attempt to make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien or any form of indebtedness. The Consultant further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Contract.

## **ARTICLE 17 – DISCLOSURE AND OWNERSHIP OF DOCUMENTS**

The Consultant shall deliver to the City's representatives for approval and acceptance, and before being eligible for final payment of any amounts due, all documents and materials prepared by and for the City under this Contract.

All written and oral information not in the public domain or not previously known, and all information and data obtained, developed, or supplied by the City or at its expense will be kept confidential by the Consultant and will not be disclosed to any other party, directly or indirectly, without the City's prior written consent unless required by a lawful order. All drawings, maps, sketches, programs, data base, reports and other data developed, or purchased, under this Contract for or at the City's expense shall be and remain the City's property and may be reproduced and reused at the discretion of the City.

A. The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Consultant shall comply with Florida's Public Records Law, as amended. Specifically, the Consultant shall:

1. Keep and maintain public records required by the City in order to perform the service.
2. Upon request from the City's custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law.

3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Consultant does not transfer the records to the City.

4. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Consultant, or keep and maintain public records required by the City to perform the service. If the Consultant transfers all public records to the City upon completion of the contract, the Consultant shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Consultant keeps and maintains public records upon completion of the contract, the Consultant shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.

B. Failure of the Consultant to provide the above described public records to the City within a reasonable time may subject Consultant to penalties under 119.10, Florida Statutes, as amended.

## **PUBLIC RECORDS CUSTODIAN**

**IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:**

**CITY CLERK  
100 W. Atlantic Blvd., Suite 253  
Pompano Beach, Florida 33060  
(954) 786-4611  
[RecordsCustodian@copbfl.com](mailto:RecordsCustodian@copbfl.com)**

All covenants, agreements, representations and warranties made herein, or otherwise made in writing by any party pursuant hereto, including but not limited to any representations made herein relating to disclosure or ownership of documents, shall survive the execution and delivery of this Contract and the consummation of the transactions contemplated thereby.

**ARTICLE 18 – CONTINGENT FEES**

The Consultant warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Consultant to solicit or secure this Contract and that it has not paid or agreed to pay any person, company, corporation, individual, or firm, other than a bona fide employee working solely for the Consultant, any fee, commission, percentage, gift, or any other consideration contingent upon or resulting from the award or making of this Contract. Violation of this Article shall constitute a forfeiture of this Contract by Consultant.

**ARTICLE 19 – ACCESS AND AUDITS**

The Consultant shall maintain adequate records to justify all charges, expenses, and cost incurred in estimating and performing the work for at least three (3) years after completion of this Contract. The City shall have access to such books, records and documents as required in this section for the purpose of inspection or audit during normal business hours, at the Consultant’s place of business.

**ARTICLE 20 – NONDISCRIMINATION**

The Consultant warrants and represents that all of its employees are treated equally during employment without regard to race, color, religion, disability, sex, age, national origin, ancestry, marital status and sexual orientation.

**ARTICLE 21 – INTERPRETATION**

The language of this Contract has been agreed to by both parties to express their mutual intent and no rule of strict construction shall be applied to either party hereto. The headings are for reference purposes only and shall not affect in any way the meaning or interpretation of this Contract. All personal pronouns used in this Contract shall include the other gender, and the singular, the plural, and vice versa, unless the context otherwise requires.

**ARTICLE 22 – AUTHORITY TO PRACTICE**

The Consultant hereby represents and warrants that it has and will continue to maintain all licenses and approvals required conducting its business, and that it will at all times conduct its business activities in a reputable manner. Proof of such licenses and approvals shall be submitted to the City’s representative upon request.

**ARTICLE 23 – SEVERABILITY**

If any term or provision of this Contract, or the application thereof to any person or circumstances shall, to any extent be held invalid or unenforceable, to remainder of this Contract, or the application of such terms or provision, to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected, and every other term and provision of this Contract shall be deemed valid and enforceable to the extent permitted by law.

**ARTICLE 24 – ENTIRETY OF CONTRACTUAL AGREEMENT**

The City and the Consultant agree that this Contract, together with the Exhibits hereto, sets forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. It is further agreed that no modification, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and off equal dignity herewith. None of the provisions, terms and conditions contained in this Contract may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto in accordance with Article 25 – Modification of Work. In the event of any conflict or inconsistency between this Contract and the provisions in the incorporated Exhibits, the terms of this Contract shall supersede and prevail over the terms in the Exhibits.

**ARTICLE 25 – MODIFICATION OF SCOPE OF WORK**

The City reserves the right to make changes in the Scope of Work, including alterations, reductions therein or additions thereto. Upon receipt by the Consultant of the City’s notification of a contemplated change, the Consultant shall, in writing: (1) provide a detailed estimate for the increase or decrease in cost due to the contemplated change; (2) notify the City of any estimated change in the completion date; and (3) advise the City if the contemplated change shall affect the Consultant’s ability to meet the completion dates or schedules of this Contract.

If the City so instructs in writing, the Consultant shall suspend work on that portion of the Scope of Work affected by a contemplated change, pending the City’s decision to proceed with the change.

If the City elects to make the change, the City shall initiate a Work Authorization Amendment and the Consultant shall not commence work on any such change until such written amendment is signed by the Consultant and the City Manager, and if such amendment is in excess of \$75,000, it must also first be approved by the City Commission and signed by the appropriate City Official authorized by the City Commission

The City shall not be liable for payment of any additional or modified work, which is not authorized in the manner provided for by this Article.

**ARTICLE 26 – NOTICE**

All notices required in this Contract shall be sent by certified mail, return receipt requested, to the following:

**FOR CITY:**

City Manager  
City of Pompano Beach  
Post Office Drawer 1300  
Pompano Beach, Florida 33061

**FOR CONSULTANT:**

E Sciences, Incorporated  
34 East Pine St  
Orlando, FL 32801

**ARTICLE 27 – OWNERSHIP OF DOCUMENTS**

All finished or unfinished documents, data, reports, studies, surveys, drawings, maps, models and photographs prepared or provided by the Consultant in connection with this Contract shall become property of the City, whether the project for which they are made is completed or not, and shall be delivered by Consultant to City within ten (10) days of notice of termination. If applicable, City may withhold any payments then due to Consultant until Consultant complies with the provisions of this section.

**ARTICLE 28 – PROMOTING PROJECT OBJECTIVES**

Consultant, its employees, subcontractors, and agents shall refrain from acting adverse to the City’s interest in promoting the goals and objectives of the projects. Consultant shall take all reasonable measures necessary to effectuate these assurances. In the event Consultant determines it is unable to meet or promote the goals and objectives of the projects, it shall immediately notify the City and the City, may then in its discretion, terminate this Contract.

**ARTICLE 29 – PUBLIC ENTITY CRIMES ACT**

As of the full execution of this Contract, Consultant certifies that in accordance with §287.133, Florida Statutes, it is not on the Convicted Vendors List maintained by the State of Florida, Department of General Services. If Consultant is subsequently listed on the Convicted Vendors List during the term of this Contract, Consultant agrees it shall immediately provide City written notice of such designation in accordance with Article 26 above.

**ARTICLE 30 – GOVERNING LAW**

This Contract must be interpreted and construed in accordance with and governed by the laws of the State of Florida. The exclusive venue for any lawsuit arising from, related to, or in connection with this Agreement will be in the state courts of the Seventeenth Judicial Circuit in and for Broward County, Florida. If any claim arising from, related to, or in connection with this Agreement must be litigated in federal court, the exclusive venue for any such lawsuit will be in the United States District Court or United States Bankruptcy Court for the Southern District of Florida. BY ENTERING INTO THIS AGREEMENT, THE PARTIES HEREBY EXPRESSLY WAIVE ANY RIGHTS EITHER PARTY MAY HAVE TO A TRIAL BY JURY OF ANY CIVIL LITIGATION RELATED TO THIS AGREEMENT.

**ARTICLE 31 - BINDING EFFECT**

The benefits and obligations imposed pursuant to this Contract shall be binding and enforceable by and against the parties hereto.

**THE REMAINDER OF THE PAGE IS INTENTIONALLY LEFT BLANK**

**“CITY”**

**IN WITNESS WHEREOF**, the parties hereto have caused this Agreement to be executed the day and year hereinabove written.

Attest:

**CITY OF POMPANO BEACH**

\_\_\_\_\_  
ASCELETA HAMMOND, CITY CLERK

By: \_\_\_\_\_  
REX HARDIN, MAYOR

(SEAL)

By: \_\_\_\_\_  
GREGORY P. HARRISON, CITY MANAGER

APPROVED AS TO FORM:

\_\_\_\_\_  
MARK E. BERMAN, CITY ATTORNEY

**"CONSULTANT"**

**E SCIENCES, INC.**

Witnesses:

[Signature]  
Signature

Laura Aldridge  
Name Typed, Printed or Stamped

By: [Signature]  
Peter K. Partlow, President

[Signature]  
Signature

Lilian Arguello  
Name Type, Printed or Stamped

STATE OF FLORIDA  
COUNTY OF Orange

The foregoing instrument was acknowledged before me, by means of  physical presence or  online notarization, this 2 day of April, 2021 by Peter K. Partlow, as President of E SCIENCES, INC. a Florida corporation on behalf of the corporation. They are personally known to me or who has produced \_\_\_\_\_ (type of identification) as identification.

NOTARY'S SEAL:



[Signature]  
NOTARY PUBLIC, STATE OF FLORIDA

LAURA NUNEZ  
(Name of Acknowledger Typed, Printed or Stamped)

GG 943371  
Commission Number



Florida's Warmest Welcome

**CITY OF POMPANO BEACH  
REQUEST FOR LETTERS OF INTEREST  
E-22-20**

**CONTINUING CONTRACT FOR PROFESSIONAL  
ENVIRONMENTAL TESTING**

**RLI OPENING: August 10, 2020 2:00 P.M.  
PURCHASING OFFICE  
1190 N.E. 3RD AVENUE, BUILDING C (Front)  
POMPANO BEACH, FLORIDA 33060**

July 9, 2020

CITY OF POMPANO BEACH, FLORIDA  
REQUEST FOR LETTERS OF INTEREST  
E-20-20

CONTINUING CONTRACT FOR PROFESSIONAL ENVIRONMENTAL TESTING

Pursuant to Florida Statutes Chapter 287.055 "Consultants' Competitive Negotiation Act" the City of Pompano Beach invites professional firms to submit qualifications and experience for consideration to provide professional environmental testing services to the City on a continuing as-needed basis.

The City will receive sealed proposals until **2:00 p.m. (local), August 10, 2020**. Proposals must be submitted electronically through the eBid System on or before the due date/time stated above. Any proposal received after the due date and time specified, will not be considered. Any uncertainty regarding the time a proposal is received will be resolved against the Proposer.

Proposer must be registered on the City's eBid System in order to view the solicitation documents and respond to this solicitation. The complete solicitation document can be downloaded for free from the eBid System as a pdf at: <https://pompanobeachfl.ionwave.net>. The City is not responsible for the accuracy or completeness of any documentation the Proposer receives from any source other than from the eBid System. Proposer is solely responsible for downloading all required documents. A list of proposers will be read aloud in a public forum.

### **Introduction**

The City of Pompano Beach is seeking qualified engineering firms to work on various projects for the City. The projects range in magnitude from small-scale to large or specialized designs.

### **The types of projects to be undertaken may include, but are not limited to:**

- The City's approved Capital Improvement Plan (CIP) maybe found here: [Adopted Capital Improvement Plan FY 2020-2024](#)
- Preparation of Phase I, Phase II, and Phase III assessments
- Roadway, Streetscape or Parking Lot projects.
- Water or Reuse Main projects.
- Gravity Sewer Main projects.
- Force Main projects.
- Lift station/pump station rehabilitation projects.
- Parks and Recreational Facilities.
- Seawall and dock construction and repair.
- Storm Water/Drainage Improvement projects
- Consultation for Emergency Water/Wastewater/Stormwater Repairs.
- Inspection Services for Emergency Water/Wastewater/Stormwater Repairs.
- Canal and lake dredging.
- Grant reimbursement, FAA and FDOT support and compliance.

- SRF support and Davis Bacon Wage Reporting requirements
- Support Services for Remediation
- Demolition Projects

### **Scope of Services**

The City intends to issue multiple contracts to engineering firms to provide continuing professional services to the City for various projects as-needed. Professional services under this contract will be restricted to those required for any project for which construction costs will not exceed \$4 million, and for any study activity for which fees will not exceed \$500,000.00.

### **The scope of services may include, but is not limited to, the following:**

- Prepare preliminary reports and/or alternative recommendations. This may include various types of research, modeling, testing and field data analysis.
- Prepare all required permit applications and submittal packages as required for permit issuance of all agency permits (i.e. Federal, State, County and City)
- Provide project management services for projects, including turbidity monitoring.
- Prepare recommendations and cost estimates for compliance with regulatory requirements.
- Provide project close-out services. This may include preliminary and final acceptance of projects, preparation and approval of punch list items and project certification as required to all permitting agencies.
- Prepare reports for regulatory compliance monitoring and assessments.
- Reporting on endangered animals (turtles and owls)

Firms must have demonstrated and specific experience in coordinating with local, county, state, and federal regulatory agencies as it relates to environmental regulatory requirements.

Additionally, if firms do not have in-house testing capabilities, they must detail the nature and extent of partnerships with a qualified firm or laboratory. Laboratories performing analytical work must be NELAC certified for the analytes of interest and operate under a Laboratory Quality Manual following NELAC requirements. Firms performing environmental sampling or field data collection must have a Field Sampling Quality Manual and follow the current Florida Department of Environmental Protection Standard Operating Procedures.

Firms must have previous municipal experience and must be licensed to practice **Professional Environmental Testing** in the State of Florida, as required by all applicable Florida State Statutes and Board of Professional Regulation.

#### **A. Task/Deliverables**

Tasks and deliverables will be determined per project. Each project shall require a signed Work Authorization (WA) form from the awarded firm to be provided to the City. Forms shall be completed in its entirety and include the agreed upon scope, tasks, schedule, cost, and deliverables for the project. Consultant will be required to provide all applicable insurance requirements.

#### **B. Term of Contract**

The Term of this Contract shall be for an initial period of five (5) years from the date of execution by both the City and the Consultant.

**C. Project Web Requirements:**

1. This project will utilize e-Builder Enterprise™, a web-based project management tool. This web-based application is a collaboration tool, which will allow all project team members continuous access through the Internet to important project data as well as up to the minute decision and approval status information.

e-Builder Enterprise™ is a comprehensive Project and Program Management system that the City will use to manage all project documents, communications and costs between the Lead Consultant, Sub-Consultants, Design Consultants, Contractor and Owner. e-Builder Enterprise™ includes extensive reporting capabilities to facilitate detailed project reporting in a web-based environment that is accessible to all parties and easy to use. Training will be provided for all consultants selected to provide services for the City of Pompano Beach.

2. Lead and Sub-Consultants shall conduct project controls outlined by the Owner, Project Manager, and/or Construction Manager, utilizing e-Builder Enterprise™. **The designated web-based application license(s) shall be provided by the City to the Prime Consultant and Sub-Consultants.** No additional software will be required.

Lead Consultant and Sub-Consultants shall have the responsibility for logging in to the project web site on a daily basis, and as necessary to be kept fully apprised of project developments and required action items. , These may include but are not limited to: Contracts, Contract Exhibits, Contract Amendments, Drawing Issuances, Addenda, Bulletins, Permits, Insurance & Bonds, Safety Program Procedures, Safety Notices, Accident Reports, Personnel Injury Reports, Schedules, Site Logistics, Progress Reports, Correspondence, Daily Logs, Non-Conformance Notices, Quality Control Notices, Punch Lists, Meeting Minutes, Requests for Information, Submittal Packages, Substitution Requests, Monthly Payment Request Applications, Supplemental Instructions, Owner Change Directives, Potential Change Orders, Change Order Requests, Change Orders and the like. All supporting data including but not limited to shop drawings, product data sheets, manufacturer data sheets and instructions, method statements, safety SDS sheets, Substitution Requests and the like will be submitted in digital format via e-Builder Enterprise™.

**D. Local Business Program**

On March 13, 2018, the City Commission approved Ordinance 2018-46, establishing a Local Business Program, a policy to increase the participation of City of Pompano Beach businesses in the City's procurement process.

For purposes of this solicitation, "Local Business" will be defined as follows:

1. **TIER 1 LOCAL VENDOR. POMPANO BEACH BUSINESS EMPLOYING POMPANO BEACH RESIDENTS.** A business entity which has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least ten percent who are residents of the City of Pompano Beach or includes subcontracting commitments to Local Vendors Subcontractors for at least ten percent of the contract value. The permanent place of business may not be a post office box.

The business must be located in a non-residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the City of Pompano Beach for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.

2. **TIER 2 LOCAL VENDOR. BROWARD COUNTY BUSINESS EMPLOYING POMPANO BEACH RESIDENTS OR UTILIZING LOCAL VENDOR SUBCONTRACTORS.** A business entity which has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least 15% who are residents of the City of Pompano Beach or includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value. The permanent place of business may not be a post office box. The business must be located in a non- residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the respective Broward County municipality for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.
3. **LOCAL VENDOR SUBCONTRACTOR. POMPANO BEACH BUSINESS.** A business entity which has maintained a permanent place of business within the city limits of the City of Pompano Beach. The permanent place of business may not be a post office box. The business must be located in a non-residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the City of Pompano Beach for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.

You can view the list of City businesses that have a current Business Tax Receipt on the City's website, and locate local firms that are available to perform the work required by the bid specifications. The business information, sorted by business use classification, is posted on the webpage for the Business Tax Receipt Division: [www.pompanobeachfl.gov](http://www.pompanobeachfl.gov) by selecting the Pompano Beach Business Directory in the Shop Pompano! section.

The City of Pompano Beach is **strongly committed** to insuring the participation of City of Pompano Beach Businesses as contractors and subcontractors for the procurement of goods and services, including labor, materials and equipment. Proposers are required to participate in the City of Pompano Beach's Local Business Program by including, as part of their package, the Local Business Participation Form (Exhibit A,) listing the local businesses that will be used on the contract, and the Letter of Intent Form (Exhibit B) from each local business that will participate in the contract.

**Please note that, while no goals have been established for this solicitation, the City encourages Local Business participation in *all* of its procurements.**

If a Prime Contractor/Vendor is not able to achieve the level of goal attainment of the contract, the Prime Vendor will be requested to demonstrate and document that good faith efforts were made to achieve the goal by providing the Local Business

Unavailability Form (Exhibit C), listing firms that were contacted but not available, and the Good Faith Effort Report (Exhibit D), describing the efforts made to include local business participation in the contract. This documentation shall be provided to the City Commission for acceptance.

The awarded proposer will be required to submit "Local Business Subcontractor Utilization Reports" during projects and after projects have been completed. The reports will be submitted to the assigned City project manager of the project. The Local Business Subcontractor Utilization Report template and instructions have been included in the bid document.

Failure to meet Local Vendor Goal commitments will result in "unsatisfactory" compliance rating. Unsatisfactory ratings may impact award of future projects if a sanction is imposed by the City Commission.

The city shall award a Local Vendor preference based upon vendors, contractors, or subcontractors who are local with a preferences follows:

1. For evaluation purposes, the Tier 1 and Tier 2 businesses shall be a criterion for award in this Solicitation. No business may qualify for more than one tier level.
2. For evaluation purposes, local vendors shall receive the following preferences:
  - a. Tier 1 business as defined by this subsection shall be granted a preference in the amount of five percent of total score.
  - b. Tier 2 business as defined by this subsection shall be granted a preference in the amount of two and one-half percent of total score.
3. It is the responsibility of the awarded vendor/contractor to comply with all Tier 1 and Tier 2 guidelines. The awarded vendor/contractor must ensure that all requirements are met before execution of a contract.

#### **E. Required Proposal Submittal**

Sealed proposals shall be submitted electronically through the eBid System on or before the due date/time stated above. Proposer shall upload response as one (1) file to the eBid System. The file size for uploads is limited to 250 MB. If the file size exceeds 10 MB the response must be split and uploaded as two (2) separate files.

**Information to be included in the proposal:** In order to maintain comparability and expedite the review process, it is required that proposals be organized in the manner specified below, with the sections clearly labeled:

**Title page:**

Show the project name and number, the name of the Proposer's firm, address, telephone number, name of contact person and the date.

**Table of Contents:**

Include a clear identification of the material by section and by page.

**Letter of Transmittal:**

Briefly state the Proposer's understanding of the project and express a positive commitment to provide the services described herein. State the name(s) of the person(s) who will be authorized to make representations for the Proposer, their title(s), office and E-mail addresses and telephone numbers. Please limit this section to two pages.

**Technical Approach:**

Firms or teams shall submit their technical approach to the tasks described in the scope, including details of how each phase of the project would be completed, and how their firm proposes to maintain time schedules and cost controls.

**Schedule:**

Proposer shall provide a timeline that highlights proposed tasks that will meet all applicable deadlines.

**References:**

References for past projects in the tri-county area (Broward, Palm Beach, and Miami-Dade.) Describe the scope of each project in physical terms and by cost, describe the respondent's responsibilities, and provide the contact information (name, email, telephone number) of an individual in a position of responsibility who can attest to respondent's activities in relation to the project.

List any prior projects performed for the City of Pompano Beach.

**Project Team Form:**

Submit a completed "Project Team" form. The purpose of this form is to identify the key members of your team, including any specialty subconsultants.

**Organizational Chart:**

Specifically identify the management plan (if needed) and provide an organizational chart for the team. The proposer must describe at a minimum, the basic approach to these projects, to include reporting hierarchy of staff and sub-consultants, clarify the individual(s) responsible for the co-ordination of separate components of the scope of services.

**Statement of Skills and Experience of Project Team:**

Describe the experience of the entire project team as it relates to the types of projects described in the Scope section of this solicitation. Include the experience of the prime consultants as well as other members of the project team; i.e., additional personnel, sub-consultants, branch office, team members, and other resources anticipated to be utilized for this project. Name specific projects (successfully completed within the past five years) where the team members have performed similar projects previously.

**Resumes of Key Personnel**

Include resumes for key personnel for prime and subconsultants.

**Office Locations:**

Identify the location of the office from which services will be rendered, and the number of professional and administrative staff at the prime office location. Also identify the location of office(s) of the prime and/or sub consultants that may be utilized to support any or all of the professional services listed above and the number of professional and administrative staff at the prime office location.

If firms are situated outside the local area, (Broward, Palm Beach, and Miami-Dade counties) include a brief statement as to whether or not the firm will arrange for a local office during the term of the contract, if necessary.

**Local Businesses:**

Completed Local Business program forms, Exhibits A-D.

NOTE: Form B must be signed by a representative of the subcontractor, NOT of the Prime.

**Litigation:**

Disclose any litigation within the past five (5) years arising out your firm's performance, including status/outcome.

**City Forms:**

The Proposer Information Page Form and any other required forms must be completed and submitted electronically through the City's eBid System. The City reserves the right to request additional information to ensure the proposer is financially solvent and has sufficient financial resources to perform the contract and shall provide proof thereof of its financial solvency. The City may as at its sole discretion ask for additional proof of financial solvency, including additional documents post proposal opening, and prior to evaluation that demonstrates the Proposer's ability to perform the resulting contract and provide the required materials and/or services.

**Reviewed and Audited Financial Statements:**

Proposers shall be financially solvent and appropriately capitalized to be able to service the City for the duration of the contract. Proposers shall provide a complete financial statement of the firm's most recent audited financial statements, indicating organization's financial condition. Must be uploaded to the Response Attachments tab in the eBid System as a separate file titled "Financial Statements" and marked "CONFIDENTIAL."

Financial statements provided shall not be older than twelve (12) months prior to the date of filing this solicitation response. The financial statements are to be reviewed and submitted with any accompanying notes and supplemental information. The City of Pompano Beach reserve the right to reject financial statements in which the financial condition shown is of a date twelve (12) months or more prior to the date of submittals.

The City is a public agency subject to Chapter 119, Florida's Public Records Law and is required to provide the public with access to public records, however, financial statements that are required as submittals to prequalify for a solicitation will be exempt from public disclosure.

The City reserves the right to request additional information to ensure the proposer is financially solvent and has sufficient financial resources to perform the contract and shall provide proof thereof of its financial solvency. The City may as at its sole discretion ask for additional proof of financial solvency, including additional documents post proposal opening, and prior to evaluation that demonstrates the Proposer's ability to perform the resulting contract and provide the required materials and/or services.

A combination of two (2) or more of the following may substitute for audited financial statements:

- 1) Bank letters/statements for the past 3 months
- 2) Balance sheet, profit and loss statement, cash flow report
- 3) IRS returns for the last 2 years
- 4) Letter from CPA showing profits and loss statements (certified)

## F. Insurance

CONTRACTOR shall not commence services under the terms of this Agreement until certification or proof of insurance detailing terms and provisions has been received and approved in writing by the CITY's Risk Manager. If you are responding to a bid and have questions regarding the insurance requirements hereunder, please contact the CITY's Purchasing Department at (954) 786-4098. If the contract has already been awarded, please direct any queries and proof of the requisite insurance coverage to CITY staff responsible for oversight of the subject project/contract.

CONTRACTOR is responsible to deliver to the CITY for timely review and written approval/disapproval Certificates of Insurance which evidence that all insurance required hereunder is in full force and effect and which name on a primary basis, the CITY as an additional insured on all such coverage.

Throughout the term of this Agreement, CITY, by and through its Risk Manager, reserve the right to review, modify, reject or accept any insurance policies required by this Agreement, including limits, coverages or endorsements. CITY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as CITY's review or acceptance of insurance maintained by CONTRACTOR, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by CONTRACTOR under this Agreement.

Throughout the term of this Agreement, CONTRACTOR and all subcontractors or other agents hereunder, shall, at their sole expense, maintain in full force and effect, the following insurance coverages and limits described herein, including endorsements.

1. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. CONTRACTOR further agrees to be responsible for employment, control and conduct of its employees and for any injury sustained by such employees in the course of their employment.

2. Liability Insurance.

(a) Naming the City of Pompano Beach as an additional insured as CITY's interests may appear, on General Liability Insurance only, relative to claims which arise from CONTRACTOR's negligent acts or omissions in connection with Contractor's performance under this Agreement.

(b) Such Liability insurance shall include the following checked types of insurance and indicated minimum policy limits.

**Type of Insurance**

**Limits of Liability**

<b>GENERAL LIABILITY:</b>	Minimum \$1,000,000 Per Occurrence and \$2,000,000 Per Aggregate	
* Policy to be written on a claims incurred basis		
XX comprehensive form	bodily injury and property damage	
<b>XX premises - operations explosion &amp; collapse hazard</b>	<b>bodily injury and property damage</b>	
— underground hazard		
XX products/completed operations hazard	bodily injury and property damage combined	
XX contractual insurance	bodily injury and property damage combined	
XX broad form property damage	bodily injury and property damage combined	
XX independent contractors	personal injury	
XX personal injury		
— sexual abuse/molestation	Minimum \$1,000,000 Per Occurrence and Aggregate	
— liquor legal liability	Minimum \$1,000,000 Per Occurrence and Aggregate	

**AUTOMOBILE LIABILITY:** Minimum \$1,000,000 Per Occurrence and Aggregate. Bodily injury (each person) bodily injury (each accident), Property damage, bodily injury and property damage combined.

- XX comprehensive form
- XX owned
- XX hired
- XX non-owned

**REAL & PERSONAL PROPERTY**

— comprehensive form Agent must show proof they have this coverage.

<b>EXCESS LIABILITY</b>		Per Occurrence	Aggregate
— other than umbrella	bodily injury and property damage combined	\$1,000,000	\$1,000,000

**PROFESSIONAL LIABILITY** Per Occurrence Aggregate

XX \* Policy to be written on a claims made basis \$1,000,000 \$1,000,000

(c) If Professional Liability insurance is required, Contractor agrees the indemnification and hold harmless provisions set forth in the Agreement shall survive the termination or expiration of the Agreement for a period of four (4) years unless terminated sooner by the applicable statute of limitations.

**CYBER LIABILITY**

Per Occurrence Aggregate

__	* Policy to be written on a claims made basis	\$1,000,000	\$1,000,000
__	Network Security / Privacy Liability		
__	Breach Response / Notification Sublimit (minimum limit of 50% of policy aggregate)		
__	Technology Products E&O - \$1,000,000 (only applicable for vendors supplying technology related services and or products)		
__	Coverage shall be maintained in effect during the period of the Agreement and for not less than four (4) years after termination/ completion of the Agreement.		

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3. Employer's Liability. If required by law, CONTRACTOR and all subcontractors shall, for the benefit of their employees, provide, carry, maintain and pay for Employer's Liability Insurance in the minimum amount of One Hundred Thousand Dollars (\$100,000.00) per employee, Five Hundred Thousand Dollars (\$500,000) per aggregate.

4. Policies: Whenever, under the provisions of this Agreement, insurance is required of the CONTRACTOR, the CONTRACTOR shall promptly provide the following:

- (a) Certificates of Insurance evidencing the required coverage;
- (b) Names and addresses of companies providing coverage;
- (c) Effective and expiration dates of policies; and

(d) A provision in all policies affording CITY thirty (30) days written notice by a carrier of any cancellation or material change in any policy.

5. Insurance Cancellation or Modification. Should any of the required insurance policies be canceled before the expiration date, or modified or substantially modified, the issuing company shall provide thirty (30) days written notice to the CITY.

6. Waiver of Subrogation. CONTRACTOR hereby waives any and all right of subrogation against the CITY, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONTRACTOR shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy which includes a condition to the policy not specifically prohibiting such an endorsement, or voids coverage should CONTRACTOR enter into such an agreement on a pre-loss basis.

**G. Selection/Evaluation Process**

A Selection/Evaluation Committee will be appointed to select the most qualified firm(s). The Selection/Evaluation Committee will present their findings to the City Commission.

Proposals will be evaluated using the following criteria.

<b>Line</b>	<b>Criteria</b>	<b>Point Range</b>
1	<p>Prior experience of the firm with projects of similar size and complexity:</p> <ul style="list-style-type: none"> <li>a. Number of similar projects</li> <li>b. Complexity of similar projects</li> <li>c. References from past projects performed by the firm</li> <li>d. Previous projects performed for the City (provide description)</li> <li>e. Litigation within the past 5 years arising out of firm's performance (list, describe outcome)</li> </ul>	0-15
2	<p>Qualifications of personnel including sub consultants:</p> <ul style="list-style-type: none"> <li>a. Organizational chart for project</li> <li>b. Number of technical staff</li> <li>c. Qualifications of technical staff: <ul style="list-style-type: none"> <li>(1) Number of licensed staff</li> <li>(2) Education of staff</li> <li>(3) Experience of staff on similar projects</li> </ul> </li> </ul>	0-15
3	<p>Proximity of the nearest office to the project location:</p> <ul style="list-style-type: none"> <li>a. Location</li> <li>b. Number of staff at the nearest office</li> </ul>	0-15
4	<p>Current and Projected Workload</p> <p>Rating is to reflect the workload (both current and projected) of the firm, staff assigned, and the percentage availability of the staff member assigned. Respondents which fail to note both existing and projected workload conditions and percentage of availability of staff assigned shall receive zero (0) points</p>	0-15
5	<p>Demonstrated Prior Ability to Complete Project on Time</p> <p>Respondents will be evaluated on information provided regarding the firm's experience in the successful completion and steadfast conformance to similar project schedules. Provide an example of successful approaches utilized to achieve a timely project completion. Respondents who demonstrate the ability to complete projects on time shall receive more points.</p>	0-15
6	<p>Demonstrated Prior Ability to Complete Project on Budget</p> <p>Proposers will be evaluated on their ability to adhere to initial design budgets. Examples provided should show a comparison between initial negotiated task costs and final completion costs. Respondents should explain in detail any budgetary overruns due to scope modifications. Respondents which fail to provide schedule and budget information as requested will receive zero (0) points.</p>	0-15
7	<p>Is the firm a certified minority business enterprise as defined by the Florida Small and Minority Business Assistance Act of 1985? (Certification of any sub-contractors should also be included with the response.)</p>	0-10

Additional 0-5% for Tier1/Tier2 Local Business will be calculated on combined scoring totals of each company.

**NOTE:**

Financial statements that are required as submittals to prequalify for a solicitation will be exempt from public disclosure; however, financial statements submitted to prequalify for a solicitation, and are not required by the City, may be subject to public disclosure.

Value of Work Previously Awarded to Firm (Tie-breaker) - In the event of a tie, the firm with the lowest value of work as a prime contractor on City of Pompano Beach projects within the last five years will receive the higher ranking, the firm with the next lowest value of work shall receive the next highest ranking, and so on. The analysis of past work will be based on the City's Purchase Order and payment records.

The Committee has the option to use the above criteria for the initial ranking to short-list Proposers and to use an ordinal ranking system to score short-listed Proposers following presentations (if deemed necessary) with a score of "1" assigned to the short-listed Proposer deemed most qualified by the Committee.

Each firm should submit documentation that evidences the firm's capability to provide the services required for the Committee's review for short listing purposes. After an initial review of the Proposals, the City may invite Proposers for an interview to discuss the proposal and meet firm representatives, particularly key personnel who would be assigned to the project. Should interviews be deemed necessary, it is understood that the City shall incur no costs as a result of this interview, nor bear any obligation in further consideration of the submittal.

When more than three responses are received, the committee shall furnish the City Commission (for their approval) a listing, in ranked order, of no fewer than three firms deemed to be the most highly qualified to perform the service. If three or less firms respond to the Solicitation, the list will contain the ranking of all responses.

The City Commission has the authority to (including, but not limited to); approve the recommendation; reject the recommendation and direct staff to re-advertise the solicitation; or, review the responses themselves and/or request oral presentations and determine a ranking order that may be the same or different from what was originally presented to the City Commission.

Value of Work Previously Awarded to Firm (Tie-breaker) - In the event of a tie, the firm with the lowest value of work as a prime contractor on City of Pompano Beach projects within the last five years will receive the higher ranking, the firm with the next lowest value of work shall receive the next highest ranking, and so on. The analysis of past work will be based on the City's Purchase Order and payment records.

**H. Hold Harmless and Indemnification**

Proposer covenants and agrees that it will indemnify and hold harmless the City and all of its officers, agents, and employees from any claim, loss, damage, cost, charge or expense arising out of any act, action, neglect or omission by the Proposer, whether direct or indirect, or whether to any person or property to which the City or said parties may be

subject, except that neither the Proposer nor any of its subcontractors will be liable under this section for damages arising out of injury or damage to persons or property directly caused by or resulting from the sole negligence of the City or any of its officers, agents or employees.

**I. Right to Audit**

Contractor's records which shall include but not be limited to accounting records, written policies and procedures, computer records, disks and software, videos, photographs, subcontract files (including proposals of successful and unsuccessful bidders), originals estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to this contract (all the foregoing hereinafter referred to as "records") shall be open to inspection and subject to audit and/or reproduction, during normal working hours, by Owner's agent or its authorized representative to the extent necessary to adequately permit evaluation and verification of any invoices, payments or claims submitted by the contractor or any of his payees pursuant to the execution of the contract. Such records subject to examination shall also include, but not be limited to, those records necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with this contract.

For the purpose of such audits, inspections, examinations and evaluations, the Owner's agent or authorized representative shall have access to said records from the effective date of this contract, for the duration of the Work, and until 5 years after the date of final payment by Owner to Consultant pursuant to this contract.

Owner's agent or its authorized representative shall have access to the Contractor's facilities, shall have access to all necessary records, and shall be provided adequate and appropriate work space, in order to conduct audits in compliance with this article. Owner's agent or its authorized representative shall give auditees reasonable advance notice of intended audits.

Contractor shall require all subcontractors, insurance agents, and material suppliers (payees) to comply with the provisions of this article by insertion of the requirements hereof in any written contract agreement. Failure to obtain such written contracts which include such provisions shall be reason to exclude some or all of the related payees' costs from amounts payable to the Contractor pursuant to this contract.

**J. Retention of Records and Right to Access**

The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law, as amended. Specifically, the Contractor shall:

1. Keep and maintain public records required by the City in order to perform the service;
2. Upon request from the City's custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a

reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law;

3. Ensure that public records that are exempt or that are confidential and exempt from public record requirements are not disclosed except as authorized by law;

4. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Contractor does not transfer the records to the City; and

5. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Contractor, or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.

**K. Communications**

No negotiations, decisions, or actions shall be initiated or executed by the firm as a result of any discussions with any City employee. Only those communications, which are in writing from the City, may be considered as a duly authorized expression on behalf of the City. In addition, only communications from firms that are signed and in writing will be recognized by the City as duly authorized expressions on behalf of firms.

**L. No Discrimination**

There shall be no discrimination as to race, sex, color, age, religion, or national origin in the operations conducted under any contract with the City.

**M. Independent Contractor**

The selected firm will conduct business as an independent contractor under the terms of this contract. Personnel services provided by the firm shall be by employees of the firm and subject to supervision by the firm, and not as officers, employees, or agents of the City. Personnel policies, tax responsibilities, social security and health insurance, employee benefits, purchasing policies and other similar administrative procedures applicable to services rendered under this agreement shall be those of the firm.

**N. Staff Assignment**

The City of Pompano Beach reserves the right to approve or reject, for any reasons, Proposer's staff assigned to this project at any time. Background checks may be required.

**O. Contract Terms**

The contract resulting from this Solicitation shall include, but not be limited to the following terms:

The contract shall include as a minimum, the entirety of this Solicitation document, together with the successful Proposer's proposal. Contract shall be prepared by the City of Pompano Beach City Attorney.

If the City of Pompano Beach defends any claim, demand, cause of action, or lawsuit arising out of any act, action, negligent acts or negligent omissions, or willful misconduct of the contractor, its employees, agents or servants during the performance of the contract, whether directly or indirectly, contractor agrees to reimburse the City of Pompano Beach for all expenses, attorney's fees, and court costs incurred in defending such claim, cause of action or lawsuit.

**P. Waiver**

It is agreed that no waiver or modification of the contract resulting from this Solicitation, or of any covenant, condition or limitation contained in it shall be valid unless it is in writing and duly executed by the party to be charged with it, and that no evidence of any waiver or modification shall be offered or received in evidence in any proceeding, arbitration, or litigation between the parties arising out of or affecting this contract, or the right or obligations of any party under it, unless such waiver or modification is in writing, duly executed as above. The parties agree that the provisions of this paragraph may not be waived except by a duly executed writing.

**Q. Survivorship Rights**

This contract resulting from this Solicitation shall be binding on and inure to the benefit of the respective parties and their executors, administrators, heirs, personal representative, successors and assigns.

**R. Termination**

The contract resulting from this Solicitation may be terminated by the City of Pompano Beach without cause upon providing contractor with at least sixty (60) days prior written notice.

Should either party fail to perform any of its obligations under the contract resulting from this Solicitation for a period of thirty (30) days after receipt of written notice of such failure, the non-defaulting part will have the right to terminate the contract immediately upon delivery of written notice to the defaulting part of its election to do so. The foregoing rights of termination are in addition to any other rights and remedies that such party may have.

**S. Manner of Performance**

Proposer agrees to perform its duties and obligations under the contract resulting from this Solicitation in a professional manner and in accordance with all applicable local, federal and state laws, rules and regulations.

Proposer agrees that the services provided under the contract resulting from this Solicitation shall be provided by employees that are educated, trained and experienced, certified and licensed in all areas encompassed within their designated duties. Proposer

agrees to furnish the City of Pompano Beach with all documentation, certification, authorization, license, permit, or registration currently required by applicable laws or rules and regulations. Proposer further certifies that it and its employees are now in and will maintain good standing with such governmental agencies and that it and its employees will keep all license, permits, registration, authorization or certification required by applicable laws or regulations in full force and effect during the term of this contract. Failure of Proposer to comply with this paragraph shall constitute a material breach of contract.

**T. Acceptance Period**

Proposals submitted in response to this Solicitation must be valid for a period no less than ninety (90) days from the closing date of this solicitation.

**U. Conditions and Provisions**

The completed proposal (together with all required attachments) must be submitted electronically to City on or before the time and date stated herein. All Proposers, by electronic submission of a proposal, shall agree to comply with all of the conditions, requirements and instructions of this solicitation as stated or implied herein. All proposals and supporting materials submitted will become the property of the City.

Proposer's response shall not contain any alteration to the document posted other than entering data in spaces provided or including attachments as necessary. By submission of a response, Proposer affirms that a complete set of bid documents was obtained from the eBid System or from the Purchasing Division only and no alteration of any kind has been made to the solicitation. Exceptions or deviations to this proposal may not be added after the submittal date.

All Proposers are required to provide all information requested in this solicitation. Failure to do so may result in disqualification of the proposal.

The City reserves the right to postpone or cancel this solicitation, or reject all proposals, if in its sole discretion it deems it to be in the best interest of the City to do so.

The City reserves the right to waive any technical or formal errors or omissions and to reject all proposals, or to award contract for the items herein, in part or whole, if it is determined to be in the best interests of the City to do so.

The City shall not be liable for any costs incurred by the Proposer in the preparation of proposals or for any work performed in connection therein.

**V. Standard Provisions**

1. Governing Law

Any agreement resulting from this Solicitation shall be governed by the laws of the State of Florida, and the venue for any legal action relating to such agreement will be in Broward County, Florida.

2. Licenses

In order to perform public work, the successful Proposer shall:

Be licensed to do business in Florida, if an entity, and hold or obtain such Contractor' and Business Licenses if required by State Statutes or local ordinances.

3. Conflict Of Interest

For purposes of determining any possible conflict of interest, each Proposer must disclose if any Elected Official, Appointed Official, or City Employee is also an owner, corporate officer, or an employee of the firm. If any Elected Official, Appointed Official, or City Employee is an owner, corporate officer, or an employee, the Proposer must file a statement with the Broward County Supervisor of Elections pursuant to §112.313, Florida Statutes.

4. Drug Free Workplace

The selected firm(s) will be required to verify they will operate a "Drug Free Workplace" as set forth in Florida Statute, 287.087.

5. Public Entity Crimes

A person or affiliate who has been placed on the convicted vendor list following a conviction for public entity crime may not submit a proposal on a contract to provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute, Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

6. Patent Fees, Royalties, And Licenses

If the selected Proposer requires or desires to use any design, trademark, device, material or process covered by letters of patent or copyright, the selected Proposer and his surety shall indemnify and hold harmless the City from any and all claims for infringement by reason of the use of any such patented design, device, trademark, copyright, material or process in connection with the work agreed to be performed and shall indemnify the City from any cost, expense, royalty or damage which the City may be obligated to pay by reason of any infringement at any time during or after completion of the work.

7. Permits

The selected Proposer shall be responsible for obtaining all permits, licenses, certifications, etc., required by federal, state, county, and municipal laws, regulations, codes, and ordinances for the performance of the work required in these specifications and to conform to the requirements of said legislation.

8. Familiarity With Laws

It is assumed the selected firm(s) will be familiar with all federal, state and local laws, ordinances, rules and regulations that may affect its services pursuant to this Solicitation. Ignorance on the part of the firm will in no way relieve the firm from responsibility.

9. Withdrawal Of Proposals

A firm may withdraw its proposal without prejudice no later than the advertised deadline for submission of proposals by written communication to the General Services Department, 1190 N.E. 3<sup>rd</sup> Avenue, Building C, Pompano Beach, Florida 33060.

10. Composition Of Project Team

Firms are required to commit that the principals and personnel named in the proposal will perform the services throughout the contractual term unless otherwise provided for by way of a negotiated contract or written amendment to same executed by both parties. No diversion or substitution of principals or personnel will be allowed unless a written request that sets forth the qualifications and experience of the proposed replacement(s) is submitted to and approved by the City in writing.

11. Invoicing/Payment

All invoices should be sent to City of Pompano Beach, Accounts Payable, P.O. Drawer 1300, Pompano Beach, Florida, 33061. In accordance with Florida Statutes, Chapter 218, payment will be made within 45 days after receipt of a proper invoice.

12. Public Records

- a. The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law, as amended. Specifically, the Contractor shall:
  - i. Keep and maintain public records required by the City in order to perform the service;
  - ii. Upon request from the City's custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law;
  - iii. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Contractor does not transfer the records to the City; and

- iv. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Contractor, or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.
- b. Failure of the Contractor to provide the above described public records to the City within a reasonable time may subject Contractor to penalties under 119.10, Florida Statutes, as amended.

## **PUBLIC RECORDS CUSTODIAN**

**IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:**

**CITY CLERK  
100 W. Atlantic Blvd., Suite 253  
Pompano Beach, Florida 33060  
(954) 786-4611  
[RecordsCustodian@copbfl.com](mailto:RecordsCustodian@copbfl.com)**

### **W. Questions and Communication**

All questions regarding the Solicitation are to be submitted using the Questions feature in the eBid System. Questions must be received at least seven (7) calendar days before the scheduled solicitation opening. Oral and other interpretations or clarifications will be without legal effect. Addenda will be posted to the solicitation in the eBid System, and it is the Proposer's responsibility to obtain all addenda before submitting a response to the solicitation.

### **X. Addenda**

The issuance of a written addendum or posting of an answer in response to a question submitted using the Questions feature in the eBid System are the only official methods whereby interpretation, clarification, or additional information can be given. If any addenda are issued to this solicitation the addendum will be issued via the eBid System. It shall be the responsibility of each Proposer, prior to submitting their response, to contact the City Purchasing Office at (954) 786-4098 to determine if addenda were issued and to make

such addenda a part of their proposal. Addenda will be posted to the solicitation in the eBid System.

Y. **Contractor Performance Report**

The City will utilize the Contractor Performance Report to monitor and record the successful proposer's performance for the work specified by the contract. The Contractor Performance Report has been included as an exhibit to this solicitation.

**COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRETY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.**

***PROPOSER INFORMATION PAGE***

\_\_\_\_\_, \_\_\_\_\_  
(number) (Title)

To: The City of Pompano Beach, Florida

The below named company hereby agrees to furnish the proposed services under the terms stated subject to all instructions, terms, conditions, specifications, addenda, legal advertisement, and conditions contained in the solicitation. I have read the solicitation and all attachments, including the specifications, and fully understand what is required. By submitting this proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this proposal.

Proposal submitted by:

Name (printed) \_\_\_\_\_ Title \_\_\_\_\_

Company (Legal Registered) \_\_\_\_\_

Federal Tax Identification Number \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

Email Address \_\_\_\_\_

**COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRETY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.**

**PROJECT TEAM**

SOLICITATION NUMBER \_\_\_\_\_

Federal I.D.# \_\_\_\_\_

**PRIME**

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	_____	_____	_____
Project Manager	_____	_____	_____
Asst. Project Manager	_____	_____	_____
Other Key Member	_____	_____	_____
Other Key Member	_____	_____	_____

**SUB-CONSULTANT**

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying	_____	_____
Landscaping	_____	_____
Engineering	_____	_____
Other Key Member	_____	_____
Other Key Member	_____	_____
Other Key Member	_____	_____

(use attachments if necessary)

**COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRETY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.**

**VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS**

Respondent Vendor Name: \_\_\_\_\_

Vendor FEIN: \_\_\_\_\_

Section 287.135, Florida Statutes, prohibits agencies from contracting with companies, for goods or services over \$1,000,000, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. Further, Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to sign electronically on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs.

I Certify

**Exhibit – Contractor Performance Report**



**City of Pompano Beach, Purchasing Division  
1190 N.E. 3rd Avenue, Building C  
Pompano Beach, Florida, 33060**

**CITY OF POMPANO BEACH  
CONTRACTOR PERFORMANCE REPORT**

1. Report Period: from \_\_\_\_\_ to \_\_\_\_\_

2. Contract Period: from \_\_\_\_\_ to \_\_\_\_\_

3. Bid# & or P.O.#: \_\_\_\_\_

4. Contractor Name: \_\_\_\_\_

5. City Department: \_\_\_\_\_

6. Project Manager: \_\_\_\_\_

7. Scope of Work (Service Deliverables): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Exhibit – Contractor Performance Report

CATEGORY	RATING	COMMENTS
<b>1. Quality Assurance/Quality Control</b> - Product/Services of high quality - Proper oversight - Communication	Poor =1 Satisfactory =2 Excellent =3	
<b>2. Record Keeping</b> -Accurate record keeping -Proper invoicing -Testing results complete	Poor =1 Satisfactory =2 Excellent =3	
<b>3. Close-Out Activities</b> - Restoration/Cleanup - Deliverables met - Punch list items addressed	Poor =1 Satisfactory =2 Excellent =3	
<b>4. Customer Service</b> - City Personnel and Residents - Response time - Communication	Poor =1 Satisfactory =2 Excellent =3	
<b>5. Cost Control</b> - Monitoring subcontractors - Change-orders - Meeting budget	Poor =1 Satisfactory =2 Excellent =3	
<b>6. Construction Schedule</b> - Adherence to schedule - Time-extensions - Efficient use of resources	Poor =1 Satisfactory =2 Excellent =3	
<b>SCORE</b>	_____	<b>ADD ABOVE RATINGS/DIVIDE TOTAL BY NUMBER OF CATEGORIES BEING RATED</b>

#### **RATINGS**

**Poor Performance (1.0 – 1.59):** Marginally responsive, effective and/or efficient; delays require significant adjustments to programs; key employees marginally capable; customers somewhat satisfied.

**Satisfactory Performance (1.6 – 2.59):** Generally responsive, effective and/or efficient; delays are excusable and/or results in minor program adjustments; employees are capable and satisfactorily providing service without intervention; customers indicate satisfaction.

**Excellent Performance (2.6 – 3.0):** Immediately responsive; highly efficient and/or effective; no delays; key employees are experts and require minimal direction; customers expectations are exceeded.



## City of Pompano Beach Florida

### Local Business Subcontractor Utilization Report

Project Name <sup>(1)</sup>		Contract Number and Work Order Number (if applicable) <sup>(2)</sup>	
Report Number <sup>(3)</sup>	Reporting Period <sup>(4)</sup> to	Local Business Contract Goal <sup>(5)</sup>	Estimated Contract Completion Date <sup>(6)</sup>
Contractor Name <sup>(7)</sup>		Contractor Telephone Number <sup>(8)</sup> ( ) -	Contractor Email Address <sup>(9)</sup>
Contractor Street Address <sup>(10)</sup>	Project Manager Name <sup>(11)</sup>	Project Manager Telephone Number <sup>(12)</sup> ( ) -	Project Manager Email Address <sup>(13)</sup>

<b>Local Business Payment Report</b>						
Federal Identification Number <sup>(14)</sup>	Local Subcontractor Business Name <sup>(15)</sup>	Description of Work <sup>(16)</sup>	Project Amount <sup>(17)</sup>	Amount Paid this Reporting Period <sup>(18)</sup>	Invoice Number <sup>(19)</sup>	Total Paid to Date <sup>(20)</sup>
<b>Total Paid to Date for All Local Business Subcontractors <sup>(21)</sup> \$</b>						<b>0.00</b>

**I certify that the above information is true to the best of my knowledge.**

Contractor Name – Authorized Personnel (print) <sup>(22)</sup>	Contractor Name – Authorized Personnel (sign) <sup>(23)</sup>	Title <sup>(24)</sup>	Date <sup>(25)</sup>
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**Local Business Subcontractor Utilization Report Instructions**

- Box (1) Project Name** – Enter the entire name of the project.
- Box (2) Contract Number (work order)** – Enter the contract number and the work order number, if applicable (i.e., 4600001234, and if work order contract include work order number – 4600000568 WO 01).
- Box (3) Report Number** - Enter the Local Business Subcontractor Utilization Report number. Reports must be in a numerical series (i.e., 1, 2, 3).
- Box (4) Reporting Period** - Enter the beginning and end dates this report covers (i.e., 10/01/2016 – 11/01/2016).
- Box (5) Local Contract Goal** - Enter the Local Contract Goal percentage on entire contract.
- Box (6) Contract Completion Date** - Enter the expiration date of the contract, (not work the order).
- Box (7) Contractor Name** - Enter the complete legal business name of the Prime Contractor.
- Box (8) Contractor Telephone Number** - Enter the telephone number of the Prime Contractor.
- Box (9) Contractor Email Address** - Enter the email address of the Prime Contractor.
- Box (10) Contractor Street Address** – Enter the mailing address of the Prime Contractor.
- Box (11) Project Manager Name** - Enter the name of the Project Manager for the Prime Contractor on the project.
- Box (12) Project Manager Telephone Number** – Enter the direct telephone number of the Prime Contractor's Project Manager.
- Box (13) Project Manager Email Address** – Enter the email address of the Prime Contractor's Project Manager.
- Box (14) Federal Identification Number** – Enter the federal identification number of the Local Subcontractor(s).
- Box (15) Local Subcontractor Business Name** – Enter the complete legal business name of the Local Subcontractor(s).
- Box (16) Description of Work** – Enter the type of work being performed by the Local Subcontractor(s) (i.e., electrical services).
- Box (17) Project Amount** – Enter the dollar amount allocated to the Local Subcontractor(s) for the entire project (i.e., amount in the subcontract agreement).

- Box (18) Amount Paid this Reporting Period** – Enter the total amount paid to the Local Subcontractor(s) during the reporting period.
- Box (19) Invoice Number** – Enter the Local Subcontractor's invoice number related to the payment reported this period.
- Box (20) Total Paid to Date** – Enter the total amount paid to the Local Subcontractor(s) to date.
- Box (21) Total Paid to Date for All Local Subcontractor(s)** – Enter the total dollar amount paid to date to all Local Subcontractors listed on the report.
- Box (22) Contractor Name Authorized Personnel (print)** – Print the name of the employee that is authorized to execute the Local Subcontractor Utilization Report.
- Box (23) Contractor Name Authorized Personnel (sign)** – Signature of authorized employee to execute the Local Subcontractor Utilization Report.
- Box (24) Title** – Enter the title of authorized employee completing the Local Subcontractor Utilization Report.
- Box (25) Date** – Enter the date of submission of the Local Subcontractor Utilization Report to the City.





LOCAL BUSINESS EXHIBIT "C"  
LOCAL BUSINESS UNAVAILABILITY FORM

Solicitation # \_\_\_\_\_

I, \_\_\_\_\_  
(Name and Title)

of \_\_\_\_\_, certify that on the \_\_\_\_\_ day of

\_\_\_\_\_, \_\_\_\_\_, I invited the following LOCAL BUSINESS(es) to bid work  
(Month) (Year)

items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Said Local Businesses:

- \_\_\_ Did not bid in response to the invitation
- \_\_\_ Submitted a bid which was not the low responsible bid
- \_\_\_ Other: \_\_\_\_\_

Name and Title: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Attach additional documents as available.

LOCAL BUSINESS EXHIBIT "C"

LOCAL BUSINESS EXHIBIT "D"  
GOOD FAITH EFFORT REPORT LOCAL BUSINESS PARTICIPATION

Solicitation # \_\_\_\_\_

1. What portions of the contract have you identified as Local Business opportunities?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Did you send written notices to Local Businesses?

\_\_\_\_ Yes      \_\_\_\_ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

\_\_\_\_ Yes      \_\_\_\_ No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

\_\_\_\_\_  
\_\_\_\_\_

7. List the Local Businesses you will utilize and subcontract amount.

_____	\$ _____
_____	\$ _____
_____	\$ _____

8. Other comments: \_\_\_\_\_

\_\_\_\_\_

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LOCAL BUSINESS EXHIBIT "D"

# Online Questions & Answers

## Event Information

Number: E-22-20  
 Title: Continuing Contracts for Professional Environmental Testing Services  
 Type: Request for Letters of Interest  
 Issue Date: 7/9/2020  
 Question Deadline: 8/3/2020 05:00 PM (ET)  
 Response Deadline: 8/24/2020 02:00 PM (ET)  
 Notes: Pursuant to Florida Statutes Chapter 287.055 "Consultants' Competitive Negotiation Act" the City of Pompano Beach invites professional firms to submit qualifications and experience for consideration to provide professional environmental testing services to the City on a continuing as-needed basis.

The City will receive sealed proposals until **2:00 p.m. (local), August 10, 2020.** Proposals must be submitted electronically through the eBid System on or before the due date/time stated above. Any proposal received after the due date and time specified, will not be considered. Any uncertainty regarding the time a proposal is received will be resolved against the Proposer.

Proposer must be registered on the City's eBid System in order to view the solicitation documents and respond to this solicitation. The complete solicitation document can be downloaded for free from the eBid System as a pdf at: <https://pompanobeachfl.ionwave.net>. The City is not responsible for the accuracy or completeness of any documentation the Proposer receives from any source other than from the eBid System. Proposer is solely responsible for downloading all required documents. A list of proposers will be read aloud in a public forum.

## Published Questions

<b>Question</b>	Is a firm allowed to submit as both prime and on another team (in which another firm is submitting as prime)?
<b>Answer</b>	Firms may submit specialty subconsultants on the project team form. During the preparation of a Task Order, the City may choose to use a professional firm with an active City contract to perform subconsultant work, proposed by the prime firm.
<b>Asked</b>	8/3/2020 11:24 AM (ET)

<b>Question</b>	How many references does the prime firm need to provide? Can the prime use reference from our subcontractors.
<b>Answer</b>	Two to three (maximum) references will be sufficient. A firm may NOT use the references of their subcontractors.
<b>Asked</b>	7/28/2020 03:28 PM (ET)

<b>Question</b>	Section Y – Contractor Performance Report. If Contractor Performance Report is to be submitted with the proposal, is it to be used in the reference section. If so how many references do we need. Please confirm this form is to be used once the contract is awarded and is only provided as an exhibit for informational purposes.
<b>Answer</b>	Do not include the contractor performance report in your proposal. This informational exhibit's inclusion in the solicitation is the City's notice to the would-be selected firms that their performance will be tracked.
<b>Asked</b>	7/28/2020 03:23 PM (ET)
<b>Question</b>	Surveying and Landscaping is not listed in the Scope of Services; however, they are listed on the Project Team form. If Landscaping is required, are you referring to Landscape Architecture services?
<b>Answer</b>	This RLI is requesting information on Professional Environmental testing. Please note the City is advertising individual RLI's for Professional Civil Engineering, CEI, Landscape Architectural Services, and Professional Surveying.
<b>Asked</b>	7/27/2020 03:15 PM (ET)
<b>Question</b>	On the Local Business Exhibit "B", Local Business Letter of Intent to Perform as a Local Subcontractor, it asks for a price amount. Since the projects and scopes of work to be assigned are not known at this time, can we state "To Be Determined" (TBD) on the form?
<b>Answer</b>	Yes.
<b>Asked</b>	7/16/2020 02:48 PM (ET)
<b>Question</b>	Does the Local Business Subcontractor Utilization Report have to be included with the RFP Response or will this report be utilized once the contract is awarded?
<b>Answer</b>	Do not include the local business subcontractor utilization report in your proposal. Its inclusion in the solicitation is the City's notice to the would-be selected firms that their local business commitments will be tracked.
<b>Asked</b>	7/16/2020 02:46 PM (ET)
<b>Question</b>	Section Y – Contractor Performance Report. Please confirm this form is to be used once the contract is awarded and is only provided as an exhibit for informational purposes.
<b>Answer</b>	Do not include the contractor performance report in your proposal. This informational exhibit's inclusion in the solicitation is the City's notice to the would-be selected firms that their performance will be tracked.
<b>Asked</b>	7/16/2020 11:10 AM (ET)

<b>Question</b>	Section G – Selection/Evaluation Process. The RFP states Current and Projected Workload is listed as one of the Selection Criteria; however, there is not a designated section for the current workload. Please indicate where this should be discussed in, level of detail and describe how this will be evaluated.
<b>Answer</b>	Incorporate this information at your descension. The evaluation is discussed in Section G, Item #4.
<b>Asked</b>	7/16/2020 11:09 AM (ET)
<b>Question</b>	Section E – Required Proposal Submittal – References. The RFP state that the propose list any prior projects performed for the City of Pompano Beach. What is the timeframe for the list of projects, what detail needs to be provided (i.e., name of project, completion year, cost, etc.). Is this being used to show current workload with the City? Please clarify.
<b>Answer</b>	Please limit the list to projects completed in the past 5 years. Project detail should be provided for each project performed in the City of Pompano Beach. Current projects which have not been completed should be included in the current project workload (Section G).
<b>Asked</b>	7/16/2020 11:09 AM (ET)
<b>Question</b>	Section E – Required Proposal Submittal – References. The RFP does not state the specific number of references that are required. Please clarify.
<b>Answer</b>	Two to three (maximum) references will be sufficient.
<b>Asked</b>	7/16/2020 11:09 AM (ET)
<b>Question</b>	Section E – Required Proposal Submittal – Schedule. For the Schedule section, the RFP requests the proposer shall provide a timeline that highlights proposed tasks that will meet all applicable deadlines. Each scope of work / types of projects would entail unique, project specific tasks; therefore, please elaborate on what type(s) of timelines you are referring to. Would this be one generic timeline?
<b>Answer</b>	Firms awarded a contract will be required to provide a detailed schedule during the issuance of a task order. For the RLI, please provide a technical approach on how your firm proposes to maintain a schedule on a task order.
<b>Asked</b>	7/16/2020 11:08 AM (ET)
<b>Question</b>	Project Team Form. On the Project Team form, there are only two blank lines for “Other Key Member” under PRIME section and only three blank lines under SUB-CONSULTANT section. Please clarify that the proposer can add additional “Other Key Member” lines to the form for both the PRIME and SUB-CONSULTANT?
<b>Answer</b>	Firms may submit specialty subconsultants on the project team form. During the preparation of a Task Order, the City may choose to use a professional firm with an active City contract to perform subconsultant work, proposed by the prime firm.
<b>Asked</b>	7/16/2020 11:08 AM (ET)

<b>Question</b>	Please clarify if the City is requesting us to describe our firm's environmental engineering services related to the types of projects or is the City looking for experience performing the actual services listed under Introduction (i.e. environmental engineering services related to parks and recreational facilities or actual design and/or construction of parks and recreational facilities)?
<b>Answer</b>	This RLI is requesting information on Professional Environmental testing. Please note the City is advertising individual RLI's for Professional Civil Engineering, CEI, Landscape Architectural Services, and Professional Surveying. Construction is not part of this RLI.
<b>Asked</b>	7/16/2020 11:08 AM (ET)

<b>Question</b>	Scope of Services. Under "Scope of Services", the RFP states "The scope of services may include, but is not limited to, the following:" •Prepare preliminary reports and/or alternative recommendations. This may include various types of research, modeling, testing and field data analysis. •Prepare all required permit applications and submittal packages as required for permit issuance of all agency permits (i.e. Federal, State, County and City) •Provide project management services for projects, including turbidity monitoring. •Prepare recommendations and cost estimates for compliance with regulatory requirements. •Provide project close-out services. This may include preliminary and final acceptance of projects, preparation and approval of punch list items and project certification as required to all permitting agencies. •Prepare reports for regulatory compliance monitoring and assessments. •Reporting on endangered animals (turtles and owls)
<b>Answer</b>	The RLI contains a list of services where the City may require professional environmental testing.
<b>Asked</b>	7/16/2020 11:08 AM (ET)

<b>Question</b>	Introduction: The RFP says, "The types of projects to be undertaken may include, but are not limited to: • The City's approved Capital Improvement Plan (CIP) maybe found here: Adopted Capital Improvement Plan FY 2020-2024 • Preparation of Phase I, Phase II, and Phase III assessments • Roadway, Streetscape or Parking Lot projects. • Water or Reuse Main projects. • Gravity Sewer Main projects. • Force Main projects. • Lift station/pump station rehabilitation projects. • Parks and Recreational Facilities. • Seawall and dock construction and repair. • Storm Water/Drainage Improvement projects • Consultation for Emergency Water/Wastewater/Stormwater Repairs. • Inspection Services for Emergency Water/Wastewater/ Stormwater Repairs. • Canal and lake dredging. • Grant reimbursement, FAA and FDOT support and compliance. • SRF support and Davis Bacon Wage Reporting requirements • Support Services for Remediation • Demolition Projects
<b>Answer</b>	The RLI contains a list of project types where the City may require professional environmental testing.
<b>Asked</b>	7/16/2020 11:06 AM (ET)

<b>Question</b>	Can you please list who the incumbent firms for this contract are?
<b>Answer</b>	GFA International, Inc., Professional Service Inc., E Sciences, Inc.
<b>Asked</b>	7/14/2020 11:43 AM (ET)

<b>Question</b>	Who will be on the selection committee?
<b>Answer</b>	Qualified City staff to be determined.
<b>Asked</b>	7/14/2020 08:42 AM (ET)

<b>Question</b>	What are amount of awards per consultant under the previous contract?
<b>Answer</b>	GFA \$24,000.00 E Sciences \$297,872.54 Professional Services \$31,290 The City reserves the right to award contracts in its best interest. Past business is no indication of future contract awards.
<b>Asked</b>	7/14/2020 08:41 AM (ET)

<b>Question</b>	Is a certificate of Insurance Required with the proposal submittal and if so should it be uploaded under the Attachments tab within the Ebid System or a separate tab within the proposal response?
<b>Answer</b>	The certificate of insurance will be required for each SELECTED firm prior to contract negotiation.
<b>Asked</b>	7/14/2020 08:41 AM (ET)

<b>Question</b>	1. Who are the incumbent firms for this contract? 2. Besides the Transmittal Page, are there any other page limits on the RFP response? 3. Is there a contract funding limit?
<b>Answer</b>	1. GFA International, Inc., Professional Service Inc., E Sciences, Inc. 2. There is a 250MB limit for each attachment uploaded, but no limit on the number of attachments. 3. The RLI under "Scope of Services" discusses limits/restrictions. The City's approved Capital Improvement Plan as referenced in the RLI contains estimates of projects to be funded over the next 5 years.
<b>Asked</b>	7/10/2020 11:37 AM (ET)

<b>Question</b>	What City entity is this contract with (CRA, Engineering, etc.)?
<b>Answer</b>	Awarded City contracts will be available for use by any applicable department.
<b>Asked</b>	7/9/2020 03:47 PM (ET)

Title Page



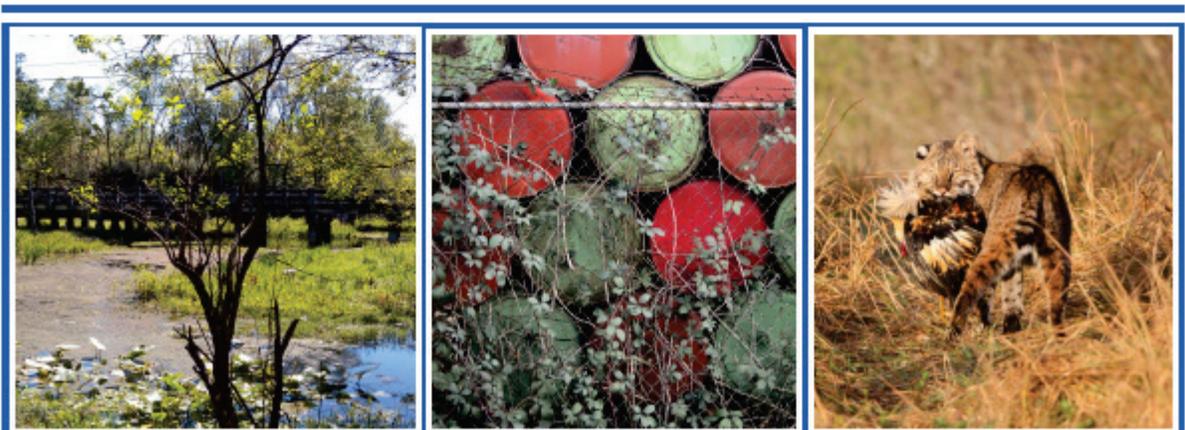
**City of Pompano Beach  
Continuing Contract for  
Professional Environmental Testing**

**Request for Letters of Interest E-22-20**

**Monday, August 24, 2020  
2:00 p.m. EST**



**Submitted to:  
Pompano Beach Purchasing Office  
1190 N.E. 3rd Avenue, Building C (Front)  
Pompano Beach, Florida 33060**



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## Letter of Transmittal

August 24, 2020

City of Pompano Beach  
Purchasing Office  
1190 NE 3<sup>rd</sup> Avenue, Building C  
Pompano Beach, Florida 33060

Re: Continuing Contract for Professional Environmental Testing  
Request for Letters of Interest (RLI) E-22-20

**E Sciences, Incorporated (E Sciences)** is pleased to submit this proposal to provide environmental testing, engineering and consulting services under the City of Pompano Beach E-22-20 contract. E Sciences specifically understands the work involved and we have the availability, capacity and dedicated resources to support the City as it continues to undertake the challenges of managing environmental risks and resources.

We have selected **Nadia G. Locke, PE, LEED AP** to be our project manager for this contract. Ms. Locke has more than 30 years of environmental engineering experience in Southeast Florida. She has been working within the City since we were awarded our first project under our continuing services contract with the Community Redevelopment Agency (CRA) nearly ten years ago. Since then, we were also awarded a contract with the City. She has managed both contracts, with the CRA and the City. She has worked for many other municipal clients including the Cities of Fort Lauderdale, Deerfield Beach, Miami Beach, Homestead, Oakland Park, West Palm Beach, Lauderdale Lakes and North Miami Beach. Ms. Locke is based in E Sciences' Fort Lauderdale office:

**Nadia G. Locke, PE, LEED AP**  
**Associate**

E Sciences, Incorporated  
224 SE 24<sup>th</sup> Street, Fort Lauderdale, Florida 33316  
Tel. (954) 484-8500 Fax. (954) 484-5146 Cell. (954) 937-9678  
Email. [nlocke@esciencesinc.com](mailto:nlocke@esciencesinc.com)  
Federal Tax Identification Number 59-3667002

Please consider the following key benefits offered by E Sciences:

### **Understanding of the City**

E Sciences has a proven track record of partnering with the City, the CRA and your consultants to meet your environmental consulting needs. We have worked within your neighborhoods, along your roadways and on City/CRA owned properties.

### **Local Firm**

This contract will be executed from our Fort Lauderdale office, which is located approximately 15 minutes from the Pompano Beach City Hall. This proximity will facilitate close communication and coordination with City staff. We have demonstrated that we are available for unanticipated meetings or emergency situations.

### **History of Delivering Projects on Time and Under Budget**

E Sciences has a reputation for delivering projects on time and under budget. E Sciences has consistently met our deadlines on all of our City and CRA projects. We have often delivered projects early, when needed, to meet the City goals. We have demonstrated our ability and commitment to mobilize and meet critical time schedules when needed. An example is our ability and commitment is our completion of assessment and remediation of the Sabal Golf Course within six months. On occasion we have been given a contractual time frame initially contemplated during the preparation of a task order but expedited our services to deliver prior to our required deadlines to meet the City's needs. Also, we have never exceeded a project budget. In totality, we have been under budget by \$51,966 for our closed projects under this contract. This equates to just over 6% return of our contract amount back to you to fund other projects.

### **Small Business with Big Resources**

E Sciences is recognized as a small business entity pursuant to federal and state guidelines and can assist the City with meeting its small business procurement goals. Nonetheless, we have a client and project resume that mirrors many larger firms because we provide the technical expertise and resources necessary to assist our clients in managing multi-faceted environmental and community issues. Our smaller size and innovative corporate culture provide a unique flexibility, agility, and creativity when addressing complex problems.

### **Funding Assistance**

E Sciences understands the importance of the need to seek outside funding for projects. Whether it is assisting the City with preparing grant proposals or preparing the environmental documents to demonstrate grant compliance, we have the expertise and experience to help. We have a track record of successful grant proposals for Brownfields, urban forestry, water quality improvement and wastewater. E Sciences has been successful in obtaining over \$30 million in grants for our clients.

### **Local Leadership/Commitment to Community**

Our Fort Lauderdale staff holds prominent leadership positions in the larger community, including Chair of the Broward County Bicycling and Pedestrian Advisory Committee and appointments to the City of Fort Lauderdale Community Advisory Board, the Hollywood Marine Advisory Council and the Broward County Brownfields Redevelopment Task Force. E Sciences' staff regularly participates in community outreach efforts at organizations such as the Pompano Beach Broward Outreach Center for the Miami Rescue Mission and the Broward Cooperative Feeding Program.

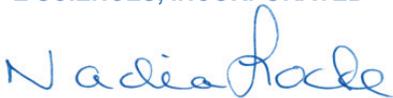
### **Environmental Focus**

E Sciences' staff is dedicated to the profession of engineering and science as it relates to environmental projects. We are experts in bridging the gap between environmental consulting, planning, construction, community interests and balanced funding.

We view this contract as an opportunity to continue our existing working relationship with Pompano Beach and look forward to providing quality environmental services to the City. Thank you for consideration of our proposal.

Sincerely,

**E SCIENCES, INCORPORATED**



Nadia G. Locke, PE, LEED AP  
Project Manager



Peter K. Partlow, PE  
President

## Technical Approach

E Sciences' approach to completing the services under this contract will include providing strong leadership, experienced program management, solid team organization and excellent communication. We will partner with the City and work as an extension of your staff. We have committed the resources of a highly qualified team of professional environmental scientists, geologists, engineers, and ecologists to service each of the scope tasks. We understand the project scope and are ready to assist the City in the successful management of growth. Our technical approach to the tasks described in the scope of services in the RLI are outlined below:

### **Prepare preliminary reports and/or alternative recommendations, including various types of research, modeling, testing and field data analysis:**

The success of our clients is of paramount importance to us. We understand that overcoming the challenges that environmental conditions can present needs to be our primary focus on municipal continuing services contracts such as this one. Each of our staff in Fort Lauderdale averages more than 13 years' experience. This experience brings our clients the benefit of our ability to anticipate the data that will be needed to obtain a sound basis of information to analyze and to present recommendations during the scope development stage. This means that our experience gives us the foresight to develop a scope that will meet the client's project objectives. We are well-versed in the industry standard practices, but we also keep abreast of emerging technical trends, regulatory changes, agency policy shifts and evolving ways of managing, as well as using and disseminating data. Nearly all of our senior staff present on these emerging topics in their respective industries at state and national conferences.

When we scope a project, we discuss the project objectives with the client and then consult our internal team of professionals. Our internal team meets to discuss the project objectives and determine what information we will need, how to obtain that information in an efficient and defensible manner and how to achieve the project goals. Two senior people ensure that the project is properly scoped: the project manager and a second seasoned expert who will provide quality assurance reviews for the project. As the project is underway, this team of two, plus more junior staff professionals who are collecting data, modeling, etc. consult at critical points. One of the first critical points is before field data collection to ensure that the staff understands the objectives of the project and how that data will be used. This helps staff to efficiently collect all of the data needed, it empowers them to make minor field decisions and informs them of when it is critical to get senior staff involved (e.g. if they identify unanticipated field conditions that could affect the data collection or project outcome). This has been a successful approach in obtaining thorough, accurate and relevant information that is used as a basis for our analysis and conclusions.

Another critical communication point is during review of the information collected. A prompt review of field notes and laboratory reports allows us to quickly identify any deviations that may need to be accounted for or managed. After data is reviewed by a senior professional and determined to meet the data quality objectives, the data can be modeled analyzed and evaluated. It is at this point alternative recommendations are made and communicated to the client. Traditionally, we have offered to have face to face meetings, but the pandemic has proven that virtual meetings can be just as effective and allow us to be more efficient. Through Microsoft Teams and other platforms, we share screens and effectively present preliminary findings and alternatives. This provides us the opportunity to tailor our final analysis, conclusions, and recommendations to the client's needs. Often, we provide our findings and alternative recommendations in a preliminary written report or presentation to our client with follow up consultations prior to finalizing our deliverables.

An example project where this approach was used was the Sabal Golf Course remediation project. Another consultant collected contamination assessment data and developed a preliminary plan for removing contaminated soils. E Sciences was subsequently engaged by the City in to complete the project. We assessed the information provided

and met with the City and Broward County. It quickly became apparent that the data collected did not meet the project objectives as the contamination at the proposed soil excavation areas was not delineated. Excavating those areas and collecting confirmation sidewall samples, would likely result in the finding contamination on the sidewalls. This would cause the City to keep assessing the Site and excavating in an iterative manner. We notified the City and met with Broward County and presented the City's alternative options. The City elected to have us delineate the impacted areas in advance so that the project could be bid and that contractor change orders would be avoided. The work needed to be completed quickly, so constant communication between our field staff, project manager and senior staff was of paramount importance to collect all of the data necessary to define the impacted areas in a timely manner to meet the excavation timeline requirements. Decision points for the City included determining when data was sufficient to bid the project within the time constraints, and which regulatory closure strategy would best meet the project goals. This involved multiple communications with City legal counsel and Broward County.

**Prepare all required permit applications and submittal packages as required for permit issuance of all agency permits (i.e. Federal, State, County and City)**

E Sciences' staff has prepared hundreds of permit application packages. We have conducted many environmental permitting projects for neighborhood improvement projects, bridgework, utilities, seawall rehabilitation, dredging, and property redevelopment. Our staff is experienced in data collection, wetland delineation, listed species surveys, mitigation assessments, seagrass mapping and monitoring, design drawings, stormwater modeling, drainage calculations, and conceptual plans.

We are well known by the permitting agencies and regularly facilitate agency meetings, such as pre-application meetings. In fact, we facilitate Florida Department of Transportation (FDOT) District Four's monthly interagency meetings with the South Florida Water Management District (SFWMD). Some of our staff are former agency permit reviewers.

Quality and communication form the basis of our technical approach to permitting. Once the team has a project concept and we have conducted our environmental surveys, we meet with the engineers to inform them of the environmental conditions and we collaborate in ways to balance the engineering and environmental challenges to obtain the best permissible design. At that point, we facilitate a meeting with the regulatory agency staff and our engineer/ecologist team. We present the project to the agency in a cohesive manner demonstrating how we have developed an optimal project that will be permissible. This upfront coordination with the agencies has proven to be invaluable. Their perspective can be taken into account as the design and permitting process continues to minimize the agency concerns and expedite the permitting process. Our permitting staff has an excellent reputation with the agencies. The SFWMD and U.S. Army Corps of Engineers (USACE) often contact us in advance of issuing requests for additional information to provide us with the opportunity to resolve any issues prior to them issuing a letter.

An example of our recognized permitting expertise is our project with the Florida Department of Environmental Protection (FDEP) to perform permitting oversight in support of the development of the Florida Keys Overseas Heritage Trail, a 106-mile recreational paved trail leading from Key Largo to Key West, utilizing 23 of the historic Flagler Railroad Bridges. This project involved numerous segments designed by different engineering firms. E Sciences' role was to develop a Permit Plan to provide guidance to all of the various entities to streamline and unify the permitting process. Specific duties on this project included researching and cataloguing records of threatened and endangered species and wetlands along the Trail alignment, coordinating design and permitting activities for multiple engineering firms designing segments of the Trail, creating a guidance plan for the environmental permitting and development of the Trail, website development and Class of Action Determination documentation.

Another example of our substantial permitting experience is the permitting of wetland mitigation banks for thousands of acres of wetland mitigation in Florida, Texas and Louisiana. Please note the commendation that we received from the Army Corps of Engineers regarding one of these projects.

**Provide project management services for projects:**

The following paragraphs highlight our approach, concepts, and quality control procedures that have proven to be successful on this contract and will continue to be the basis for of our project management approach.

**Contract Management:** E Sciences' management philosophy is based on listening to City staff and understanding the City's business and technical needs, budgetary constraints, staffing needs, and project deadlines. We will develop our project-specific scopes to satisfy these needs, combining experience with ingenuity to find the best solution for each situation. We consider efficiency of design, quality of work, and on-time performance essential components of our company. Our aim is to provide accurate information and sound solutions that satisfy the needs of the City, regulatory agencies and the public. E Sciences can mobilize teams to simultaneously complete multiple projects. We have successfully managed projects ranging from simple studies to large multi-disciplinary projects. The goal of our project management system is to provide quality service that is responsive to the client's needs, is on time, and is within budget. Our organizational structure enables the contract manager, Ms. Locke, to provide overall contract management; and to oversee project execution in a centralized manner. Based upon the nature of the project and workload, Ms. Locke will manage the project or Ms. Locke may assign Ms. Maria Paituvi, PE to be the project manager. These two licensed Professional Engineers have been working on projects for the City or CRA for ten years. This process has ensured that an integrated approach is used in executing individual task orders. Upon receipt of a request for a task order from the City, Ms. Locke will prepare a scope, fee estimate, and schedule. This is discussed with City staff and Ms. Locke will assist with getting the task order through the procurement process as appropriate. Once the authorization is received, Ms. Locke will assemble and mobilize the appropriate professional and technical team members for executing the work. The project manager will monitor the status of schedule, budget, technical quality and overall performance. Ms. Locke and Ms. Paituvi excel at proactively working to avoid or mitigate project problems before they adversely affect the performance of the assigned services.

*"I believe that the consensus is that this is the best monitoring report we have ever received...Personally, this is the first monitoring report that I have reviewed where I did not have several pages of comments requesting clarification and/or asking for information that was supposed to be provided."*

– Brenda Archer, Army Corps of Engineers

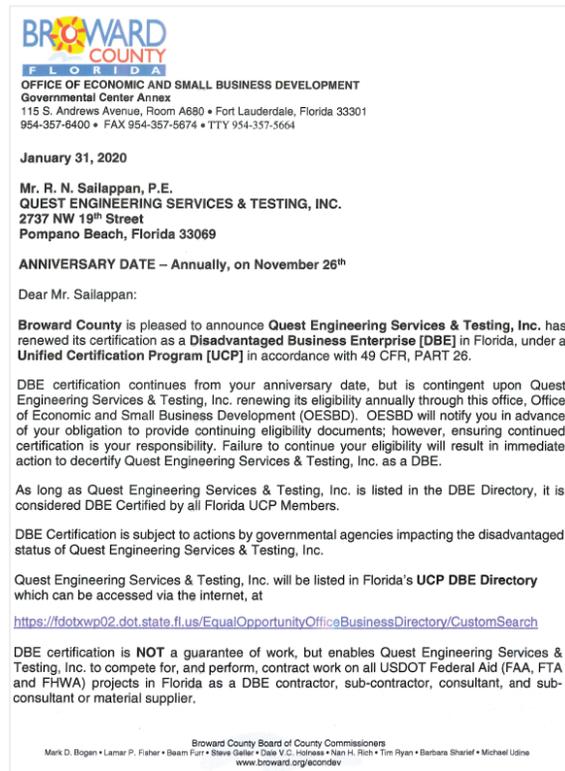
**Tier 2 Local Vendor Under Local Business Program:** E Sciences applauds the City's commitment to its local businesses. We have identified three local businesses as subcontractors so that we can help to further the City's Local Business Program. They are listed below:

- Pace Analytical Laboratories (PACE)
- Quest Engineering Services & Testing, Inc. (QuEST)
- Intercounty Engineering, Inc. (Intercounty)

Because the contract value has not been provided, we were unable to provide a fee estimate for each subcontractor, but we commit to providing these local companies a minimum of 20% of the contract value. Based upon our experience with the types of projects that we have provided to the City and CRA under this contract, we are confident that analytical services will provide opportunities for us to engage PACE and that QuEST will be able to provide geotechnical engineering services. To date, we have not had the opportunity to provide water and sewer support services under this contract, but since these services are outlined on Page 1 as potential "types of projects to be undertaken", Intercounty will assist with those as needed.

**Minority Business Enterprise (MBE) Participation Efforts:** E Sciences has selected two minority enterprise firms to support this contract. (Certificates provided)

- **AirQuest Environmental, Inc.** is a certified MBE/Woman Owned Business Enterprise firm. They will provide asbestos, lead paint and air quality support services.
- **QuEST** is a certified Disadvantaged Business Enterprise (DBE). They will provide geotechnical engineering support services.



**Re: Quest Engineering Services & Testing, Inc.** January 31, 2020

If, at any time, there is a material change in Quest Engineering Services & Testing, Inc. including, but not limited to, ownership, officers, directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of Quest Engineering Services & Testing, Inc., you must notify OESBD, in writing, without delay. Notification should include supporting documentation. You will receive acknowledgement and confirmation of continued eligibility, if applicable after notification of changes.

Quest Engineering Services & Testing, Inc. may compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, receiving DBE credit for work performed in the following areas:

**NAICS CODE: 541330 Engineering Services**  
**NAICS CODE: 541380 Testing Laboratories**

Please feel free to contact OESBD for any questions or concerns pertaining to your DBE certification. Our telephone number is (954) 357-6400; our fax number is (954) 357-5674.

Sincerely,  
*Sandy-Michael McDonald*  
 Sandy-Michael McDonald, Director  
 Office of Economic and Small Business Development

**Quality Assurance/Quality Control (QA/QC):** E Sciences applies a Total Quality Management approach to its Quality Assurance Plan (QAP). We incorporate quality assurance into each facet of our services, from the first phone call to the final invoice. The ultimate purpose of our QAP is to provide the City with the confidence that services are performed according to the appropriate industry standards and that quality assurance is integral to every step of our process. E Sciences has achieved successful results on this contract as a result of our detailed, structured approach to controlling workflow. Our methodology describes the tools and approach we typically utilize to ensure that our services are completed on schedule and within budget.

While the concepts discussed above are procedural and mechanical, total quality and success can only be achieved by jointly committing to goals established by the City, regulatory or other agencies involved, and the E Sciences team. E Sciences is committed to the goal of partnering, and drawing on the strengths, skills, and knowledge of each team member to achieve a quality project that is completed right the first time, within budget and on schedule.

**Scheduling Methods:** We understand the importance of production schedules and delivery dates. To meet project deliverable dates that may have accelerated schedules we have automated our project scheduling process from the inception of the project. We utilize Microsoft Planner to develop internal structure and deadlines to coordinate with all staff. When the project scope has been approved by the City, Ms. Locke will initiate preparation of the necessary work plan, sampling plan, and health and safety plan as appropriate and set the project up in Microsoft Planner. The second tier of the project management process or project coordinator will assemble and mobilize the most appropriate professional and technical team members for execution of the work and will administer the day-to-day activities for the duration of the project. He or she will monitor and report the status of schedule, budget, technical quality, and overall performance for timely review by Ms. Locke. With an adaptive management philosophy, should unexpected issues arise, Ms. Locke will notify the City promptly and offer alternatives to mitigate schedule impacts.

Ms. Locke will continue to regularly communicate with City staff with project updates. The update may be communicated in a written report, if so requested, or may simply involve affirmation of the project schedule and tasks performed over the past week via electronic mail, if preferred. Periodically, E Sciences will provide a project status report. This will likely be provided with an invoice (if project is to be invoiced monthly) and other reports or documentation required by the task order or desired by the City's project manager.

On occasion we have been given a contractual time frame initially contemplated during the preparation of a task order but expedited our services to deliver prior to our required deadlines to meet our clients' needs. Even during this COVID-19 pandemic E Sciences continues to serve our clients without a hitch. We are adept at managing risks and complications avoiding impacts to our clients or their projects.

**Cost Control Methods:** E Sciences has a reputation for delivering projects on time and under budget. Our methods have been discussed in our project management approach. We put the time and care into scoping the projects so that we avoid unforeseen circumstances that could result in change orders. We only bill for the work completed and often complete our projects under budget. We have demonstrated this by delivering the following projects under budget:

- Old Pompano Area Improvements – National Environmental Policy Act (NEPA) Review
- Pompano Beach Airport Soil Sampling
- Proposed youth Sport Complex Sampling
- Palm Aire Lakes Water Quality Assessment
- 1213 East Atlantic Avenue Parcel Phase I Environmental Site Assessments (ESAs) and Asbestos Survey
- Denny's Phase I and Asbestos Survey
- Fire Station 52 Environmental Evaluation
- 550 Cypress Road Parcel Asbestos Survey
- Blanche Ely and Adjacent Parcels Study
- 8 Hammondville Parcels – Phase I and Phase II ESAs
- Broward County Health Center NEPA Review
- 21 South Federal Highway Phase I ESA
- 103 & 111 South Federal Highway Parcels Phase I ESA
- 119 South Federal Highway Phase II ESA

**This totals \$51,966 of under budget services on these projects.**

**Turbidity Monitoring:**

E Sciences has provided turbidity monitoring for a variety of projects. Our staff has conducted turbidity monitoring during construction and dredging in waterways. Our staff has developed numerous turbidity monitoring plans as well. Our approach to turbidity monitoring is to provide experienced staff and reliable equipment. We have two Lamotte Turbidity 2020E turbidity meters in our Fort Lauderdale Office that are available at a moment's notice and staff who are experienced using them. Our staff understands the importance of conducting calibration checks prior to and after each monitoring event, recording results in an accurate and clear manner and reporting the results immediately when non-compliant readings are obtained. We send our field staff to the FDEP's training on Standard Operating Procedures (SOPs) for Water Sampling and Meter Testing so that they are well versed in using the FDEP SOPs and ensure quality data is collected. Additionally, we have 11 FDEP Certified Erosion and Sediment Control Inspectors on staff in the Fort Lauderdale/Miami offices to assist with the successful completion of construction projects.

Notable turbidity monitoring projects include the dredging of the Boynton Inlet and we are currently developing a dredging plan and obtaining regulatory authorizations for the removal of sediment accumulation in the Tarpon River due to two sewer pipe breaks. We are also developing a turbidity monitoring plan for construction of the Parkview Island kayak launch in the City of Miami Beach.

**Prepare recommendations and cost estimates for compliance with regulatory requirements:**

E Sciences regularly provides recommendations and cost estimates for compliance with regulatory programs. To ensure that our recommendations meet client needs, we base them on the following:

- We collect sound and defensible data is used as a basis for making our conclusions. This approach results in our ability to develop solid and viable recommendations for our clients to consider.
- We apply our experience with other projects to develop practical and implementable solutions to project challenges.
- We collaborate with our clients at critical decision points during the project. This is a practice that we employ to ensure that our clients' goals and objectives are integrated into all aspects of project development.
- Preliminary opinions of probable costs are prepared to assist in the decision-making process. We research potential grant or funding opportunities so that the viability of funding opportunities can be part of the consideration in the decision-making process.
- We present our recommendations in a variety of ways that are specifically tailored to each client. We may schedule a meeting to present our recommendations and help vet them prior to submitting a written report or a draft report may be provided. We are flexible in this approach to ensure that our methods of communication are helpful, appropriate, and effective. We understand the importance of facilitating a helpful and responsible process for our clients to make decisions.

Once the decisions are made by the client, we refine our recommendations and develop opinions of probable costs. We understand how important these costs are for developing capital plans, budgets and schedules for project development. We use industry standards for developing costs from a variety of sources including FDOT, FDEP, construction industry literature and our own experience.

**Provide project close-out services. This may include preliminary and final acceptance of projects, preparation and approval of punch list items and project certification as required to all permitting agencies:**

Our engineers understand the importance of providing independent review of contractor work to ensure that project delivery meets the specifications and permit conditions. We have provided construction engineering and inspection services for multiple projects. The following are critical aspects of our approach to providing high quality project close-out services:

- Thorough understanding of the project documents and permit conditions allows our field staff to use a critical eye during construction to identify non-compliance items as the project progresses. Vigilant oversight creates the opportunity for minor adjustments as the project progresses and helps to avoid major reconstruction. This can cause schedule delays and can incentivize a contractor to pursue change orders.
- Using the same staff throughout the project when possible creates consistency and the ability to ensure that deficiency items are properly corrected on follow up inspections.
- Clear communication and good documentation will keep the project on track and reduce the opportunities for misunderstandings that can cause delays and change orders.
- Certifications are the final documents that show that the work was completed in compliance with the project documents and the permits. Our staff understands the importance of only certifying projects that meet this criterion and the quality control requirements of the project.

**Prepare reports for regulatory compliance monitoring and assessments:**

E Sciences is familiar with, and keeps abreast of, federal, state, county and municipal ordinances, laws, rules, codes and regulations. Our expertise in regulations and policies is integrated into our approach to preparing regulatory compliance and assessment reports. We learn from each project and adapt our reports accordingly. Therefore, our clients benefit from this experience. Each report undergoes our rigorous quality assurance process so that the reports are correct and accurate. When we identify issues with meeting regulatory compliance, we consult with the client and develop an approach to communicate in a proactive way with the regulators so that when reports are reviewed by the agencies, we have anticipated their response. We have an excellent track record in seeking regulatory closure with all environmental agencies including Broward County, the SFWMD, FDEP and USACE. The following highlights some of our project experience related to regulatory compliance:

- E Sciences is under contract with FDOT Districts One, Three, Four and Five to provide permitting and compliance services for National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) and generic construction permits.
- We conduct annual compliance monitoring and training for all of the tenants at PortMiami. We also conduct compliance monitoring and reporting of their outfalls to maintain regulatory compliance.
- We prepared numerous Spill Prevention Control and Countermeasure (SPCC) Plans and a training program for the City of Miami Beach for regulatory compliance.
- E Sciences was selected by Disney to conduct SPCC updates to all facilities within the Walt Disney World's Magic Kingdom.
- E Sciences conducted the storage tank closure assessment for the largest Underground Storage Tank (UST) system in the State of Florida for Broward County to follow the FDEP upgrade requirements.
- Our staff has performed stormwater compliance inspections for tenants at the Hollywood-Fort Lauderdale International Airport.

- E Sciences reviewed all aspects of environmental compliance for several Tarmac concrete batch and block plants. Regulated facilities include industrial wastewater management systems, stormwater management systems, water supply and mining operations.

A large portion of our business is related to assessment and remediation of contaminated properties. We have helped our clients assess, remediate and manage risks associated with contaminants of concern including chlorinated solvents, arsenic and lead, petroleum, pesticides, ammonia, and Polychlorinated Biphenyls (PCBs). The following highlights just a fraction of our project experience related to assessment and cleanup at government owned facilities:

- E Sciences completed the remediation at the Sabal Palm Golf Course for the City within six months of initiation, including working over the Thanksgiving and Christmas holidays to meet critical end of year deadlines.
- E Sciences is completing the regulatory closure following the assessment and remediation of the Marlins Park for the City of Miami.
- E Sciences completed assessment and remediation of an urban farm for the City of West Palm Beach under a Brownfields Cleanup grant within the two-year grant time constraints.
- E Sciences just completed a \$2M cleanup at Taylor Park, a site owned by the City of North Miami Beach.
- E Sciences is initiating assessment and remediation planning for the City of Hallandale at the Chaves Lake Park.
- We are assessing and planning for contamination remediation as park redevelopment planning and bidding continues for several parks in Miami Dade County including Rucks Park, Cagni Park, Ives Estate Park and Curtis Park.

#### **Reporting on endangered animals (turtles and owls):**

E Sciences staff of ecologists and biologists offers decades of formal education and practical experience in the assessment and determination of permitting requirements for lands occupied by listed species. E Sciences has worked closely with both private and public entities throughout Florida to assess project specific habitat and mitigation requirements for lands occupied by listed species. E Sciences' experienced ecologists can determine the potential presence of protected species as well as design and conduct both quantitative and qualitative surveys necessary to estimate population density and habitat usage of protected species on any given site. Our staff are versed in land planning, relocation and mitigation to manage both development and listed species protection. Our staff also keeps current with the changing regulations involved with listed species such as recent changes to gopher tortoise permitting and relocation. Several of our staff have participated on numerous boards or spoken at committees and conferences on these issues.



E Sciences employs Florida Fish and Wildlife Conservation Commission (FWC) gopher tortoise agents. Since this requires a significant amount of direct experience, there are only eight gopher tortoise agents in Broward County and E Sciences is proud to employ one of those. The following projects provide examples of our experience:

- E Sciences has conducted surveys, permitting and relocation of burrowing owls and gopher tortoises at the Fort Lauderdale Executive Airport (FXE). We have also provided on-call support to FXE during construction to respond quickly and abate "starter burrows" when they were observed in construction areas.

- E Sciences conducted a burrowing owl survey at JC Bermudez Park for the City of Doral. E Sciences obtained a migratory bird permit for nest relocation from the FWC to accommodate the park's proposed construction project.
- E Sciences conducted 24 hour per day/seven day per week manatee observation and water quality monitoring during dredging activities in the Jupiter Inlet and the Atlantic Intracoastal Waterway in Jupiter. Our scope of services included post-dredge seagrass surveys to determine if the dredging activities resulted in seagrass impacts.
- Under our contract with FDOT District Four, the E Sciences team performed daily nest monitoring and observation for sea turtles in Palm Beach County during the nesting season.
- We have also provided threatened and endangered species surveys and monitoring for roadway projects in Broward, Palm Beach, Martin and Indian River Counties for FDOT. Species monitored include gopher tortoise, the Florida black bear, West Indian Manatee, Florida scrub-jay, crested caracara, wood storks, sand skink, sea turtles, kestrels, burrowing owls, eastern indigo snake, red-cockaded woodpecker, Florida sandhill cranes, Florida panther, bald eagles, various wading birds and rare plants.
- We provided land restoration plans for the Southern Glades Everglades Restoration Area to restore habitat for the Cape Sable Seaside Sparrow and the Florida Panther.

#### **Opportunities for Subconsultant Services:**

The RLI provides a list of the types of projects that may be undertaken under this contract. There are several projects outlined in the City's Capital Improvement Plan and several projects listed that provide opportunities for us to engage our local business partners. As requested by the City water and wastewater support services will be provided by [Intercounty](#) under this contract. They are familiar with the City and have experience with all types of public works projects including lift stations, pump stations, water and wastewater treatment plants, water mains, force mains, sanitary and stormwater systems. As such, they can assist with engineering and field services related to water, wastewater and stormwater if needed under this contract.

We have included [QuEST](#) to provide geotechnical services. Although not specifically included in the RLI, we have subcontracted numerous geotechnical investigations under our existing contracts with the City. In the past we used a national firm, but moving forward QuEST will be our partner, enabling us to provide work to a local business.

#### **Opportunities for Enhanced Services and Capital Project Support:**

Our understanding of the City's needs is based upon our firm and employee residents' firsthand experience with the City and review of the Pompano Beach Capital Improvement Program (CIP). Some specific issues that the City may be confronting that will require assistance from the firm who is awarded this contract include the following:

- Phase I, Phase II and Phase III ESAs on properties to facilitate redevelopment and ensure the City secures liability protections during site acquisition;
- Responsive turnaround assessment for unanticipated storage tanks, discharges or discoveries that may arise from redevelopment of old historical land uses that may be identified during construction of public projects;
- Water quality improvement projects such as those associated with the sewage spill in the Pompano Canal or stormwater drainage infrastructure. This can include parking lots, roadway improvements and redevelopment;
- Stormwater master planning for a comprehensive approach to managing and planning for future flood adaptation;

- Contamination assessment or remediation at contaminated properties slated for redevelopment or identified during removal at City facilities;
- Technical support to assist the City with identifying potential impacts and costs from the numeric nutrient criteria and the NPDES permits;
- NEPA support to address FDOT's requirements for Local Agency Program (LAP), Federal Transit Administration (FTA) or the Metropolitan Planning Organization's (MPO's) Transportation Alternatives Program projects. This can be used to ensure compliance on funded roadway and streetscape projects;
- Assistance with funding to include State Revolving Loan Funds or grants such as the Section 319, Total Maximum Daily Load (TMDL), Sustainable Communities, Brownfields Redevelopment and others;
- Coastal permitting and consulting as the City's needs to armor the shorelines to prepare for climate change are addressed. This can be in the form of seawall restoration, living shorelines and beach renourishment;
- Benthic surveys, ecological evaluations and permitting for support of canal/lake dredging or bridge/seawall/dock rehabilitation projects;
- Environmental enhancement master planning for parks and recreation facilities;
- Conducting storage tank upgrades at lift station and pump station rehabilitation projects;
- Inspection services for emergency repairs related to water, wastewater or stormwater
- Identification of wetlands, tree conflicts or contamination during planning and permitting for utility corridor projects such as force, gravity sewer, re-use and water main projects;
- Industrial hygiene related services in response to employee concerns regarding indoor air quality and mold;
- Building materials evaluations at buildings slated for renovation or demolition;
- Inspection services such as those required for installation of subsurface improvements in an urban setting (utility poles, bus shelters, sidewalk improvements, drainage structures etc.);
- SPCC Plans for areas with aboveground storage of petroleum;
- Assessment and dewatering plans in potentially contaminated areas;
- Manatee observation for waterway projects, such as maintenance dredging;
- Sedimentation and erosion control training for staff;
- Environmental permitting for dredging or site development;
- Assisting with the Brownfields site designation review and processes; and
- Conducting annual canopy assessments and identifying street trees vulnerable to coastal flooding;

## Schedule

Each project that is contemplated under this contract will have unique time constraints. Schedules may be driven by due diligence, grants, contracts and other needs. A formal timeline is developed when we scope each project, so we cannot provide a “one size fits all” timeline in this response. But we can assure you of our commitment to meeting schedules.

We understand the importance of production schedules and delivery dates. To meet project deliverable dates that may have accelerated schedules we have automated our project scheduling process from the inception of the project. When the project scope has been approved by the City, Ms. Locke will initiate preparation of the necessary work plan, sampling plan, and health and safety plan as appropriate to the task. The second tier of the project management process will assemble and mobilize the most appropriate professional and technical team members for execution of the work and will administer the day-to-day activities for the duration of the project. Staff will monitor and report the status of schedule, budget, technical quality, and overall performance for timely review by Ms. Locke. She will apply an adaptive management philosophy to the project. Should unexpected issues that impact schedules arise, Ms. Locke will notify the City promptly and offer alternatives to mitigate schedule impacts.

Ms. Locke will continue to regularly communicate with City staff with project updates. The update may be communicated in a written report, if so requested, or may simply involve affirmation of the project schedule and tasks performed over the past week via electronic mail, if preferred. On a monthly basis, E Sciences will provide a project status report. This will likely be provided with an invoice and other reports or documentation required by the task order.

### **Current Workload**

We have reserved resources in our workload capacity for the City as we face the expiration of our existing contract. As such, we have plenty of resources available to continue to respond to the City's needs quickly and efficiently. At this time, E Sciences has one project with the City. We are currently conducting a Phase I ESA for the Oceanside Parking Lot Parcels located at 109 North Ocean Boulevard for a fee of \$3,560.

## References

E Sciences has provided references with associated scope, cost and responsibilities for past projects in the tri-county area.

**Elizabeth Wheaton, Director**  
**Environment & Sustainability Department for the City of Miami Beach**  
 1700 Convention Center Drive, 3rd Floor  
 Miami Beach, Florida 33139  
 Tel. (305) 673-7084 Ext. 26121 Email. [ewheaton@miamibeachfl.gov](mailto:ewheaton@miamibeachfl.gov)



### City of Miami Beach Environmental / Coastal Engineering Continuing Services

**Project Dates:** August 2011 – Ongoing

**Project Budget/Amount Invoiced to Date:** \$1,443,733/\$986,491

**Description:** E Sciences was awarded a contract with the City of Miami Beach to conduct environmental / coastal engineering services. Our responsibility was to provide general environmental support services to a variety of projects. Several of these projects were related to capital improvement planning or permitting. E Sciences has provided a variety of projects to the City under this contract including the following:

- Environmental permitting for seawall restorations (Fleet Management, Carl Fisher, etc.)
- Environmental permitting for new structures such as the Baywalk and kayak/canoe launches
- Benthic survey and evaluation for potential mooring field in Sunset Harbor
- Phase I and Phase II ESAs/Asbestos Surveys for Miami Beach Convention Center and Associated Lots
- U.S. Department of Housing and Urban Development (HUD) NEPA Review and Phase I ESA for Tatum Park
- Groundwater Elevation Monitoring and Mapping Support, Sunset Harbor Sea Level Rise Evaluation
- SPCC Plans for 12 City Facilities
- Green Waste Facility Site Assessment and Engineering Control Installation, regulatory closure assistance
- Fleet Management Facility Site Assessment and Testing
- Street Tree Inventory Greenspace Canopy Assessment
- Fleet Management Facility Site Assessment Report
- Citywide Sea Level Rise Evaluation



**Horacio Danovich, Director of Engineering Services  
Pompano Beach Community Redevelopment Agency**

100 West Atlantic Boulevard, Room 276

Pompano Beach, Florida 33060

Tel. (954) 786-7834 Fax. (954) 786-7836 Email. [horacio.danovich@copbfl.com](mailto:horacio.danovich@copbfl.com)



**Continuing Contract for Environmental Engineering Services**

**Project Dates:** July 2010 – Ongoing

**Project Budget/Amount Invoiced to Date:** \$243,784/\$225,613

**Description:** E Sciences was awarded a contract with the Pompano Beach CRA to conduct environmental engineering services in 2010. To date, E Sciences has provided tasks for several projects including the following:

- NEPA compliance documents to satisfy FDOT funding through the LAP for Martin Luther King Jr Boulevard/NW 31<sup>st</sup> Avenue and NW 7<sup>th</sup> Avenue Sidewalk Improvements
- NEPA compliance documents to satisfy application for U.S. Department of Transportation funding for Dixie Highway Improvements
- NEPA compliance documents for Health and Rehabilitative Services Grant for Broward Community and Family Health Center
- Phase I and Phase II ESA and Asbestos Survey for Parcels Located at the northwest Corner of Atlantic Avenue/West Dixie Highway, Blanche Ely and Adjacent Parcels, 731 Hammondville Road Parcel, the Mallek Phase II ESA for Community Gardens Parcels, Flagler Avenue Property and 8 Hammond Road Parcels.



**Stephanie Heidt, AICP, Economic Development and Intergovernmental Programs Director**  
**Treasure Coast Regional Planning Council (TCRPC)**  
421 SW Camden Avenue, Stuart, Florida 34994  
Tel. (772) 221-4060 Cell. (772) 475-3863 Email. [sheidt@tcrpc.org](mailto:sheidt@tcrpc.org)



### EPA Brownfields Grant Support Services

**Project Dates:** 2008 – Ongoing

**Project Budget/Amount Invoiced to Date:** \$348,811/\$334,877

**Description:** For three multi-year contracts and grant cycles, E Sciences has provided environmental consulting services in support of the implementation of the TCRPC EPA Brownfields assessment and remediation grants. In this role, E Sciences conducted Phase I and ESAs, site assessments and remediation planning. We also provided the U.S. Environmental Protection Agency (EPA) required reporting to comply with grant provisions. The following list some project examples that we completed under this contract.

- Phase I ESA for Ballet Florida, 500 Fern Street, West Palm Beach
- Phase I ESA for Seaboard Train Station, 201 Tamarind Boulevard, West Palm Beach
- Phase II ESA for Transit Oriented Development Site “the Wedge” in West Palm Beach
- Phase I and Phase II ESAs, Site Assessment Report, Remediation Planning and Asbestos Surveys for Former West Palm Beach City Hall
- Limited Site Assessment for Henrietta Avenue for Community Garden



## Prior Projects Performed for the City of Pompano Beach

<b>E Sciences Projects Completed within the Last Five Years for the City and the CRA*</b>		
<b>NAME</b>	<b>DESCRIPTION</b>	<b>BUDGET</b>
Ali Building	Update site visit conditions since the completion of the Phase I ESA conducted in 2011.	\$1,067
1841 Commercial Warehouse Building	Asbestos and lead-based paint survey for redevelopment of a commercial warehouse.	\$3,641
Pompano Beach Airport	Soil sampling to evaluate potential soil reuse of soil excavated from construction site for a golf course remediation project.	\$21,154
Proposed Youth Sports Complex	Phase I ESA for an Elks Lodge to be redeveloped into a Youth Sports Complex.	\$3,095
Palm Aire Lakes	Provide a water quality Assessment snapshot of the Palm Aire Lakes as related to Class III Freshwater standards.	\$18,211
Palm Aire Golf Course	Asbestos survey and lead based paint inspection for Palm Aire Golf Course Shed.	\$1,553
223 NE 13th Street Parcel	Phase I ESA for commercial property considered for potential purchase and redevelopment by City.	\$2,800
Pompano Beach Woman's Club Property	Phase I ESA for property located at 314 NE 2nd Street.	\$2,845
Dixie Highway	NEPA Assessment for Tiger Grant for roadway improvements along Dixie Highway to include a cultural resources assessment.	\$45,695
Palm Aire Country Club	Phase I ESA for a country club including a golf course and lakes.	\$3,000
1213 E Atlantic Avenue Parcel	Phase I ESA and pre-demolition asbestos survey.	\$6,907
Elks Lodge	Pre-demolition asbestos survey and lead based paint inspection.	\$6,757
Sabal Golf Course	Soil assessment efforts to complete estimation of impacted soil areas to develop and implement a remedial strategy to enable the City to obtain a Site Rehabilitation Completion Order with Conditions and planned redevelopment.	\$74,000
Denny's Restaurant	Phase I ESA and pre-demolition asbestos survey for a property considered for potential acquisition and development by the City.	\$6,990
Fire Station 52 Property	Phase I ESA, Asbestos Survey and Lead-based paint survey for property to be demolished and redeveloped by the City as a Fire Station.	\$8,792
Fire Station 114	geotechnical evaluation for property to be redeveloped by the City as a Fire Station.	\$3,848
1207 East Atlantic Boulevard Parcel	Phase I ESA of vacant lot in anticipation of the City acquiring the property.	\$3,042

<b>E Sciences Projects Completed within the Last Five Years for the City and the CRA*</b>		
<b>NAME</b>	<b>DESCRIPTION</b>	<b>BUDGET</b>
Sabal Golf Course	Engineering Control Maintenance Plan to support the regulatory closure for the proposed Pompano Beach Sports Park Reuse Area	\$15,000
550 Cypress Road Property	Pre-Demolition Asbestos Survey	\$3,147
Palm Aire Drive and 5th Avenue Bridges	pre-demolition and pre-renovations lead paint surveys	\$4,705
Oceanside Parking Lot Parcels	Phase I ESA	\$3,560
NW 7th Avenue Sidewalk Improvement	Programmatic Categorical Exclusion Checklist, inclusive of a Cultural Resource Assessment Survey, for a sidewalk improvement project to satisfy FDOT funding.	\$9,732
Belle Two	Phase I ESA for potential purchase by the City.	\$3,947
100 SE 20th Avenue Parcel	Phase I ESA for potential purchase by the City.	\$2,800
Annie Gillis Urban Park	Geotechnical exploration and hydrological testing for urban park redevelopment in the CRA.	\$6,248
21 South Federal Highway Parcel	Phase I ESA for an automotive wash site.	\$2,877
Mullet Alley Property	Geotechnical survey of the site for evaluation of soil conditions as part of potential development for the City.	\$5,800
103 & 111 S. Federal Highway Parcels	Pre-Demolition asbestos survey.	\$5,527
814 NW 3rd Street Parcel	Pre-Demolition Asbestos Survey.	\$2,942
Pompano Ford Lincoln Property	Phase I ESA for potential City acquisition	\$3,080
111 S. Federal Highway Parcel	Phase I ESA.	\$5,900
119 S. Federal Highway Parcel	Phase I ESA.	\$2,600
119 S Federal Highway Parcel	Phase II ESA to evaluate the potential presence of petroleum impacts based on historic reported discharges based on current standards.	\$9,900
Pompano Amphitheater	Geotechnical survey	\$26,000

\*Please note that geotechnical, asbestos and lead based paint surveys were conducted by our subconsultants.

## Project Team Form

COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RLI IN THE EBID SYSTEM.

### PROJECT TEAM

RLI NUMBER E-22-20

Federal I.D.# 59-3667002

#### PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	Peter Partlow, PE	31	MBA/BS
Project Manager	Nadia Locke, PE, LEED AP	32	BS
Asst. Project Manager	Maria Paituvi, PE	14	BS
Other Key Member	Patrick Shearer, PE	12	BS
Other Key Member	Gayle Stone, MS	26	MS/BA

#### SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying		
Landscaping		
Engineering	Intercounty Engineering, Inc. 1925 NW 18th Street 3307, Pompano Beach, Florida 33069	Luis Fernando Cordova Thomas V. Veit
Other Key Member	QuEST Engineering 2737 NW. 19th Street, Pompano Beach, Florida 33069	R. N. Sailappan, PE Reza Javidan, PE
Other Key Member	AirQuest Environmental, Inc. 6851 Southwest 45th Street, Fort Lauderdale, Florida 33314	Traci-Anne Boyle, MBA, CIH, CSP
Other Key Member	Pace Analytical Labs 3610 Park Central Boulevard North, Pompano Beach, FL 33064	Neshmah Castaneda
Other Key Member	JAEE Environmental Service, Inc. 3101 Peachtree Circle, Davie, Florida 33328	Willie Smitherman

(use attachments if necessary)

## Organizational Chart

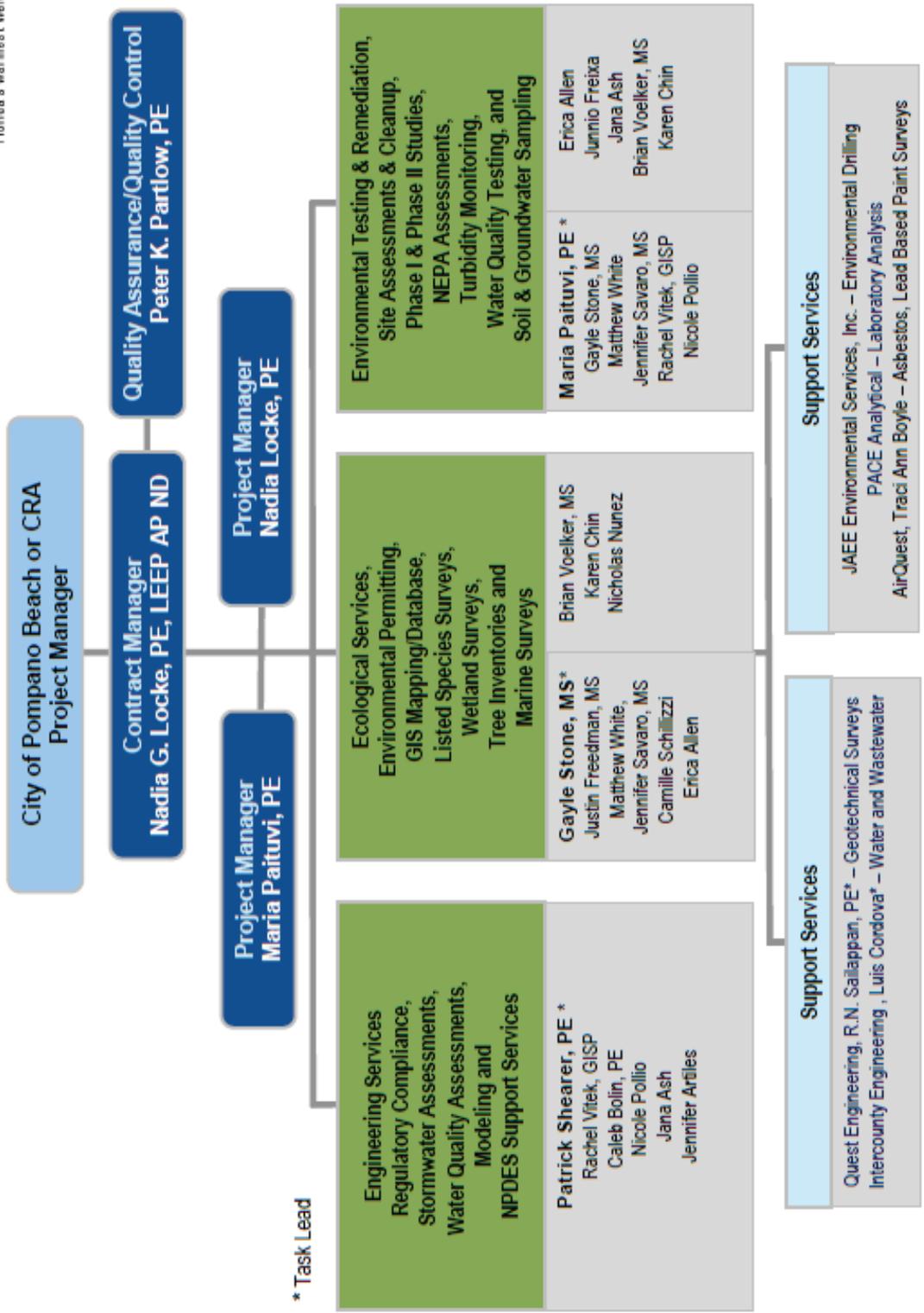
The City's commitments to its community require planning for potential environmental impacts and managing environmental issues as they arise. At E Sciences, we embrace the role of the environmental consultant to support the City and its other consultants in providing a coordinated and broad approach to addressing the environmental issues and risks that must be managed as part of the process. We will keep in mind the overall goals of each project as we work through the details necessary to satisfy your needs. Our understanding of the City's needs is based upon our experience with providing environmental engineering services for other municipal clients and cities, our local knowledge of the City through our work with the City and the CRA.

### **Organizational Chart**

In the organizational chart on the following page, we have grouped environmental service types that would be coordinated and executed by the same key individuals so that we could clearly present the individuals responsible for the coordination of the separate components of the scope of services. These services are based upon the scope of services that we have provided for the City or CRA in the past or anticipate that may be needed in the future based upon the City's Capital Improvement Plan. The organizational chart also shows how subconsultants and subcontractors will be utilized. Please refer to our management plan approach outlined on Page 7.



# Organizational Chart Professional Environmental Testing and Consulting Services



\* Task Lead

Firms in Dark Blue Meet the City's Local Business Program as Local Vendors

## Statement of Skills and Experience of Project Team

### Team Experience

As the “E” in our name indicates, E Sciences’ business is entirely focused on providing services in the environmental, engineering and ecological fields. Our staff includes registered professionals and degreed scientists whose expertise provides a comprehensive and combined set of skills that support our clients’ goals through and beyond the planning, design and construction phases of their projects. Because of the depth of experience, our Fort Lauderdale based staff averages more than 13 years of professional experience per person.

Our presence in South Florida has grown since we opened E Sciences' Fort Lauderdale office on Earth Day 18 years ago. We have **prime continuing environmental engineering and science service contracts** with the following government entities which are all managed and serviced from the Fort Lauderdale office:

- City of Pompano Beach
- Pompano Beach CRA
- City of Fort Lauderdale
- City of Miami Beach
- City of Miami
- City of North Miami Beach
- City of North Miami
- City of Homestead
- Islamorada, Village of Islands
- City of Key West
- TCRPC
- FDOT District Four
- SFWMD
- City of Dania Beach

In addition, we have conducted similar services for the following additional municipal clients:

- City of Coral Gables
- City of Lauderdale Lakes
- City of Oakland Park
- City of Miami
- City of Deerfield Beach
- City of Doral
- City of Key West
- City of West Palm Beach
- City of Lauderdale Lakes
- City of Dania Beach

Because these projects were all managed from E Sciences' Fort Lauderdale Office, the City will benefit from having the same staff from the above contracts working on your projects. Our Contract Manager, Ms. Locke has conducted work for all of these cities.



To serve the City, E Sciences has compiled a team of qualified firms, including the following subconsultants and subcontractors who will provide the designated specialty services: most effectively

<b>Subconsultant and Subcontractor Roles</b>		
<b>Subconsultant / Subcontractor</b>	<b>Service to be Provided</b>	<b>Relevant Project Experience Subconsultant/Subcontractor</b>
AirQuest	Asbestos, Radon, Lead Paint, Mold, Indoor Air Quality	Asbestos surveys for the Palm Aire Drive and Fifth Avenue Bridges, Palm Aire Golf Course, Elks Lodge, Denny's Restaurant, 550 Cypress Road Property
QuEST	Geotechnical Surveys	Structural Mitigation of Various Residences in Pompano Beach, Broward Water Treatment Plan, Long Key Park, Sample Road ARV Installations, Broward County, Miramar Water and Hollywood Water Treatment Plants, Fort Lauderdale International Airport Terminal 1 Expansion
Intercounty	Water and Wastewater Support Services	Rehabilitation of Pompano Sanitary Sewer Manholes, North Regional Wastewater Treatment Plant force main modification for Lift Stations 3 and 5, Sawgrass Wastewater Treatment Plant Clarifier Scum Upgrades
JAEE Environmental	Environmental Drilling	Many Pompano Beach CRA Phase II ESA projects
PACE	Soil, Groundwater, Sediment Laboratory Analysis	Palm Aire Lakes Water Quality Evaluation, Tarpon River

Note: Projects in blue indicates projects that E Sciences worked with the subconsultant.

### Prior Experience of the Firm with Projects of Similar Size and Complexity

The following government contracts provide examples of specific projects (successfully completed within the last five years) where the team members have performed similar projects.

#### **Pompano Beach CRA Continuing Contract for Environmental Engineering Services**

**Client:**

Pompano Beach CRA

**Key Personnel Involved:**

Nadia G. Locke, PE, LEED AP and Maria Paituvi, PE,  
Jamie Patterson-Brady, PG, Gayle Stone, MS, Brian Voelker, MS

**Key Subcontractors Involved:**

JAEE Environmental Services, Inc. and Ground Hound Detection Services, Inc.

**Similar Types of Projects to Pompano Beach:**

Phase I and Phase II ESAs, Monitoring Well Installation, Soils and Groundwater Sampling and Report Preparation, Asbestos Surveys and Remediation Recommendations

**Description:** E Sciences was awarded a second term contract with the Pompano Beach CRA to provide environmental engineering services. We also have a contract with the City of Pompano Beach to provide similar services, but this CRA contract is specific to assisting with projects that stimulate redevelopment within the CRA. All of the services provided under this contract are on properties within the designated Pompano Beach Northwest Brownfield Area.



Our approach to assisting this client has been to utilize creative assessment tools to identify the real potential concerns and to quickly assess how they can be addressed in a practical manner during design and construction. This approach is allowing the redevelopment projects to proceed without the obstacle of assessment and remediation. On numerous occasions, we have met in person with the client (at no cost) to understand the CRA's mission and overall goals and plans to ensure that our role on the team is integrated, practical and helpful. To date, E Sciences has provided tasks for several projects including the following:

**Community Gardens Parcels:** E Sciences evaluated the suitability of three vacant, CRA-owned parcels for use as community gardens for a local school. The community gardens will be used to teach children about agriculture and healthy food choices. Vegetables grown on these lots will be used to provide fresh vegetables for families and children in the community. Incremental sampling methodology was used for soil assessment at this site resulting in several thousands of dollars in savings for the CRA.

**Blanche Ely and Adjacent Parcels:** E Sciences assessed this property, which consists of 27 parcels in the CRA. Historic land uses such as dry cleaners, an automotive repair facility and an UST were identified to be recognized environmental conditions (RECs). Phase II testing indicated the presence of chlorinated solvents at this property. E Sciences further assisted the CRA on the best way to utilize the information in the context of the CRA's plans for future re-development. The CRA is currently moving forward with redevelopment of these properties.

**Mallek Property:** E Sciences performed a Phase I and Phase II ESA of multiple acres of urban land being purchased by the Pompano Beach CRA to evaluate potential environmental concerns. The Phase I ESA revealed the possible presence of a historic USTs and contamination associated with the historical land use. Phase II services included a

geophysical survey, and soil and groundwater testing. A UST was discovered during the Phase II ESA. E Sciences provided guidance to the CRA as to the proper regulatory course of action to remove the UST and move forward with purchase and redevelopment of the Site.



**Broward Community & Family Health Center:**

E Sciences prepared Environmental Information and Documentation to satisfy Health Resources and Services Administration grant application requirements. The project was conducted to support the potential redevelopment of CRA parcels with a much-needed community health care facility. The documentation was required for the grant applicant to comply with the National Environmental Policy Act.

**Corner of Atlantic Avenue/West Dixie Highway:** This is an assemblage of numerous parcels owned by the CRA and adjacent properties owned by others. E Sciences conducted a Phase I and Phase II ESAs on the multiple parcels. The Phase I ESA revealed RECs related to historical land uses such the following: dry cleaner, gasoline station, blueprint and photostat business, auto sales and service center with historic underground storage tanks and a lumber yard. The site was determined to be contaminated from the historic dry cleaner.

E Sciences prepared a site development evaluation for this property providing guidance to the CRA on how the presence of contamination could impact site redevelopment and set forth strategies for minimizing the impact of contamination on the construction; designing the site to minimize the impact of the construction and site development; and to reduce potential risks.

**8 Hammondville Road Parcels:** E Sciences conducted a Phase I and II ESA for eight parcels within the Pompano CRA planned for future redevelopment. Buried debris was identified during the Phase II ESA, but guidance was provided to the CRA on how they could still redevelop the properties. The Site was successfully redeveloped and is currently occupied by a two-story commercial building and associated parking lot.

**Flagler Avenue Property:** E Sciences conducted a Phase I ESA of 0.5-acre parcel of land owned by the CRA to prepare for redevelopment. Our approach to performing this assessment included a review of the public records, interviews with appropriate local agencies, a site reconnaissance and preparation of a written report containing findings, opinions and conclusions.

**731 Hammondville Road Parcel:** E Sciences conducted a Phase I and II ESA for this parcel within Pompano CRA. The Phase I ESA revealed historic land uses that warranted further evaluation (gasoline station and dry cleaners). No contamination of concern was identified during the Phase II ESA.

## City of Fort Lauderdale General Environmental Engineering Services

### Client:

City of Fort Lauderdale

### Key Personnel Involved:

Nadia G. Locke, PE; Maria Paituvi, PE; Patricia L. Gertenbach, PG; Gayle Stone, Jennifer Savaro, Cavel Williamson, Rachel Vitek, Junnio Frexia, Matthew White, Nicole Pollio, Brian Voelker, Justin Freedman

### Key Subcontractors Involved:

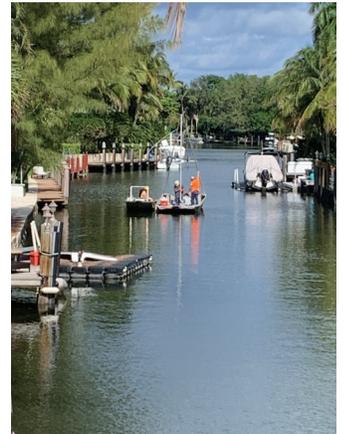
JAEE Environmental, Inc. and Ground Hound Detection Services, Inc.

### Similar Types of Projects to Pompano Beach:

Phase I and Phase II ESAs, Monitoring Well Installation, Soils and Groundwater Sampling and Report Preparation, Asbestos Surveys and Remediation Recommendations, Air Quality Testing and Associated Reports, Grant Support Services, Permitting Support

**Description:** E Sciences was awarded a contract with the City of Fort Lauderdale (City) to provide ongoing environmental engineering support during three separate consultant selection processes. The scope of the contract is broad and provided us with a wide range of opportunities to support the City. The following summarizes some of the projects completed:

**Tarpon River Restoration:** A 54" sanitary sewer force main pipe broke in the Rio Vista neighborhood, adjacent to the Tarpon River. Two breaks caused discharges from the force main to flow into the Tarpon River. The discharges included raw wastewater and sediment laden water from dewatering activities related to the repair of the force main. The Tarpon River is a Class III water, meaning the designated uses include fish consumption, recreation, and propagation and maintenance of a healthy, well-balanced population of fish and wildlife. The City engaged E Sciences to identify the impact area and develop a restoration plan for the affected portion of the Tarpon River. E Sciences used vibracore technology to collect sediment cores for visual characterization and sample collect. Sediment samples were analyzed for human waste indicators and bacteria to define the area of impact. A benthic survey using a "go-pro" camera was used to document the river bottom and to evaluate the presence of submerged aquatic vegetation. A hydrographic survey was conducted, and the information used to estimate the dredge material volumes for the purposes of obtaining contractor bids. E Sciences collaborated with the USACE, FDEP and Broward County to identify ways to streamline the agency permitting and authorization procedures and in support of the development of a sediment removal plan. Weekly updates were provided to the City to be disseminated to the public to keep the residents informed of the progress of the project.



**Bonnet House Greenway Access:** E Sciences was engaged by the City to conduct an environmental evaluation for proposed greenway between Birch State Park through the Bonnet House Museum and Gardens property (Bonnet House) to North Birch Road to the South. The project objectives are providing connectivity from Sunrise Boulevard and Birch State Park to the island community located south of the Bonnet House property; immersing the user in the mangrove forest; maintaining a distance between the user and the Bonnet House activities and not interfering with the Bonnet House parking or landscaping. This evaluation was conducted to support a grant application for assistance under the National Park Service Rivers, Trails, and Conservation Assistance Program. E Sciences was requested to

seek ways to minimize impacts to environmental resources that could be incorporated into the design of the greenway. E Sciences proposed an alternative greenway layout that would reduce mangrove impacts by shifting the greenway into disturbed uplands areas towards the south end of the greenway. This alternative layout would also result in decreased impacts to landscape trees and preserve parking areas for the users of the Bonnet House property. Design measures, including an elevated boardwalk and permeable pavement, could be implemented to further reduce impacts to natural resources.



**Isle of Palms Seawall 15 Replacement and Climate Change Adaptation:**

E Sciences provided support to the City in anticipation of replacement of 900 feet of seawall along the west side of Isle of Palms Drive. Sea level rise has caused surface waters to overtop this seawall and flood adjacent land and roads. The purpose of the project is to raise the height of the seawall and protect the shoreline from the effects of climate change. The City engaged E Sciences to conduct a benthic survey to support the design and permitting. Seagrasses were identified and data regarding on seagrass bed size, density, incidental species observed, and substrate conditions were recorded

and documented. E Sciences collaborated with the design engineers to assist them in obtaining the regulatory agency permits and by the City to inform the construction procurement process. The report was delivered one week ahead of the contract schedule and under budget.

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

**NEPA Statutory Worksheets:** The City seeks Community Development Block Grants from HUD to improve quality of life through neighborhood enhancement projects. E Sciences conducts environmental reviews and prepares the NEPA Statutory Worksheets for projects that are categorically excluded under NEPA, such as decorative street name posts, entryway monuments, brick paver crosswalks, decorative lighting and landscaping. The preparation of this worksheet requires coordination with environmental regulatory agencies, including the State Historic Preservation Office, the FDEP, and the EPA. The Statutory Worksheet includes a Determination section with three options. If the project does not require mitigation for compliance with listed statutes or authorities, nor require formal permit or license, then it converts to Exempt status. Based on the proposed change in use of the property, it was determined that the project did qualify as a Categorical Exclusion and required a higher level of review. E Sciences has prepared these Statutory Worksheet for multiple projects across the City.

**Former Transfer Station:** E Sciences was engaged under the City to provide environmental support for the regulatory closure of the former trash transfer station related to the documented soil and groundwater contamination at this property. E Sciences compiled historical assessment information and regulatory requirements to define the areas to be subject to engineering controls (ECs). E Sciences teams drafted the design drawings depicting the affected areas and technical specifications. The design documents included soil handling provisions, environmental considerations and approximated quantities. The design documents were prepared for the City to distribute as the proposed scope of work for the bidding package.

**Las Olas Circle Site Assessment:** A UST containing fuel was discovered during installation of a water main at a city-owned project site undergoing redevelopment. A crack developed on the side of the tank and approximately 10 gallons of fuel spilled. E Sciences mobilized to the Site shortly after the tank was discovered and advised the CRA on measures to secure the tank. The tank was discovered at approximately 3:00 PM and the site was cleaned and secured by approximately 4:30 PM. Removal of the tank, conducted by others, revealed the presence of contaminants

above the regulatory standards in the soil and the groundwater. The City engaged E Sciences to conduct additional site assessment as required by Broward County Environmental Protection and Growth Management Department (EPGMD). E Sciences conducted soil and groundwater sampling activities to try to delineate the contaminants detected above the regulatory standards and prepared a Site Assessment Report. Based on evaluation of the analytical data, the contaminants appear to not be related to the former tank and E Sciences proposed the implementation of alternative cleanup target levels to pursue regulatory closure of the contamination.

**NPDES Permitting Support:** NPDES Permitting Support: E Sciences has worked with the City to prepare their TMDL Prioritization Plan and Assessment Program as required to be submitted within Year 1 of the City's NPDES MS4 permit. During Year 2 of the permit, E Sciences began preparing pollutant load analysis and reviewing monitoring data collected by the County to help the City understand the effects of their stormwater system improvements on neighboring waterbodies, as well as to comply with the permit. In addition, E Sciences is preparing the City's Bacterial Pollution Control Plan Preparation (BPCP), working with multiple stakeholders in the area for effective reporting and cost savings, which will be submitted with the City's Year 3 annual report. E Sciences continues to provide on-going NPDES support as needed to the City including review annual report and SOPs to ensure compliance with permit requirements.

**Sistrunk Boulevard:** E Sciences was hired by the City to conduct soil and groundwater testing along Sistrunk Boulevard from I-95 to Andrews Avenue. The project was conducted in order to support the CRA with implementing a streetscape, drainage and roadway enhancement project. E Sciences conducted soil and groundwater testing at 36 locations to evaluate potential impacts to construction that may arise due to known contaminated sites historically located along the corridor. Potential sites of concern included historical dry cleaners, gasoline stations, junk yards and an incinerator ash landfill.



Prior to implementation, E Sciences worked with the FDOT (who provided funding) to determine a scope of analytical services. E Sciences reconciled the proposed subsurface structure locations (drainage structures, light fixtures, etc.) identified on construction plan sheets with the existing corridor conditions and proximity to potentially contaminated areas. Due to the high number of utilities anticipated to be located in close proximity to the drilling locations, E Sciences engaged a private utility location contractor to locate underground utilities using ground penetrating radar and electromagnetic radiation surveys, in addition to review of City plans and coordination with Sunshine One Call. A Maintenance of Traffic (MOT) plan was prepared and submitted to the City prior to field activities.

In addition to an assessment report, E Sciences provided general notes and bidding specifications language outlining requirements for managing contaminated soils and groundwater to be incorporated into the bidding and contract documents for this project. During construction, we assisted the City in working with the contractor to minimize impacts to construction and keep the project moving. This "stimulus" project meant deadlines were critical and the work needed to be expedited. We developed a scope of work, met with FDOT to negotiate the scope, conducted private utility location, developed an MOT plan, and initiated the sample collection within 13 days of the first phone call. Our draft report was provided to the CRA within an additional 12 working days. This project was completed to the satisfaction of the CRA and FDOT and we delivered the project under budget by more than \$12,000.

**Fire Station #49:** This project was undergoing redevelopment with a new City fire station when petroleum contamination was discovered during construction. E Sciences mobilized to the site the same day as requested to further investigate the implications of this finding on construction and regulatory notification. Historic and regulatory records indicated historic underground storage tanks on the property. Consultation with regulatory agencies, collection

of soil and groundwater samples and sound environmental judgment allowed this project to proceed with minimal time delay and costs to the project. E Sciences also conducted air monitoring for construction workers to evaluate potential health implications of exposure to the unknown products discovered and to provide the City with appropriate supporting documentation.

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



**Wingate Landfill Burrowing Owl Relocation:** This hazardous waste superfund site has undergone regulatory closure. A protective cap system was installed at this closed municipal landfill to eliminate potential exposure to contaminants and to prevent migration of contaminants from the landfill into the groundwater. A condition of the closure is conducting monitoring of groundwater, surface water and fish tissues on a periodic basis for a period of 30 years. During a five-year inspection, the EPA identified the presence of two burrowing owl burrows on top of the capped area of the landfill. The EPA directed the City to remove the burrows and evaluate the

integrity of the landfill cap. E Sciences was engaged to evaluate the possible damage, and coordinate burrow removal with state and federal regulatory agencies.

The burrows were scoped using a remote camera and video recorder in an effort to assess whether or not the owls had affected/damaged the geomembrane, and to assess whether there were owls present within the burrows. It was determined that there were no adults, eggs or flightless young in the burrows. The burrows were excavated, and it was found that the cap had not been adversely affected. Following coordination with the EPA, and the FWC, starter burrows were created outside of the cap area to encourage relocation of the owls. The old burrows were removed, and the owls relocated to the area outside the landfill cap.

**FXE Endangered Species Surveys, Permitting and Relocation:** E Sciences has conducted multiple endangered species surveys, migratory bird and gopher tortoise relocation permitting and relocation efforts for proposed construction projects at FXE. Endangered species encountered, permitted or relocated include burrowing owls and gopher tortoises.

**FXE Proposed U.S. Customs and Border Protection Facility:** E Sciences was engaged by the City to assist with understanding the outstanding environmental and regulatory issues at a tenant space at the FXE as part of the planning for a future U.S. Customs and Border Protection Facility. The property is currently occupied by another private tenant who historically operated two fueling facilities: one abandoned in place and one recently taken out of service. Our scope of services included tenant interviews, a site visit, review of the tenant's consultant assessment reports, and communications with Broward County's EPGMD. This project is continuing as E Sciences provides periodic updates and advises the City in ways to reduce the potential for liability associated with these former fueling systems and reduce the potential for impacts to construction.

**Progresso Village Neighborhood:** E Sciences conducted a Phase I ESA for the City's Neighborhood Services group in order to support application for federal funding for decorative entranceway signs.

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

**FXE Fuel Spill Regulatory Assistance:** Due to damage to an aircraft fuel tank caused by a low speed collision between two airplanes at Fort Lauderdale Executive Airport, a jet fuel discharge occurred and was reported to EPGMD. Immediately after the incident, staff employed emergency procedures and properly managed the spill. E Sciences was initially called in to conduct soil testing to determine if the soils in the area were impacted with jet fuel. Upon E Sciences' review of the documentation, it was determined that the discharge had been sufficiently managed and that the activities should not require soil assessment or a formal discharge report, which would trigger a requirement to conduct a Site Assessment. E Sciences provided documentation and communications sufficient for EPGMD to conclude that the reported discharge did not require further assessment and remediation.

**Melrose Manors Neighborhood:** E Sciences conducted a Phase I ESA and HUD Environmental Review for the City's Neighborhood Services group in order to support application for federal funding for decorative light posts.

**Fort Lauderdale Low Level Bridges:** E Sciences provided asbestos surveys in anticipation of demolition and reconstruction of three low level neighborhood bridges for the City. The survey reports for the Harborage, Marcetta River, and Carlotta River met the requirements for FDOT to provide funding for the projects.

**Fire Station #46:** E Sciences was contracted by the City to provide an indoor air quality survey to evaluate comfort-related issues posed by building occupants regarding indoor air quality. The scope of services included a walkthrough of the building; interviews with building occupants; observations of the air conditioning systems; measurements for temperature, relative humidity, carbon monoxide, and carbon dioxide in each building area; and moisture readings in areas where either visible indications of moisture impact were noted or that were reported by building occupants.

**HUD Environmental Documentation and Area-wide Floodplain Management Eight-Step Decision-Making Process:** To enhance the quality of life in our neighborhoods, the Fort Lauderdale City Commission has established four Community Investment Programs: the Neighborhood Community Investment Program, the Neighborhood Community Investment Grant Program, the Business Community Investment Program, and the Business Community Investment Grant Program. The goal of these programs is to provide matching grant funds for the construction of community improvements in the City's right-of-ways that beautify neighborhoods and enhance the quality of life for those who live, work, and visit the City of Fort Lauderdale. The majority of individual actions considered for these projects include the following: street name decorative posts, entryway monuments, entryway signs, concrete curbing, swales, sidewalks, median islands, decorative lighting, solar decorative lighting, landscape lighting, trees, landscaping, and irrigation. E Sciences has prepared numerous environmental documentation packages to support HUD funding for the City of Fort Lauderdale's neighborhood improvement projects. The majority of these involved the preparation of Environmental Checklists in compliance with HUD regulations. E Sciences also prepared an Area wide Floodplain Management Eight-Step Decision-Making Process for them to utilize when projects are located within a 100-year floodplain as defined by the Federal Emergency Management Agency.

**Benthic Surveys for Sylvan Lake Canal and Seminole River Canal:** E Sciences conducted benthic resources surveys to support dredging projects in two City-maintained waterways. E Sciences' biologists snorkeled each site to observe the presence of regulated benthic resources (i.e. seagrasses, corals, etc.) E Sciences' staff provided the City reports to accompany their permit applications.

**Environmental Assessment – South Middle River Improvement:** E Sciences' completed an environmental assessment of the project area to satisfy HUD financial support for paving and drainage improvements along a section of the South Middle River neighborhood. E Sciences completed an Environmental Review and completed the Statutory Worksheet for HUD projects Categorically Excluded per 24 CFR Part 58.25(a) to determine whether or not the project will have a significant impact on the environment. The Worksheet includes an environmental assessment of potential impacts to historic properties, floodplain management, wetland protection, coastal zone management, sole source aquifers, endangered species, Wild and Scenic Rivers, air quality, farmlands, environmental justice, noise abatement, explosives and flammables, toxic and radioactive chemicals and airport clear zones. The results of the evaluation determined that the project was not categorically excluded and required completion of the NEPA Environmental Assessment Checklist, revising the Statutory Worksheet in the Environmental Assessment Worksheet format, and a Finding of No Significant Impact (FONSI) to satisfy HUD financial support. In addition, E Sciences had previously completed the Eight-Step Decision Making Process for Floodplain Management for the project area, which was included as part of the documentation. The Eight-Step Decision Making Process is completed in order to evaluate compliance for Projects located within a floodplain or within a designated wetland. In this case, it was triggered by the location of the project within a floodplain and included public notice, evaluation of practicable alternative locations, identification of potential direct and indirect impacts, evaluated minimization of impacts and restoration and preservation of beneficial values of the floodplain.

**Environmental Assessment – Grace Community Development:** E Sciences was contracted to perform a HUD Environmental Review for an industrial property that was proposed to be redeveloped as a community center. The Environmental Review consisted of the Statutory Worksheet for Categorically Excluded projects. The preparation of this worksheet requires coordination with environmental regulatory agencies, including the State Historic Preservation Office, the FDEP, and the EPA. The Statutory Worksheet includes a Determination section with three options. If the project does not require mitigation for compliance with listed statutes or authorities, nor require formal permit or license, then it converts to Exempt status. Based on the proposed change in use of the property, it was determined that the project does did qualify as a Categorical Exclusion and required a higher level of review. Therefore, E Sciences completed an Environmental Assessment and completion of the HUD's NEPA Environmental Assessment Checklist, including an alternatives analysis, and the Environmental Assessment Worksheet to comply with federal laws and authorities.

**Statutory Worksheet – Community Redevelopment Agency Resurfacing Projects:** The City required an environmental evaluation of the project area to satisfy HUD requirements for providing financial support for resurfacing streets within the Fort Lauderdale CRA boundary. The approximate area of the project encompassed approximately 1,400 acres. The scope of our services included the preparation of an Environmental Review to comply with federal laws and authorities that would apply to HUD under the NEPA. The City had previously submitted an Area-wide Floodplain Management Eight-Step Decision-Making Process to HUD for projects of similar nature and scope that are eligible for Community Development Block Grant (CDBG) funds. However, this particular activity (resurfacing) was not contemplated by the City at the time of the preparation of the Area-wide Floodplain Management Eight-Step Decision Making Process documentation. Based upon our review of Federal Emergency Management Agency (FEMA) maps, the projects contemplated under this environmental review included areas within the floodplain requiring that the City evaluate the project in those areas in accordance with the citywide process. E Sciences performed a review of the CRA area and review of internal and public documents to evaluate existing environmental conditions as they relate to HUD regulations within the CRA and potential for impacts. The final deliverable was a Statutory Worksheet with the supporting documentation verifying compliance.

## City of Miami Beach Coastal Engineering Continuing Services

### Client:

City of Miami Beach

### Key Personnel Involved:

Nadia Locke, PE; LEED, AP, Maria Paituvi, PE; Patricia L. Gertenbach, PG; Gayle Stone, MS, Jennifer Savaro, MS, Cavel Williamson, Rachel Vitek, GISP, Junnio Frexia, Matthew White, Nicole Pollio, Brian Voelker, MS, Justin Freedman, MS

### Key Subcontractors Involved:

JAEE Environmental, Inc., Ground Hound Detection Services, Inc. and AirQuest, Moffit and Nichol, BCC Engineering

### Similar Types of Projects to Pompano Beach:

Environmental Permitting, Site Assessments and Site Assessment Report Preparation, Phase I and Phase II ESAs, Monitoring Well Installation, Soils and Groundwater Sampling and Report Preparation, Asbestos Surveys and Remediation Recommendations, Water Quality Evaluations

**Description:** E Sciences was awarded a contract with the City of Miami Beach to conduct environmental engineering services. To date, E Sciences has provided the City with consulting services including the following:

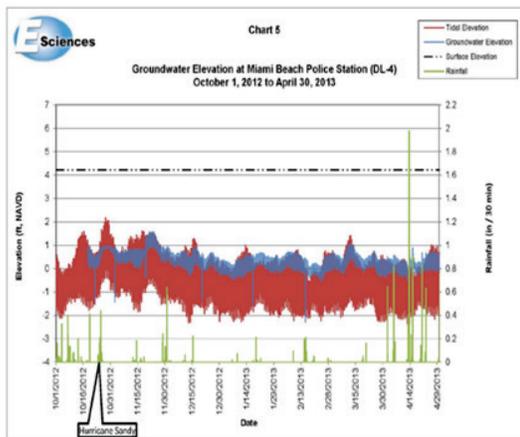
**Properties Adjacent to Miami Beach Convention Center:** In preparation for redevelopment of City owned properties to enhance the convention center area, E Sciences conducted a Phase I ESA for land parcels adjacent to the Miami Beach Convention Center. These parcels included a parking lot west of the convention center, the 21st Street Community Center and Bandshell north of the convention center and the Fillmore theatre. The Phase I ESA revealed the operation of a historic golf course on the project sites. This finding was identified as a REC based on the potential historical application of herbicides and pesticides on the ground. A Phase II ESA was conducted by E Sciences to evaluate the potential presence of soil and groundwater impacts based on the historical use of the sites. Incremental Sampling Methodology (ISM) was selected as the soil sampling approach. ISM results were indicative of the presence of arsenic concentrations above approved naturally occurring concentration criteria specific for Miami Beach. Limited groundwater impacts were detected in one area. E Sciences assisted the City in evaluating a viable development approach to address the onsite impacts. Upon coordination with Miami-Dade County Department of Regulatory and Economic Resources (RER) Department, the City has elected to implement a combination of ECs and source removal efforts as part of the development plan for the sites. Off-site assessment activities have been deferred to a later date. E Sciences documents were included as part of the bidding documents to provide guidance to the development contractor.

**Proposed Miami Beach Convention Center Headquarter Hotel:**

E Sciences conducted a limited site assessment for a site including a portion of the Fillmore Theater and parking areas adjacent to the Convention Center. This assessment was conducted based on the former presence of a golf course discovered during a Phase I ESAs conducted by E Sciences for adjacent properties. The assessment included soil and groundwater sampling and confirmed the presence of localized soil arsenic impacts and the presence of nitrate concentrations above groundwater cleanup criteria at the site. The City indicated that they would address these discoveries during development planning and implementation at a future time.



**Sea Level Rise (SLR) Evaluation:** E Sciences, Incorporated was engaged by the Miami Beach to evaluate areas within the City in anticipation of SLR. The purpose of the study was to evaluate low-lying areas vulnerable to flooding and SLR within Miami Beach based on the assumption that the groundwater levels are tidally influenced and therefore flooding may also be influenced or exacerbated by tidal fluctuations. These areas were identified as areas with limited soil storage capacity and where SLR is expected to further reduce the soil storage capacity. To accomplish this, E Sciences monitored groundwater elevations, tidal elevation and rainfall data over a period of twelve months. As part of this study, groundwater levels were compared to tidal conditions to evaluate the correlation between fluctuations in mean tide and mean high water. The data collected was used in conjunction with LiDAR topography to model vulnerability and provide valuable information to assist on future infrastructure planning for the City.



The E Sciences team (including Florida Atlantic University) developed a Soil Capacity Model intended to help identify areas of potential short- and long-term flooding and areas where SLR is expected to reduce unsaturated soil storage capacity further. The results of this model were contoured to provide a spatial representation of flood prone areas.

E Sciences submitted a report to the City presenting our methodology, the results of the study in narrative, charts and graphics, and recommendations. E Sciences presented interim findings of this study at the Water Symposium held by the South Florida Association of Environmental Professionals as part of a presentation titled “Integrating Engineering and Environmental Strategies to Mitigate for, and Adapt to, Climate Change Impacts to Coastal Urban Communities.” We were also requested to be a collaborator and advisor on a research project titled Environmental Finance and Risk Management for Coastal Urban Resilience: Sustainability in South Florida Through Investment-Driven Ecology with the University of Miami, Florida State University, Florida International University and the University of Hawaii.

Since the completion of this city-wide study, the City engaged E Sciences in the evaluation of groundwater elevation trends in the Sunset Harbor neighborhood. E Sciences provided technical training and support to the City on equipment installation and maintenance, data download and evaluation, and modeling efforts.

**SPCC Plans:** E Sciences prepared SPCC Plans for 12 facilities located throughout Miami Beach. These facilities included pump stations, fire stations, public works yard, Miami Beach Golf Club and the Convention Center. E Sciences’ approach for developing the SPCC Plan(s) followed the steps outlined in applicable federal regulations (Title 40 CFR Part 112). The Plans were reviewed and certified by an E Sciences Professional Engineer. We also incorporated provisions to assist the City with compliance with state and local regulations. We conducted the following activities to obtain the information required to complete the Tier I SPCC Plans:

- Review available as-built drawings, surveys and plans related to the structures and drainage pathways
- Conduct a site visit of each facility with a person knowledgeable of the facility’s tank systems, coordinated through the City’s Environmental Department
- Interview the site manager or other personnel familiar with the tank systems and other oil storage systems
- Review records of previous spills
- Evaluate topography and surface water flow regimes
- Evaluate areas of obvious discharge potential and spill sources

- Identify environmentally sensitive areas and potential receptors if a spill were to occur
- Document security measures to prevent unauthorized access to oil handling
- Develop a list of emergency response personnel
- Review the City's spill response measures
- Review records of tank integrity and pressure tests
- Review the City's personnel training records

**Green Waste Facility:** This site was an undeveloped, bermed area located on the east side of the Miami Beach Golf Club. The site was previously used by the City of Miami Beach for solid waste management, and a portion of the area contained buried debris. In anticipation of constructing a wastewater reclamation facility, the City implemented a material screening plan to remove the buried solid waste and screen out the larger (greater than 2-inches) pieces of solid waste for off-site disposal. The recovered screened material (RSM) was merged with a berm around the solid waste handling area to separate it from adjacent properties and the golf course. The larger pieces of debris removed consisted primarily of rock, concrete and wood. Miami-Dade Regulatory and Economic Resources required the City to demonstrate that there was a minimum of two feet of clean fill or other ECs in place covering areas of solid waste in or around the berm in order to pursue regulatory closure for the site.



E Sciences conducted environmental services to evaluate the top two feet of soil layer covering the berm. To complete the project in a time and cost-effective manner, E Sciences developed a phased sampling approach by collecting the necessary samples but conducting laboratory analysis on an iterative basis. The initial sampling results revealed the presence of regulated contaminants above regulatory criteria, therefore additional analysis was not deemed necessary. The City elected to implement an ECs to achieve conditional site closure along with the adjacent golf course property, protecting human health and the environment. E Sciences prepared an EC design and provided oversight and regulatory coordination for the installation of the EC. The design and installation of the EC received regulatory approval, and E Sciences assisted with drafting the restrictive covenant to be used for the final conditional closure.

**Fleet Management Facility:** E Sciences conducted groundwater and soil assessment activities at the active City's fleet management facility. The assessment was completed in order to evaluate the presence of contamination associated with a historical petroleum discharge documented in 1992. This assessment revealed the presence of free-floating product in the groundwater and soil impacts within a localized area at the facility. E Sciences prepared and submitted a Site Assessment Report Addendum (SARA) including source removal plan recommendations. The SARA and source removal plan received regulatory approval from RER. E Sciences recently prepared a Monitoring Only Plan (MOP) as part of a Consent Agreement between RER and the City to maintain certain environmental provisions on the site while waiting to implement cleanup and remediation efforts during the anticipated development of the property. The MOP was approved by RER, and E Sciences is conducting groundwater monitoring in lieu of active remediation.

**Tree Inventory:** E Sciences has completed a six-phase, City-wide inventory encompassing trees on all municipal properties, including streets, parks, government centers, etc. A total of 48,650 trees were inventoried. The work was conducted using sub-meter accurate global positioning equipment. E Sciences provided the City with an ESRI ArcGIS shape file. The work included assessing each tree for its general condition and providing recommendations for maintenance.

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

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

**Groundwater Elevation Monitoring and Mapping Support, Sunset Harbor:** E Sciences assisted the City of Miami Beach with the completion of a groundwater elevation monitoring study in the Sunset Harbor neighborhood. This study was conducted by the City to evaluate the soil storage capacity within this area to support the design and installation of a stormwater management system.

E Sciences provided the City with training and support during installation of the equipment and data collection, data management and modeling efforts. We understand that the City has successfully installed equipment and downloaded data with the assistance of E Sciences personnel.

## City of North Miami Beach General Environmental Engineering Services

### Client:

City of North Miami Beach

### Key Personnel Involved:

Nadia Locke, PE, LEED AP; Rachel Vitek, GISP; Maria Paituvi, PE; Patricia Gertenbach, PG; Matthew White

### Key Subcontractors Involved:

JAEE Environmental, Inc., Ground Hound Detection Services, Inc. and AirQuest

### Similar Types of Projects to Pompano Beach:

GIS Mapping, Data Management, Site Assessments and Site Assessment Report Preparation, Phase I and Phase II ESAs, Monitoring Well Installation, Soils and Groundwater Sampling and Report Preparation, Air Quality Testing and Associated Reports, Asbestos Surveys and Remediation Recommendations and Reimbursement Support Services for Remediation

**Description:** E Sciences maintains a continuing services contract with the City of North Miami Beach to conduct environmental engineering services on an as-needed basis. Through this contract, we have provided the following services to support the City:

- Phase I ESAs
- Compilation of bids for services such as pre-demolition (asbestos, lead paint) surveys and debris removal
- Guidance on requests for off-site sampling
- Attendance and representation at various venues such as City Council and CRA meetings.



In addition, the following projects have been completed to date:

**Taylor Park:** Taylor Park has been slated for redevelopment since 1999, when the FDEP had a Brownfields Assessment conducted. The assessment revealed the presence of metals and petroleum contamination in the soil and metals contamination in the groundwater. In 2005, assessment activities revealed the presence of buried solid waste within most of the 21.8-acre property. Since that time, environmental issues have continued to restrict and complicate redevelopment efforts for the property. The property was previously occupied by an inactive baseball field, a daycare facility, vacant land, and a lake.

In the summer of 2009, E Sciences was contracted by the City to move the assessment, cleanup and redevelopment of the property forward. As a team, E Sciences, the City, and Akerman Senterfitt developed a comprehensive approach to coordinating management of the environmental issues at the site with the redevelopment of the property as a community park. Our approach involved the following:

- Working with Miami-Dade Fire Rescue and the daycare staff to manage the potential methane issues at the property.

- Seeking community input (we conducted two meetings with interested residents).
- Integrating the remedial approach into the master planning process.
- Identifying opportunities for ecological enhancements to the property and water quality improvement for the lake.
- Working with the City to assist in submitting an application for Brownfields Grant for Remediation.

Innovative techniques employed included conducting risk assessment of arsenic impacted areas to the satisfaction of the regulatory agency, geophysical surveys to identify the extent of buried solid waste and evaluating areas with higher concentrations of contaminants to plan for possible source removals. Remediation alternatives proposed included the following:

- Source removal.
- Continuous methane monitoring within the structures on-site.
- Installation of a surface cap to prevent infiltration of stormwater and exposure to buried materials.
- Quarterly methane monitoring at the site perimeter and interior of building.
- Quarterly groundwater monitoring.

E Sciences submitted the assessment and conceptual remedial design to the Miami-Dade County Department of Environmental Resources Management and received approval in 2011.

The City ceased performing additional assessment and remedial actions due to funding limitations. The Miami-Dade County Department of Solid Waste Management (DSWM) has since assumed responsibility for assessment and remediation of the Site. The City and the County are working together to complete the assessment and remediation to accommodate the planned redevelopment of the park. The Site was accepted into Florida's Brownfields Program through execution of a Brownfield Site Rehabilitation Agreement on December 16, 2015. E Sciences completed the remediation of the site and it is now ready for redevelopment.

**Washington Park Soil Testing:** As a precautionary measure and at the City's request, E Sciences conducted soil testing at Washington Park, prior to planning for future redevelopment. Unaware of any spills or releases at the park, the City elected to test the soil in-situ prior to engaging a contractor to evaluate whether the soil required handling as "contaminated". Based on the known use of the property, the analytical scope was selected to include arsenic, pesticides and herbicides. Sampling was limited to the open ground accessible areas of the site. This project was time sensitive and was completed in two weeks from proposal to submittal of findings. This final report was submitted to the City in May 2019.



**Asbestos Removal City Hall 3rd Floor:** As part of the City Hall renovations, the City planned on the removal of the floor tile located within room numbers 301, 302, and 303 and the associated hallways prior to renovation activities. Because the floor tile was old and had the characteristics of typical vinyl asbestos tile, the City suspected that the material contained asbestos and elected to remove it in a prudent manner. The City requested that E Sciences coordinate the following services to be completed by a licensed asbestos consultant and removal contractor: asbestos survey of the flooring to confirm asbestos content; removal of asbestos content if present; conduct on-site asbestos awareness training; air clearance testing and monitoring; and provide documentation of project completion. The final Report of Abatement Oversight and Air Monitoring was submitted to the City in November 2014.

**Stormwater Support Services:** In order to assist the City with their stormwater management and NPDES programs, E Sciences developed three main tasks. The first task was to georeference and digitize the Stormwater Atlas that the City utilized to map their stormwater system. Under this task, E Sciences developed a GIS database converting the Stormwater Atlas (which was in pdf format) into a GIS database and accompanying attribute table; the final database included links to the applicable plan set for each component. The second task completed was the update of the City's 1993 NPDES Operating Manual to meet the new, Third Term NPDES MS4 permit conditions, such as developing SOPs, and developing systems for tracking program components such as maintenance, street sweeping and training. The third task was to develop a citywide stormwater master plan to assist the City with updating existing infrastructure, refining and prioritizing future stormwater infrastructure needs, and reviewing and updating codes (as needed). E Sciences reviewed extensive sources to gather the necessary data to develop a stormwater model and master plan for the City. The Stormwater Master Plan was deferred to a later time when the additional data collection necessary to complete the study could be collected. These services were provided to the City in 2015.



## TCRPC Brownfields Grant Overview

**Client:**  
TCRPC

**Key Personnel Involved:**  
Nadia Locke, PE, LEED AP; Maria Paituvi, PE

**Key Subcontractors Involved:**  
JAEE Environmental, Inc. and Ground Hound Detection Services, Inc.

**Similar Types of Projects to Pompano Beach:**  
Site Assessments and Site Assessment Report Preparation, Phase I and Phase II ESAs, Monitoring Well Installation, Soils and Groundwater Sampling and Report Preparation, Asbestos Surveys and Remediation Recommendations and Reimbursement Support Services for Grants

**Description:** E Sciences provided environmental consulting services in support of the implementation of the TCRPC's Brownfields program funded through EPA assessment grants. In this role, E Sciences conducted Phase I and II Environmental Site Assessments, site assessments and remediation planning. We also supported EPA required reporting to comply with grant provisions. The following highlights some project examples that we completed under this contract.

**Phase I ESA, 101 SW 13th Avenue Delray Beach:** E Sciences conducted Phase I ESA for this property located within the City of Delray CRA to assist the City in the consideration for potential purchase and redevelopment of the property. The completion of a Phase I ESA required a historic site and vicinity land use research, regulatory review and field reconnaissance of the site and surrounding area. The goal of the Phase I assessment was to identify potential sources of environmental contamination that constitute RECs. The Phase I ESA report was prepared in accordance with ASTM International (ASTM), Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13.

**Phase I ESA, 702 NW 6th Avenue Property, Fort Lauderdale:** E Sciences conducted Phase I ESA for this property located in an industrial area in the City of Fort Lauderdale in accordance with ASTM E 1527-13 guidelines. E Sciences also conducted a Tier 1 and non-invasive Tier 2 vapor encroachment screening (VES) in general accordance with the ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (Designation E2600-15). The Site was initially developed with a one-story concrete building in 1956 and it has been used to service high performance automobiles for 50 years. The historic use of the Site as an automotive repair facility for 50 years provides opportunities for inadvertent discharges of petroleum products or solvents at the site over time. While we did not identify reported incidents of discharges to open ground or violations documents with the regulatory agencies, our observations of stained pavement and staining in areas not fully paved indicate that some surface soils are likely impacted by petroleum products. The historic use of a septic tank system during the time of the operation of the automobile shop was considered to provide a potential conduit for liquid products that are put in sinks to enter the environment. A historic inground lift had reportedly been removed from service due to a leak. The leak was described as coming from the aboveground portion of the lift; however, it is considered possible that underground leakage may have gone unnoticed since no assessment or evaluation was conducted. E Sciences did not identify a Vapor Encroachment Condition (VEC) at the site but recommended that the VES be re-evaluated if contamination was later identified at the Site.

**Generic Quality Assurance Project Plan (QAPP):** Under the requirements of the EPA Brownfields Assessment Coalition Grant, when environmental data is collected, TCRPC must comply with 2CFR1500 requirements to develop and implement quality assurance practices sufficient to produce data adequate to meet project objectives and to minimize data loss. EPA must approve a QAPP prior to beginning assessment of each property. E Sciences prepared a Generic QAPP that will be used as a basis for all environmental testing conducted under this grant and therefore included relevant quality assurance information from all consultants and laboratories that will be conducting sampling and analysis on projects under the grant.

**ISD Vacant Lot, NW 37th Avenue and Miami Gardens Drive, Miami Gardens:** This vacant lot has been identified as a redevelopment opportunity for Miami-Dade County. E Sciences completed a Site Assessment Report to assess contamination from this former solid waste disposal facility in July 2017 and Analysis of Brownfields Cleanup Alternatives (ABCA) for the ISD vacant lot owned by Miami-Dade County. We evaluated the feasibility and opinions of costs for three cleanup alternatives to support future redevelopment planning and implementation.

E Sciences also worked with the City of Miami Gardens to incorporate the full property into the designated Brownfield Area (Carol City Area). This designation allows Miami-Dade County, as the property owner to enter into a Brownfield Site Rehabilitation Agreement (BSRA), with the regulatory agency (Miami-Dade County Department of Environmental Resource Management (DERM)) in order to benefit from the regulatory and financial benefits of that brownfield program offers as well as liability protection. The County is in the process of engaging E Sciences to be the design criteria professional for full scale design and implementation of the remedial plan.

**Ballet Florida, 500 Fern Street, West Palm Beach:** The City of West Palm Beach CRA was conducting a Phase I ESA to support potential due diligence activities associated with assisting Ballet Florida, a professional ballet company located in downtown. Based on a review of historical information, the site was previously developed with residences and a variety of commercial and warehouse operations including furniture, telephone and office supply sales, and warehouse as well as telephone repair, the Everglades Club, and a “private laundry”. It was suspected that a portion of the site operated as a private laundry for the Everglades Club in 1920. Despite attempts to obtain additional information from historical societies and the current Everglades Club, the exact nature of the laundry activities could not be confirmed.



The historical review of the site area revealed the presence of large-scale lumber works in the areas east (at least 60 years) and north (at least 30 years) of the site. Lumber storage was identified on historic maps to be as close as 75 feet from the site’s eastern property line. E Sciences identified large areas of open coal storage adjacent to the site, between the property boundary and the railroad tracks to the east.

The assessment revealed the following Recognized Environmental Conditions (RECs) in connection with the Ballet Florida site:

- The historic laundry facility is considered a REC
- The previous lumber operations in the area are considered to be a REC
- The historic open coal storage immediately adjacent to the site is considered a REC

E Sciences recommended a Phase II ESA for this property. However, a Phase II ESA was not conducted. This project was awarded to E Sciences because we were able to respond quickly despite the need for the work to be conducted over the Thanksgiving Holiday. The report was delivered within five business days of email authorization to proceed. This schedule complied with the directive to provide the report as soon as possible.

#### **Seaboard Train Station, 201 Tamarind Boulevard, West Palm Beach**

**Beach:** This Phase I ESA was conducted to support securing financial assistance for pedestrian enhancement for transit riders from the FDOT. This Phase I ESA was not intended to support a real estate transaction, as the City already owned the property. As such, the focus of the assessment was to identify potential environmental issues that may impact the pedestrian enhancement construction project. Historic documentation revealed an old UST located within the right-of-way near the proposed improvements likely attributable to a store historically located on the property and groundwater monitoring wells in other areas of the property.



Because this was not a typical real estate transaction, E Sciences prepared a map of areas of potential contamination to support the design process and recommended that if the proposed construction activities occur in the vicinity of these two potential RECs. The project engineer for the pedestrian enhancement project reviewed the scope of the work to determine how these findings may affect the project. It was also advised that the review be coordinated with an environmental professional who can assess how these potential RECs may affect the construction or design. E Sciences further indicated that environmental impacts can be managed with proper planning in order to inform FDOT that potential contamination issues should not stop the project funding, but rather be a consideration during planning and construction. This project is just one example of E Sciences' ability to work with our clients in removing environmental impediments to redevelopment opportunities.



**Former West Palm Beach City Hall:** West Palm Beach's abandoned City Hall has been identified as the CRA's prime site for redevelopment. It is the City's vision to bid the project to be redeveloped as an urban, waterfront hotel. E Sciences was requested to assess the environmental condition of the site as they prepare for the bidding process. Our services began with a Phase I ESA and we identified numerous historical land activities that could result in contaminated soil and groundwater. Historical land uses included automotive repair facilities with underground storage tanks, laundry facilities, railroad spurs and industrial/manufacturing activities. Using geophysical surveys and overlays of historical land uses onto current aerial photos, we identified our soil and groundwater sampling locations. Following preparation of a Site-Specific QAPP, we implemented a Phase II ESA and then an FDEP rule-compliant Site Assessment Report (SAR). We did not identify groundwater impacts, but soil impacts were detected. The soil impacts are surficial, beneath the parking lot and it is our opinion that they are a result of the weathering of 30 years of asphalt covering, not from a discharge. Following the SAR, we prepared an Analysis of Brownfields Cleanup Alternatives.

**Innovations:** Historically, there has been no vehicle for the regulated community to use reasonable judgment to justify a No Further Action when contaminants are detected on a site but when there is no source of contamination identified. On this project, we are utilizing FDEP's new guidance that allows for us to utilize a "weight of evidence" demonstration that detected parameters are not site-related and do not require remediation. Using the rationale in this document, we are

requesting that in lieu of remediation during site development, soils disturbed and disposed are managed properly under a soil management plan. This will allow redevelopment of the former City Hall property and save about \$1M in unnecessary remediation costs. The EPA and TCRPC featured this project during a trolley tour at the 16th Annual Florida Brownfields Association conference.

Concurrent with the assessment activities, E Sciences prepared another Site-specific QAPP for conducting an asbestos survey. A QAPP for asbestos is unique because it is not really addressed in the Generic QAPP. The EPA project officer indicated that was required only because it was a large asbestos survey. Following EPA approval, our subconsultant conducted a full pre-demolition asbestos survey.

During the asbestos survey, a material mined in Canada associated with asbestos mines (but not asbestos) was identified during review of building plans. This material was similar to vermiculite and was used to fill the holes in the concrete blocks in the walls. We proposed a new sampling protocol with FDEP that was accepted to minimize the number of samples required to be representative of the materials and to keep the material from flowing out of the walls potentially causing a pathway for the material to enter the environment.

## Resumes of Key Personnel

E Sciences has provided resumes of our key professional staff and our subconsultants AirQuest, Intercounty, and QuEST key professional staff for the City's consideration.

### **N**adia Locke, PE, LEED AP Contract / Project Manager

Ms. Locke has been providing professional environmental and engineering consulting services for over 30 years. During her career, she has worked in many facets of environmental consulting including environmental audits, site assessment and remediation, stormwater design, sanitary sewer planning, environmental permitting, climate change impact evaluation, grant assistance, wetland mitigation design, endangered species relocations, Brownfields, community involvement, and training. Ms. Locke has provided litigation support for the FDOT, Miami-Dade Aviation Department, Barry University and private entities.

Ms. Locke is former Chair/President of the Smart Growth Partnership (SGP), Florida Brownfields Association (FBA) and South Florida Association of Environmental Professionals. She served as a commission-appointee to the Broward County Brownfields Redevelopment Task Force and on the Community Advisory Board for the Broward County MPO. She also served as FBA Secretary, Co-Chair of the 17th Annual Conference and Co-Chair of the Technical Subcommittee of the Legislative and Policy Committee. She serves on the Fort Lauderdale Riverwalk Advisory Board.

Ms. Locke specializes in managing municipal contracts, having experience with multiple southeast Florida cities such as Pompano, Miami Beach, Fort Lauderdale and Hollywood.

She has been engaged in Brownfields since the inception of the program and has been conducting Phase I environmental site assessments, contamination assessment and remediation in Florida since the late 1980s. Her work for both the public and private sectors provides her with a unique understanding and practical approach to implementing cleanups both inside and outside of the Brownfields program. She has conducted public involvement and outreach on a variety of projects and on behalf of community or non-profit organizations such as the FBA and SGP. Ms. Locke is on the Board of FBA Environmental Justice Foundation.

Ms. Locke has been working on transportation projects in South Florida for over 20 years. As an engineer who works closely with scientists, she brings an understanding of the environmental, ecological and permitting issues associated with roadway design, construction and commitments. She has worked with several cities, including the City of Pompano Beach in preparing environmental documents for FDOT funded LAP projects.

She has been working on stormwater management projects in South Florida for over 15 years. As an engineer who works closely with scientists, she brings an understanding of the environmental, ecological and permitting issues associated with infrastructure design, construction and commitments. Ms. Locke has supported E Sciences stormwater master planning and NPDES permit compliance support projects for FDOT and local governments.

#### **Education**

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

#### **Professional Licenses / Certifications**

Professional Engineer: FL-58676

LEED AP Neighborhood Development

Certified FDEP Stormwater, Erosion and  
Sedimentation Control Inspector and  
Instructor

OSHA 40 Hour HAZWOPER / 8 Hour Site  
Supervisor

NAUI/PADI Advanced Open Water Diver

**Years of Experience 32**

## Project Experience

**Continuing Contract for Environmental Engineering Services, City of Pompano Beach Pompano Beach CRA, Broward County, Florida** — Ms. Locke is the contract manager for this continuing services contract. Through this contract, E Sciences has conducted Phase I and Phase II ESAs for several parcels in preparation for the CRA's redevelopment planning. She has worked with the CRA to consider options on how to safely manage construction on a solid waste disposal site and is preparing has prepared environmental documentation to satisfy NEPA requirements on a federally funded LAP project. E Sciences also evaluated the suitability of three vacant, CRA-owned parcels for use as community garden for the local school. The community garden will be used to teach children about agriculture and healthy food choices. Vegetables grown on these lots will be used to provide fresh vegetables for families and children in the community. Under this contract E Sciences prepared environmental information and documentation to satisfy Health Resources and Services Administration grant application requirements. The project was conducted to support the potential redevelopment of CRA parcels with a much-needed community health care facility. The documentation was required for the grant applicant to comply with NEPA.

**Environmental Review and Permitting for LAP Project for NW 36th Avenue Pedestrian Enhancement Project, Pompano Beach, Florida** — Ms. Locke is the senior technical reviewer for conducting an environmental screening memo and environmental permitting for this FDOT-funded bicycle and pedestrian enhancement project. As part of the review, E Sciences is preparing the environmental notes to be included in the constructability.

**Old Pompano Improvements NEPA Review, Pompano Beach, Florida** — Ms. Locke was the project manager for preparing the environmental documents necessary for the City of Pompano Beach to apply for funding under the HUD for the area improvements for Old Pompano. The Old Pompano project area was first settled in the late 1800s with the extension of Henry Flagler's Florida East Coast (FEC) Railroad. The area was built to its current configuration during the early 1900s and has not been upgraded since that time. The existing infrastructure has become debilitated and is in need of repair or replacement. The purpose of the project is to revitalize the downtown area; the existing streets and avenues chosen for this project comprise the central core of Old Pompano. In addition, the streetscape design and specific infrastructure improvements were selected to continue and complement efforts in the Community Redevelopment Area neighboring the west side of the project. E Sciences' scope of services included preparation of an Environmental Assessment of the area in accordance with HUD guidelines and subcontracting a Cultural Resources Assessment to address Section 106 requirements.

**General Environmental Engineering Services, City of Fort Lauderdale, Broward County, Florida** — Ms. Locke is the contract manager for this continuing services contract for general environmental engineering consulting services for the City of Fort Lauderdale. Services conducted include emergency response during construction of a fire station; Phase I and Phase II ESAs / opinion of post landfill closure costs; endangered species surveys; burrowing owl permitting and relocation; benthic (seagrass) surveys; and indoor air quality / asbestos surveys. Some services have been provided to assist in ensuring environmental compliance for LAP projects.

**Sistrunk Boulevard Streetscape and Enhancement, City of Fort Lauderdale, Broward County, Florida** — Originally slated as a stimulus project where funds were being disbursed through FDOT District Four, Ms. Locke conducted a Level 2 assessment of a 1.25-mile corridor streetscape enhancement project located in the heart of the City of Fort Lauderdale CRA. Testing included Maintenance of Traffic, private utility location and collection of 36 soil and groundwater samples for laboratory analysis. Data was compiled and reported, and environmental notes/bid specification language was developed for bidding purposes. Ms. Locke also engaged the CRA in avoidance and minimization considerations and assisted the CRA with managing risks associated with environmental issues during construction.

**Shenandoah Neighborhood Replacement of Water Mains and Service Conversions, City of Miami, Miami-Dade County, Florida** — E Sciences provided environmental support for the design-build team for this project. Environmental services included a review of contamination and testing soil and groundwater impacts, tree conflict surveys, stormwater pollution plan development and permitting assistance. Ms. Locke provided leadership and technical oversight.

**Design Build SR-9/I-95 Express Lanes and Ramp Signals-Phase 3A-1, FDOT District Four, Florida** — Ms. Locke is the project manager for the environmental tasks associated with this design-build project. Under this scope, E Sciences provides assistance with permit modifications, contamination review, wetland impact analysis and dewatering permitting. E Sciences conducted the analysis and prepared the permitting documents so that dewatering could be performed under District Four's Master Dewatering Permit.

**Sullivan Park Master Planning and Expansion, Deerfield Beach, Florida** — E Sciences' scope for this contract included conducting a Benthic Resources Survey and providing the project team with a summary of permits that would be needed to redevelop the park as part of the master planning. Following the master planning, E Sciences prepared the environmental permit documentation for the project. Ms. Locke provided technical oversight on this contract.

**Adams Street Site Supplemental and Site Assessment, City of Hollywood, Broward County, Florida** — The Hollywood CRA wishes to divest itself of this property because it has excellent potential for redevelopment. It is adjacent to a planned new redevelopment, that will consist of three buildings along Adams Street, each operating as its own urban village for seniors with amenities such as a community meeting room, cyber café, fitness/wellness facility, and outdoor patio. While this site was initially intended to be included in this project, the presence of contamination documented during due diligence resulted in it being carved out of the redevelopment planning. Ms. Locke was the project manager for supplemental assessment activities to further evaluate the contamination impacts, determine if the impacts had migrated off-site and identify remedial options. E Sciences conducted an initial assessment to achieve these goals and subsequently completed a site assessment report for agency submittal. Ms. Locke presented the findings and provided recommendations for regulatory closure and pursuit of Brownfields designation at a CRA Board meeting. We provided a list of the benefits and challenges, costs and times for multiple options.

**General Environmental Engineering Services, City of Miami Beach, Miami-Dade County, Florida** — Ms. Locke is the contract manager for an ongoing contract to conduct miscellaneous environmental services. Tasks conducted to date include preparation of spill prevention control and countermeasure plans for 12 facilities including pump stations, fire stations, public works yard, Miami Beach Golf Club and the Convention Center (MBCC) and contamination assessment of the green waste facility. E Sciences is supporting the City in seeking conditional closure for contamination issues at a former solid waste facility and golf course, their fleet management facility and the MBCC. We also completed a study to evaluate a potential mooring field and have several ongoing environmental permitting projects for seawalls and the City's Baywalk. Ms. Locke is either providing project management or QA/QC on the City of Miami Beach projects.

**Corridor Study for SR-5/US-1/South Dixie Highway, FDOT District Six, Florida** — Ms. Locke was the project manager for the environmental study portion of this study. E Sciences prepared a planning level document that outlined potential project impacts related to environmentally sensitive and natural resources as well as potential contamination impacts to the project.

**Boynton Inlet Dredging Project, Palm Beach County, Florida** — Ms. Locke was the project manager for the environmental monitoring that E Sciences conducted for this dredging project. E Sciences staff conducted turbidity monitoring around the dredge and spoil disposition site locations. At times, we provided staff 24 hours per day to help keep the project on schedule. Daily monitoring reports were provided to FDEP within 24 hours of the monitoring event.

**TCRPC Brownfields Assessment and Remediation Services, Florida** — Ms. Locke manages E Sciences' contract with the TCRPC for conducting assessment and remediation services as part of an EPA Brownfield Assessment and Cleanup Grants. This contract focused on Phase I and Phase II Environmental Site Assessments and cleanup planning/estimating. Projects Ms. Locke has completed included Phase I and II ESAs for multiple properties within the City of West Palm Beach and their CRA. A notable project is the hallmark Former City Hall Building that has been recently bid for purchase and redevelopment. This project included Phase I and Phase II ESAs, a Site Assessment Report, Analysis of Brownfields Cleanup, and a Soil Management Plan. E Sciences is working directly with the CRA on a strategy to manage the environmental aspects of the project during the bidding and construction phase of the project now that the TCRPC grant has ended.

**General Environmental Engineering Services, City of North Miami Beach, Miami-Dade County, Florida** — Ms. Locke, as contract manager, provides ongoing environmental support to the City. She has conducted several Phase I ESAs for the City. Ms. Locke has held community meetings and represented the City at CRA and City Council meetings. One notable project is Taylor Park. **Taylor Park** has been slated for redevelopment since 1999, when FDEP had their contractor conduct a Brownfields Assessment of the site. The assessment revealed the presence of metals and petroleum constituents in the soil and metals in the groundwater. Assessment activities revealed the presence of buried solid waste on most of the property. Since that time, regulatory issues continued to restrict and complicate redevelopment efforts for the property. She was the engineer of record and project manager for the assessment and conceptual remediation design for the property. The remediation planning was closely coordinated with the community desires, the City's needs and the park master planners to ensure a solution to remedy the environmental issues in conjunction with all of the stakeholder needs. Ms. Locke provided QA/QC reviews on E Sciences' efforts to prepare a stormwater master plan and digitize their stormwater atlases.

**Private Brownfield Redevelopment, City of Fort Pierce, St. Lucie County, Florida** — This project was the first designated Brownfield site in the City of Fort Pierce. This historical dry cleaner was identified during a Phase I ESA for a real estate transaction. Since the FDEP "started the clock" for the assessment due date back when the Phase II ESA was conducted, the time frame for submittal of the initial site assessment was shortened by three months. Technologies employed included ColorTech screening, modified active gas assessment techniques, on-site laboratory analysis, direct push drilling and microwells. An interim source removal was conducted to facilitate and accelerate the groundwater remediation. Ms. Locke negotiated an alternative cleanup target level for soils and implemented two technologies for remediating groundwater. She applied this information into the development of a remedial action plan. Ms. Locke supported the Brownfields designation process by presenting at a neighborhood public meeting and representing the owner at the City Commission meeting when the site was designated.

**Broward County Mass Transit Copans Road Facility, Broward County, Florida** — Ms. Locke provided environmental oversight and reporting on this project, which was the largest UST system upgrade project in the State of Florida. The project included upgrade of a fueling system with 13 USTs and a combined total volume of 392,000 gallons. The upgrade also includes hundreds of feet of used oil piping within the bus maintenance building. Ms. Locke also negotiated \$50,000 reimbursement funding for the project under the State of Florida's Limited Source Removal Initiative. Prior to the upgrade, the scope included conducting a baseline assessment of the groundwater contaminant concentrations and support the bidding process for the design build project. The baseline assessment was designed to provide justification for state funding for residual petroleum impacts around the USTs and to aid in planning the management of impacted soil and groundwater during the UST replacement. While working on the baseline assessment, a fuel delivery resulted in an off-site diesel fuel discharge. Ms. Locke provided the county with guidance on how to abate the source, reduce potential third party liability, and assisted with negotiating an off-site access agreement. Ms. Locke then conducted a limited contamination assessment to satisfy the regulatory requirements.

**M**aria Paituvi, PE  
**Project Manager / Senior Engineer**  
**Task Lead Environmental Testing and Remediation**

Ms. Paituvi has extensive experience in environmental consulting including environmental assessment and remediation of contaminated sites, as well as industrial wastewater permitting, environmental compliance, and stormwater permit review and renewal. She has actively collaborated on site investigation and environmental assessments, remedial action planning and design. She is experienced in data validation, interpretation and reporting, and regulatory compliance. As a project manager, Ms. Paituvi is responsible for cost estimating and tracking, task scheduling and timely completion of projects. From the various and numerous project experience, she has gained practical experience in environmental field investigation, , construction planning and oversight, development planning, remediation system installation and operation, and regulatory compliance.

**Education**

B.S., Environmental Engineering Sciences,  
 University of Florida, 2005

**Professional Licenses / Certifications**

Florida Professional Engineer  
 License No. 73008

OSHA 40 Hour Hazardous Waste  
 Operations and Emergency Response

Certified FDEP Stormwater, Erosion and  
 Sedimentation Control Inspector No. 27077

**Years of Experience 14**

**Project Experience**

**Sports Complex/Sabal Golf Course Brownfield, City of Pompano Beach, Broward County, Florida** — This former golf course was assessed by others under a TCRPC Brownfields grant. Following completion of the grant-funded activities, the City of Pompano Beach engaged E Sciences to conduct the cleanup activities. Using the historic assessment information, E Sciences conducted additional assessment and assisted the City with hiring a contractor to implement the remediation. E Sciences provided consulting and oversight throughout the remedial activities along with the follow up regulatory coordination and reporting. This \$1M cleanup was completed within two months. Ms. Paituvi was the project manager and prepared the regulatory submittals that were accepted by the regulatory agency. The project is approved for conditional closure based on the completion of the remedial scope proposed by E Sciences and impact delineation.

**Atlantic Avenue and Dixie Highway Parcels Environmental Assessments, City of Pompano Beach, Broward County, Florida** — E Sciences conducted a Phase I ESA at the site and discovered RECs associated with the historical use of the site and adjacent properties. E Sciences conducted Phase II ESA activities at the site based on the Phase I ESA findings including a geophysical survey, soil and groundwater sampling and excavation of test pits. The test pits revealed the presence of buried debris at the site. Soil assessment revealed the presence of localized contamination at the site based on the limited nature of the Phase II ESA. Ms. Paituvi actively collaborated in the development of the Phase II ESA plan, coordination of field activities and data evaluation. She prepared a Phase I and II ESA presenting the findings and conclusions of the combined Phase I and II ESAs and examples of construction and design considerations to be factored in the development planning at the site.

**Community Gardens Parcels Groundwater Testing, City of Pompano Beach, Broward County, Florida** — E Sciences was engaged by the City of Pompano Beach CRA to conduct soil and groundwater sampling at three adjoining CRA properties. The purpose of the sampling was to assist the CRA on evaluating the suitability of three parcels for use as community gardens for a local school. Due to the lack of knowledge of specific contaminant sources and the lack of historical land use knowledge, a general soil sampling approach following ISM was implemented. This is a newly accepted methodology. Ms. Paituvi coordinated and oversaw the soil and groundwater sampling activities. She prepared the report presenting our findings to the CRA and offering recommendations for the construction of the community gardens based on the analytical results documented.

**Blanche Ely and Adjacent Parcels Study, City of Pompano Beach CRA, Broward County, Florida** — A Phase I ESA was conducted at this property owned by the Pompano CRA. The CRA planned to redevelop this vacant land for commercial and residential use. Ms. Paituvi conducted the Phase I ESA research, site visit and prepared the Phase I ESA report. The Phase I ESA revealed the potential presence of contamination associated with the historical use of the site and adjacent properties. Under supervision of the assigned professional engineer, she developed a Phase II ESA assessment plan. The Phase II ESA included a geophysical survey, soil screening, soil sampling and groundwater sampling activities at specific locations in order to confirm the presence or absence of contamination associated with the identified RECs at the site. Ms. Paituvi coordinated project activities, evaluated data and prepared a Phase II ESA report including findings and conditions. The Phase II ESA revealed the potential presence of a “leading edge” of an offsite contamination plume. Based on the findings, she assisted in drafting recommendations regarding construction and redevelopment activities at the site.

**Belle Two Commerce Property and Adjacent Parcel Study, City of Pompano Beach, Broward County, Florida** — E Sciences conducted a Phase I ESA at this property in order to assist the Pompano Beach CRA in the evaluation of the potential purchase of the site. Ms. Paituvi conducted a Phase I ESA including database and record review, site visit, interviews and report preparation. The Phase I ESA revealed the historic presence of a fueling station onsite and a suspicious presence of a manhole at the site. The Phase II ESA included a geophysical survey, soil screening, and soil and groundwater sampling activities. During Phase II ESA, an abandoned UST was discovered at the site. Ms. Paituvi coordinated investigation activities to characterize the UST and its contents and provide the CRA with regulatory guidance regarding this discovery. The tank was determined to contain heating oil and to be associated with a former restaurant at that location.

**Marlins Park Garages and Surface Parking, City of Miami, Miami-Dade County, Florida** — The City of Miami is seeking regulatory closure for the Marlins Stadium parking lots and garages. Arsenic contamination had been documented across these lots and required the implementation of a Soil Management Plan during construction completed in 2016. E Sciences was engaged by the City to prepare the required regulatory submittals to pursue regulatory closure. Ms. Paituvi has reviewed extensive regulatory documentation and prepared an EC report and ECMP certifying the presence of the required cover across the parking lots and garages. Ms. Paituvi is finalizing the survey reports to incorporate into the ECMP for submittal to DERM.

**Miami Beach Convention Center Brownfield, City of Miami Beach, Miami-Dade County, Florida** — In preparation of development of City-owned properties associated with the redevelopment of the Miami Beach Convention Center, E Sciences conducted a Phase I ESA for several parcels of land. These parcels included a parking lot west of the convention center and the 21st Street Community Center and Bandshell north of the convention center. The Phase I ESA revealed the historic operation of a golf course on the project sites. This finding was identified as a REC based on the potential historical application of herbicides and pesticides on the ground. A Phase II ESA revealed soil and groundwater contamination. The City elected to implement an EC and source removal efforts as part of the development plan. E Sciences is currently implementing an area wide assessment and regulatory closure strategy of the golf course that incorporates the convention center and multiple adjacent sites. Ms. Paituvi is managing the assessment activities and has prepared a Site Assessment Plan submitted to DERM in order to gain their approval prior to conducting extensive and intensive assessment activities in this busy area of the City. She also incorporated historical information, an alternative composite sampling approach and consideration for existing conditions and exposure risks into the sampling plan to provide a practical yet comprehensive scope to conduct the area-wide assessment.

**NPDES MS4 Permit Implementation and Coordination, FDOT District Four, Florida** — In accordance with FDOT District Four Phase I and Phase II MS4 NPDES permits, E Sciences conducts inspections of stormwater treatment facilities and outfalls to identify and document current conditions and functional defects. This includes the review of as-

built plans and the SFWMD Environmental Resource Permits is necessary. Ms. Paituvi conducts peer review of deliverables of inspection results for submittal to FDOT District Four.

**Former West Palm Beach City Hall Environmental Assessment, City of West Palm Beach, Palm Beach County, Florida** — The City of West Palm Beach relocated to a new location leaving the former location as a prime redevelopment spot in downtown. The City obtained grant funding from the TCRPC Brownfields Coalition Grant to conduct site assessment and asbestos surveying activities. The historic property was home to multiple potential sources of contamination, as is common with older urban areas. Historic land uses included gasoline stations, railroad tracks, cleaners, ice manufacturing and automotive repair facilities identified during a Phase I ESA. Ms. Paituvi developed and implemented a Phase II ESA sampling scope to evaluate the potential presence of soil and groundwater contamination at this site. Based on the results of the Phase II ESA, it was soil contamination was identified at the site. Using a “weight of evidence” approach, E Sciences demonstrated to the FDEP that contamination at the site was a result of being in urban setting and not site related. Ms. Paituvi prepared a Soil Management Plan (SMP) to be implemented during development activities at the site as an alternative to remediation. FDEP approved of the SMP and no further assessment or remediation was required at the site.

**Environmental Engineering Services, Islamorada, Village of Islands, Monroe County, Florida** — Ms. Paituvi conducts reviews of designs of stormwater management systems and drainage plans that are submitted to the Village for development, redevelopment or modifications to existing developments. She completed reviews of the stormwater calculations and design to evaluate if the overall stormwater management plan is substantially consistent with the Village’s stormwater management regulations and Stormwater Design Criteria Technical Manual. Formal review letters provide the results of this review.

**Environmental Engineering Continuing Services, City of Miami Beach, Miami-Dade County, Florida** — E Sciences was engaged by the City of Miami Beach to conduct a Limited Site Assessment for the Fleet Management Facility in order to evaluate the presence of contamination associated with a historical discharge from the hydraulic lift pumps at the Site. Ms. Paituvi served as the project manager for this assessment. As part of the scope, she developed an assessment plan, provided field support and prepared a Supplemental Site Assessment Report (SSAR) for regulatory submittal to the Miami-Dade RER. Assessment included soil screening, sampling and analysis and groundwater sampling and analysis. County approved the SSAR and requested that the presence of free product documented at the site be addressed. Ms. Paituvi provided guidance and recommendations to the City regarding future actions

**EC Inspections and Reporting, City of Miami, Miami-Dade County, Florida** — The City of Miami installed EC to address the presence of buried debris and contaminated soil in 11 parks. The ECs are intended to prevent exposure to contaminated media. E Sciences conducts monthly visits to document the condition of the EC in each park. The inspections are conducted in accordance with EC Plans approved by the County. The observations documented are used to determine the necessary corrective actions to ensure the integrity of the EC. Ms. Paituvi reviews inspections forms and photographic documentation for quarterly submittal to DERM.

**SW 7th Street and SW 8th Street from Brickell to SW 27th Project Development and Environment (PD&E) Study, FDOT District Six, Miami-Dade County, Florida** — Ms. Paituvi is the project manager for the PD&E Study of one of the City of Miami’s most iconic roadways known as Calle Ocho. Issues to be addressed as part of the study include roosting surveys of the federally endangered Bonneted Bat, numerous historic sites, several parks, community involvement, benthic survey and evaluation of water quality associated with this roadway improvement project.

## **P**eter Partlow, PE QA/QC

Mr. Partlow is a Principal Engineer with E Sciences. He has experience on a variety of environmental and engineering related projects. His key strengths are in the areas of project management and oversight in addition to QA/QC. His technical expertise includes wastewater collection system and treatment system design and construction; contamination assessment; remediation; potable water and wastewater treatment; water resources and water quality; and project management. Project experience includes water resources and water quality studies and designs, hydrologic enhancement for mitigation banking projects, potable water and wastewater projects such as design, operations and maintenance, development feasibility analysis, and construction administration for municipal and industrial clients.

### **Education**

MBA, University of Central Florida, 1995  
BS, Environmental Engineering,  
University of Central Florida, 1988

### **Professional Licenses / Certifications**

Registered Professional Engineer, Florida  
#47670

NASDS/PADI Basic & Open Water SCUBA

OSHA 40 Hour HAZWOPER/ 8 Hour Site  
Supervisor

**Years of Experience 31**

Mr. Partlow has extensive experience in the assessment of social, cultural, land use, economic and environmental issues as related to roadway projects, construction and development. Mr. Partlow has managed the research, analysis and documentation necessary for projects of all types, including providing support for environmental assessments or environmental impact statements as appropriate to satisfy the requirements of the NEPA and/or other related Federal and State environmental laws and regulations.

In addition, Mr. Partlow has managed and participated on several construction management projects. These projects include modifications and additions to several 1.0 to 2.0 MGD wastewater treatment plants, management of remedial systems installations for the remediation of contaminated soil and ground water, and construction of an airscrubber system.

### **Project Experience**

**Greynolds Park Renovations and Preliminary Evaluation Report, North Miami Beach, Miami-Dade County, Florida** — This park is currently owned by Miami-Dade County and is used as a recreational park housing a variety of amenities, including a man-made lagoon and bird rookery. The intended hydrologic function of the park was based on historic tidal influences on the man-made lagoon and rookery. Anthropogenic and weather events have resulted in reduced water quality and aesthetics as well as degraded foraging and breeding habitat for birds which discouraged recreational use of the park. Stagnant water and flooding are also hydrological impairments at the park. This project was developed to identify issues that must be addressed to return the ecosystem to a more naturally productive state and improve the beneficial use of the park by enhancing and restoring the diminished hydrologic and biological function of the rookery. Mr. Partlow provided principal engineering design support for dredging and grading to restore the hydrologic conditions in the park.

**River Oaks Preserve, City of Fort Lauderdale, Broward County, Florida** — Mr. Partlow provided QA/QC for this project. E Sciences teamed with Consul-Tech for this project to assist with the master plan design to include wetland delineation, tree survey, preliminary wetland design and permitting support for the River Oaks project. This community is one of the oldest in the City of Fort Lauderdale and has been subject to repetitive flooding due to prior development that did not include stormwater control and the blockage of an outfall that historically drained the area.

**Vizcaya Southern Lagoon & Northern Canal Tidal Swamp Landscape Environmental Restoration, Miami-Dade County, Florida** — Mr. Partlow provided senior and principal engineering services for the Vizcaya Gardens and Museum, built in 1915 by Industrialist James Deering. This site was acquired in 1952 by Miami-Dade County and is a U.S. Historic National Landmark site. Devastation from Hurricanes Wilma and Katrina in 2005 wreaked havoc on the gardens and grounds, designed for Deering by the Columbian Landscape Architect Diego Suarez, resulting in debris and sedimentation blockages in the canal and tidal pond system that connects to Biscayne Bay. Nuisance and exotic species infestations, and declining water quality from a loss of tidal flushing resulted in a loss of fish and wading bird usage of the gardens and waterways. Rare coastal hammock hardwood forest habitat was also destroyed. E Sciences developed design plans to dredge the south canal at Vizcaya. A collapsed retaining wall at the mouth of the south canal, in addition to encroachment of mangroves and other emergent wetland vegetation, through the deposition of organic material and the capturing of sediments by their roots, resulted in interruptions to the intended tidal fluctuations within the canal. E Sciences applied for a Class I Permit from Miami-Dade County Regulatory and Economic Resources Department, a permit exemption from the Florida Department of Environmental Protection and a Letter of Permission from the U.S. Army Corp of Engineers to conduct maintenance dredging activities involving the removal of approximately 1,410 cubic yards of silt and sediments from the bottom of the canal. The objective of this project was to enhance and restore lost hydrologic and biological functions to the canal.

**City of Orlando Environmental Assessment, Testing and Remediation, Orange County, Florida** — E Sciences provided environmental assessment, testing and remediation consulting services on a continuing contract basis. E Sciences provided environmental assessment, testing and remediation consulting services on a continuing contract basis. The scope of services for this contract included Phase I Environmental Assessments, litigation support services, asbestos surveys and abatement, mold sampling and noise studies. Mr. Partlow provided QA/QC and principal review on this contract.

**Volusia County Environmental and Hydrogeological Continuing Services, Volusia County, Florida** — E Sciences is provided professional hydrogeological and environmental services that include Phase I and Phase II ESAs, asbestos surveys, contamination assessment and clean-up of sites, contamination assessment and clean-up of non-petroleum and petroleum contaminated sites, under-ground and above-ground Storage Tank Closures, Remedial Action Plan development and implementation, remedial system operation and maintenance, Stormwater Pollution Prevention Plan (SWPPP) and SPCC, and other related work as required. Mr. Partlow provided QA/QC and principal review for this contract.

**Highlands Avenue Parking Lot Stormwater Improvement, City of Melbourne, Brevard County, Florida** — Mr. Partlow provided senior engineering oversight for the redesign of the Highlands Avenue Parking Lot. E Sciences studied the site and developed a design that used PaveDrain™ blocks as a pervious parking lot surface over a gravel infiltration basin. The infiltration basin was designed with extra capacity to allow for the intake of stormwater runoff from adjacent buildings and roadways. A \$103,000 TMDL Grant was awarded to the City of Melbourne for this project by FDEP. Additional savings in design costs were also achieved by the use of the “10-2” self-certification permit under the new State-Wide Environmental Resource Permit criteria.

**Stormwater Quality Master Plan, City of Melbourne, Brevard County, Florida** — Mr. Partlow provided senior engineering services for the stormwater quality master plan that included an environmental regulatory assessment, pollutant load modeling and analysis, stormwater infrastructure mapping, development of over 50 innovative water quality Best Management Practices (BMPs) projects and project prioritization recommendations in an effort to reduce pollutant loading to the Indian River Lagoon. Water quality projects took advantage of funding opportunities including project cost sharing and State grant programs.

## **G**ayle Stone, MS Senior Scientist / Task Lead Ecological Services

Ms. Stone is an environmental consultant and ecologist. Her main areas of expertise include preparation of NEPA documents, wetland delineations, wetland functional assessments, protected species surveys and environmental permitting. She has participated in numerous PD&E Studies for the FDOT and performed Environmental Assessments and Categorical Exclusions for municipalities, city housing authorities, community redevelopment agencies and county transportation agencies. Her additional project experience includes benthic/seagrass surveys, bird surveys, tree surveys, wetland and wildlife monitoring and construction permit compliance inspections.

### Education

MS, Marine Biology, Nova Southeastern University, Fort Lauderdale, Florida, 1997  
BA, Biology and Music Double Major, Skidmore College, Saratoga Springs, New York, 1987

### Professional Licenses / Certifications

PADI Scuba Certified No. 9111278063

Years of Experience 26

### Project Experience

**Community and Family Health Center, City of Pompano Beach, Broward County, Florida** — Ms. Stone completed the Environmental Information and Documentation Checklist in support of obtaining a federal grant from the U.S. Department of Health and Human Services, Health Resources and Services Administration for construction of a new health care center in this transit-oriented Community Redevelopment Area.

**Martin Luther King, Jr. Boulevard Environmental Review, Broward County, Florida** — Ms. Stone completed the Type I and Programmatic Categorical Exclusion (CE) Checklist and CE Memo for this streetscape improvement project between NW 31st Avenue and Powerline Road. This project is one segment of a planned, multi-city education corridor partially funded through the FDOT LAP. The environmental review included coordination with the State Historic Preservation Office regarding a potentially historic site and an inventory of community and cultural resources. Ms. Stone also assisted with the preparation of letter mailings to residents and businesses along the project corridor for public involvement.

**Marine Patrol Dock Repair Environmental Permitting, City of Miami Beach, Miami-Dade County, Florida** — The City of Miami Beach contracted with E Sciences to provide environmental permitting support services for repair of the docks used by the City's Marine Patrol. The project involved spall and crack repair of the pile caps and repair or in-kind replacement of the concrete decking. The docks are located in Maurice Gibb Memorial Park and include an additional dock and boat ramp available to the public. Ms. Stone acquired a Nationwide Permit from the USACE, a permit exemption letter from the FDEP and a Class I Coastal Construction Permit from Miami-Dade County RER. She also assisted the City with pre-construction notices to the regulatory agencies.

**Tarpon River Restoration, City of Fort Lauderdale, Broward County, Florida** — E Sciences has been engaged by the City of Fort Lauderdale to develop a restoration plan for sediment/debris removal (dredging) following wastewater discharges into the Tarpon River. Ms. Stone coordinated with the environmental regulatory agencies and advised on the requirements for environmental permitting, including justification for maintenance dredging, overseeing design and methods for a benthic/seagrass survey using video, and development of a dredging plan, including measures for turbidity control and protected species. A Letter of Permission from the USACE, a Maintenance Dredging Exemption from FDEP and an Environmental Resource License from Broward County Environmental Protection and Growth Management Department will be acquired for the restoration.

**Carl Fisher Seawall State Permitting Support, City of Miami Beach, Miami-Dade County, Florida** — The Carl Fisher Clubhouse was constructed in 1916 and is the oldest public standing structure in Miami Beach. It is on the National Register of Historic Places and is a locally designated historic structure. As part of the restoration of the Clubhouse, the City also needed to repair the seawall on Collins Canal to protect this historic resource. The seawall

was severely deteriorated, and mangroves had recruited to the area. Ms. Stone performed a field assessment and a Wetland Assessment Technique for Environmental Review of the impacted mangrove area with the SFWMD. In addition, a Cumulative Impact Assessment of the mangroves in the SFWMD Biscayne Bay drainage basin was conducted because mitigation for mangrove impacts was proposed outside the basin in which the impacts were proposed to occur. She acquired an Environmental Resource Permit from SFWMD, which required coordination with the State Division of Historical Resources and reservation of saltwater mitigation credits from Everglades Mitigation Bank.

**Mooring Field Feasibility Study, City of Miami Beach, Miami-Dade County, Florida** — The City of Miami Beach has become a popular destination for boaters and Sunset Harbour, located between Maurice Gibb Memorial Park and Belle Isle, has experienced increased unregulated anchorage in recent years. The City wishes to establish a mooring field in the area to regulate anchoring and thereby improve water quality. Biscayne Bay is an Aquatic Preserve, an Outstanding Florida Water and designated Critical Habitat for Johnson's seagrass, a federally threatened species. As part of the preliminary evaluation, Ms. Stone performed a reconnaissance benthic survey of the area and documented the regulatory permits required along with design and operational criteria of a managed mooring field.

**Baywalk Permitting and Environmental Engineering Services, City of Miami Beach, Miami-Dade County, Florida** — Ms. Stone is responsible for preparing and processing the environmental permit applications and coordinating with the engineering subconsultants and the City. The proposed project is a pedestrian walkway over water on Biscayne Bay from the 10th Street City right-of-way to 12th Street. Initially, Ms. Stone led the team of marine biologists in performing a detailed seagrass survey. She prepared the Environmental Summary Report, which included maps of the seagrass beds observed, impacts to each seagrass bed from installation of pilings and impacts to each seagrass bed from the grated, elevated walkway. The Report also included a functional assessment using the Uniform Mitigation Assessment Method, a protected species and habitat evaluation, and an avoidance and minimization discussion. She compiled the supporting documentation for the permit application packages, including ownership and consent documents from the three adjoining properties, and prepared the Federal, State and Miami-Dade County permit applications.

**Bay Crossing Permitting for Beach Corridor Rapid Transit Project, Miami-Dade County, Florida** — This project involves a new, elevated, rapid-transit connection from Miami to Miami Beach on the south side of MacArthur Causeway, called the Beach Corridor Bay Crossing. E Sciences was tasked with acquiring environmental permits for construction of the Bay Crossing to advance this segment of the Beach Corridor. The Bay Crossing includes two bridges over federal channels and the U.S. Coast Guard (USCG) was identified as the lead federal agency for the permits due to the bridge crossings. Ms. Stone prepared an Environmental Assessment to fulfill USCG NEPA requirements and submitted two Bridge Permit Application packages to the USCG. In addition, Ms. Stone was a lead reviewer for the Environmental Permit Report that detailed impacts to seagrass, corals, threatened and endangered species and essential fish habitat. Extensive coordination with permitting and commenting agencies was conducted, including USACE, National Marine Fisheries Service, RER and SFWMD to determine mitigation for seagrass and coral impacts.

## **P**atrick Shearer, PE Senior Engineer / Task Lead Engineering Services

Mr. Shearer is a project manager and senior engineer with experience in civil, environmental and water resources engineering. He has experience successfully completing environmental studies and analyses including watershed-based studies, wetland mitigation plans, hydrologic and hydraulic modeling, stormwater management plans, shoreline stabilization and living shoreline plans, stream assessments, stream restoration plans, watershed management plans, and water resource related technical reports. He is experienced in ecological restoration including wetland restoration, stream restoration, and living shoreline projects in both freshwater and estuarine ecosystems, including the restoration and creation of tidal channels. Mr. Shearer has provided project management, engineering evaluation and design, survey coordination, modeling, permitting and construction administration for the above types of environmental resource projects. He has experience in wetland delineation, State and Federal stream and wetland permitting, SWPPPs, construction management, Construction Engineering and Inspection (CEI) services, environmental compliance support, NPDES, Environmental Resource Permit, and compliance inspections. Mr. Shearer is also experienced with project feasibility studies, preliminary and detailed engineering design, grant procurement, bidding assistance, and design peer reviews. He has designed living shoreline projects which accommodate for SLR.

### **Education**

BS, Civil Engineering – Environmental Option; Natural Resources and Environmental Science, Kansas State University, 2007

Integrated Stream and Stormwater Wetland Design in Urban Settings Class, Duke University, 2013

### **Professional Licenses / Certifications**

Professional Engineer, Florida #79596

Received: 2015

FDEP qualified Stormwater Management Inspector #34890

### **Years of Experience 12**

Mr. Shearer has based his career in preparing studies, project analysis and designs for private, municipal, state, and federal clients that have centered around ecosystem restoration in the context of environmental mitigation and estuary water quality improvement for sensitive watersheds draining to the Chesapeake Bay, Indian River Lagoon, Loxahatchee River, Florida Bay, and Biscayne Bay, among other important waterways. In addition, he has been involved with the FDOT District Four Indian River Lagoon Basin Management Action Plans (BMAP) compliance coordination, reporting and water quality improvement project assessment and documentation research. Mr. Shearer has provided technical support during the development of the Loxahatchee River Reasonable Assurance Plan evaluating data and coordinating involvement for FDOT District Four. Mr. Shearer's technical capabilities include AutoCAD Civil 3D, ESRI ArcGIS, Rivermorph Software, HEC-RAS, EPA SWMM 5.0, ICPR4, Total Station Instruments, GPS units, and various other hydrology and land planning applications.

### **Project Experience**

**Seawall Rehabilitation Project, City of Miami Beach, Miami-Dade County, Florida** — E Sciences is providing environmental support for the design and permitting of seven seawalls within the City of Miami Beach. E Sciences has conducted tree and benthic surveys and is supporting the coastal engineer on the permitting. Mr. Shearer is the project manager for this project.

**Jose Marti Park, City of Miami, Miami Dade County, Florida** — The project site is to be redeveloped to be an innovative waterfront park and offer many opportunities for waterfront connection for citizens, ecological enhancement, and for innovative stormwater management such as green infrastructure practices. E Sciences has been engaged to services related to the natural systems restoration and innovative stormwater design for the park's Adaptive Master Plan through Year 2021. Services include ecological surveys, stormwater design and modeling. Mr. Shearer is the project manager for this project.

**Districtwide NPDES Support Services, FDOT District Four, Florida** — Mr. Shearer was responsible for coordinating, scheduling, implementing, and tracking NPDES inspections for stormwater treatment facilities and outfalls related to the FDOT District Four MS4 permits. He performed NPDES compliance inspections for SWF's which provide water quality treatment for the District. He inspects and documents observations at SWF's regarding necessary maintenance to maintain the water quality functions of the stormwater assets. Mr. Shearer was responsible for coordination and assistance in managing the MS4 stormwater system database and inspection and reporting procedures. He was responsible for TMDL and BMAP compliance coordination, calculations and documentation for the Indian River Lagoon BMAP and Loxahatchee River Remedial Action Plan (RAP), and reviewing, researching and coordinating to provide pollutant load reduction calculations to document District compliance. He was responsible for performing annual Illicit Discharge Detection and Elimination (IDDE) training for the Operations centers in Broward, Palm Beach, and Treasure Coast counties and training staff internally on these matters. He provided engineering technical support regarding drainage plans, structures, and stormwater facility hydrologic recovery assessments. He has directed and managed staff scientists and engineers on special drainage requests, illicit discharge inspections, and Maintenance of Traffic coordination with the Operations centers. Mr. Shearer assists on various tasks and investigations regarding illicit discharges and water quality issues within the District including recurrent flooding and work adjacent to environmentally sensitive areas such as wetlands and mangroves.

**NPDES GIS Database Support, FDOT District Four, Florida** — Mr. Shearer performs QA/QC for georeferencing and digitizing services to assist with populating FDOT District Four's stormwater asset drainage database. Tasks include QA/QC of georeferenced as-built plans, analysis of the flow of the system, digitized drainage assets, and attribute information to be included in District Four's GIS Database, as requested for compliance with FDOT's NPDES permit and per requests from the Drainage and Maintenance Departments.

**Parkview Island Kayak Launch and Park Improvements, City of Miami Beach, Miami-Dade County, Florida** — The City of Miami Beach is implementing a program of kayak launch installations throughout the city to provide residents access to waterways. The Parkview Island Kayak Launch project included a paved access walkway that leads to a gangway providing access to a floating dock with kayak launch. Following acquisition of permits, E Sciences provided post design services, including turbidity monitoring and construction inspections. Mr. Shearer provided turbidity monitoring for this project.

**Miami Wynwood NW 3rd Avenue Woonerf, City of Miami, Miami-Dade County, Florida** — This project involves the conversion of four blocks of urban hardscape in the heart of the Wynwood art district from NW 25th street to NW 29th street into a "woonerf" which is a Dutch-inspired, pedestrian friendly "living" complete street incorporating green design elements, ecological benefits, and pedestrian safety. Mr. Shearer is the project manager and project engineer providing stormwater engineering design and environmental specialist services including innovative stormwater retrofits involving Low Impact Development (LID) design for this unique, green streetscape project. He managed the environmental site analysis and vulnerabilities and resiliency assessment which included heat island effect considerations, energy resource considerations, stormwater and green infrastructure assessment, community outreach and site design related to the stormwater and environmental aspects of the project. The project is a pilot project designed to showcase and scale-up resiliency and adaptation design measures, and a variety of climate-change oriented sensors, metrics and grant funding approaches have been included in E Sciences project evaluation to assist with project funding and resiliency. This project will feature stormwater design conveying green infrastructure such as permeable pavement with underground storage and bio-retention planting areas; tree planter retention areas with structural soils; bio-sorption activated media; cisterns; above-ground rain tanks; solar power; stormwater engineering art; and climate change concepts through public education and outreach. Mr. Shearer is leading the green infrastructure design and integrating the LID principles to show off stormwater management as functional environmental art which ties the site to the Everglades and Biscayne Bay natural areas of Miami. The final design will be presented to the Wynwood Business Improvement District and public.

**Finish Mill Alternative Storage Facility Environmental Considerations Evaluation (FMAEF), Titan Florida, Pennsuco Complex, Town of Medley, Miami-Dade County, Florida** — Mr. Shearer was responsible for the evaluation of four site layouts and three roadway layouts for environmental considerations including ERP requirements and feasibility and sizing of stormwater practices to meet treatment requirements for the alternative layouts for the project site. Structural control stormwater BMPs such as wet detention, dry retention, and exfiltration practices were evaluated for the site. Environmental permitting needs were identified and summarized within the letter report, including ERP, Miami-Dade stormwater and cut and fill permits, and a tree clearing evaluation and permit requirements.

**Six Affordable Units Stormwater Management Plan Review, Islamorada, Village of Islands, Monroe County, Florida** — Mr. Shearer conducts reviews of designs of stormwater management systems for proposed development projects for compliance with local codes and state regulations. He has also performed reviews of FEMA Letter of Map Revision applications for the Village to determine compliance with local codes, state regulations, and FEMA requirements.

**Little Palm Villas Stormwater Management Plan Review, Islamorada, Village of Islands, Monroe County, Florida** — Mr. Shearer conducts reviews of designs of stormwater management systems for proposed development projects for compliance with local codes and state regulations. He has also performed reviews of FEMA Letter of Map Revision applications for the Village to determine compliance with local codes, state regulations, and FEMA requirements.

**Sunset Ventures Stormwater Management Plan Review, Islamorada, Village of Islands, Monroe County, Florida** — Mr. Shearer conducts reviews of designs of stormwater management systems for proposed development projects for compliance with local codes and state regulations. He has also performed reviews of FEMA Letter of Map Revision applications for the Village to determine compliance with local codes, state regulations, and FEMA requirements. with local codes and state regulations. He has also performed reviews of FEMA Letter of Map Revision applications for the Village to determine compliance with local codes, state regulations, and FEMA requirements.

**Southwest 137th Avenue Permitting Support, Miami-Dade County, Florida** — Mr. Shearer was responsible for environmental resource permitting support for a design-build project involving constructing a roadway that connects the existing intersection of SW 137th Avenue and SW 200th Street to the existing intersection of US-1/SR-5 and SW 137th Avenue. He managed a team to perform field assessment of natural resources, a tree inventory update, and assessment of impacts to wetlands and Waters of the United States to prepare a natural resource report for use as a permitting support document. Mr. Shearer managed the preparation and submittal of permit applications to the client for permits from the SFWMD, Miami-Dade County RER, and the USACE. Wetland impacts were avoided by this project and no mitigation was found to be required.

**Melbourne Central Indian River Lagoon Water Quality Improvement Study Master Plan Update, City of Melbourne, Brevard County, Florida** — Mr. Shearer was responsible for a study focused on identifying and evaluating water quality stormwater retrofit projects and developing concept designs to address the Central Indian River Lagoon (CIRL) BMAP, TMDL compliance, and to develop a comprehensive watershed management plan for the CIRL basin within the City. He managed the project team to create and evaluate 20+ potential watershed retrofit projects to improve water quality and assess pollutant loading to receiving waters. Mr. Shearer and the team developed conceptual stormwater retrofit plans for each project location, using Low Impact Development stormwater management and other environmental sensitive stormwater practices. Additionally, he and the project team evaluated the function and effectiveness of existing stormwater structural and non-structural controls to make recommendations for improvements to water quality. Pollutant load reduction modeling and calculations were performed for each proposed project location, and planning level cost estimates were developed. The projects were ranked and prioritized based on several factors, including their cost effectiveness in pollutant load reduction, feasibility, and maintenance considerations. Stormwater projects included wet and dry pond retrofits, nutrient separating baffle boxes, vegetated filter strips, ditch and canal retrofits, off-line wet retention, algal turf scrubbers, bio-swales, biosorption activated media,

regenerative stormwater conveyance channels, constructed stormwater wetlands, living shorelines and oyster restoration. The deliverable report summarizes the evaluation of these stormwater retrofits, prioritizes projects with respect to cost-effectiveness, and will assist the City in making future stormwater retrofits to address the CIRL BMAP.

**Autumn Woods Stormwater Quality Retrofit and CEI Services, City of Melbourne, Brevard County, Florida** — Mr. Shearer was the Engineer of Record responsible for construction oversight services for stormwater retrofit and drainage improvements to improve water quality and flood reduction including the construction of the Autumn Woods wet detention pond. The pond was sited in a location that intersected an untreated stormwater conveyance system to the Eau Gallie River and restored treatment to areas which, prior to the project, were served by a dysfunctional treatment system. E Sciences developed construction plans and specifications, an engineer's cost estimate, obtained regulatory approvals, and secured all necessary permits from the St. Johns Water Management District (SJRWMD) and USACE for work within and impacts to Waters of the United States. The project site, which lies within the North Indian River Lagoon portion of the City's MS4, improved water quality treatment by reducing the stormwater pollutants for the drainage basin by 315 lb/yr of TN and 135 lb/yr of TP. Mr. Shearer was responsible for CEI services for this project that involved site observation inspections during various stages of construction, inspection documentation, addressing requests for information, review and approval of shop drawings, evaluation of deviations from approved plans, review and approval of pay applications, construction completion certification, permit correspondence and development and submittal of Record Drawings. E Sciences provided grant support services to the City for this project which included assistance with, preparation of, submittal, and award for a FY2015 Section 319 Grant for the project for \$518,750 (~60% of total construction cost) to support TMDL compliance. Construction of this project was completed in July 2017.

**Croton Road Stormwater Improvements and CEI Services, City of Melbourne, Brevard County, Florida** — Mr. Shearer was the engineer-of-record responsible for construction oversight services for stormwater retrofit improvements including the construction of four dry retention basins (dry swales) in series within the median of Croton Road, and a 2nd generation nutrient removal Baffle Box to improve water quality to support the City's TMDL compliance. An underdrain system was installed under the dry swales to address high water table conditions in this area. E Sciences developed construction plans and specifications, including an engineer's cost estimate and other information necessary for bid documents for the proposed improvements. The treatment train design helps reduce localized flooding and maintenance issues for this area and provides 133 lbs/yr of TN removal and 32 lbs/yr of TP removal which the City will use towards credit in their Indian River Lagoon BMAP. Mr. Shearer was responsible for CEI services for this project which involved performing and coordinating site inspections during all stages of construction, inspection documentation, addressing requests for information, review and approval of shop drawings, evaluation of deviations from approved plans, claims review, review and approval of pay applications, construction completion certification, permit correspondence and development and submittal of Record Drawings. The City was awarded \$191,100 in grant funding for this water quality improvement project. Construction of this project was completed in January 2017.

## Subconsultant Resumes

### AirQuest



Traci-Anne Boyle, MBA, CIH, CSP

President/CEO

	<b>PROFESSIONAL DISCIPLINES:</b> <ul style="list-style-type: none"> <li>• Indoor Air Quality</li> <li>• Asbestos</li> <li>• Defective Corrosive Drywall</li> <li>• Corporate Social Responsibility/Sustainability</li> <li>• Industrial Hygiene</li> <li>• Contamination Assessments and Remedial Action</li> <li>• Litigation Support/Expert Witness</li> <li>• Maritime Industrial Hygiene / EH&amp;S</li> <li>• Mold Assessment and Remediation</li> </ul>	<b>EXPERIENCE:</b> 28 years
		<b>EDUCATION:</b> <ul style="list-style-type: none"> <li><b>Master of Business Administration</b>, June 2002 University of Baltimore, Baltimore, Maryland</li> <li><b>Bachelor of Science Biology</b>, August 1993 Florida International University, Miami, Florida</li> </ul>

**BIO:**

Ms. Boyle has over twenty-eight (28) years of diverse environmental consulting and industrial hygiene experience spanning more than thirty states in the US as well as the Caribbean. Her niche is in successfully directing sensitive, complex, multi-disciplinary, and large-scale environmental and industrial hygiene projects. Her experience includes simultaneous senior project management of multi-million dollar environmental projects in three (3) states.

Ms. Boyle has provided environmental consulting to a variety of parties including domestic and foreign government officials, attorneys, insurance companies, lending institutions, architects, engineers, the construction industry, property asset managers, multi-national corporations, and regulatory agencies.

Ms. Boyle is the technical qualifier for AirQuest's industrial hygiene and safety consulting services and she is the Chief Executive Officer responsible for all aspects of the business.

#### REGISTRATIONS, LICENSES & CERTIFICATIONS

American Board of Industrial Hygiene, Certified Industrial Hygienist (#8561, Comprehensive Practice, July 2003)  
 Board of Certified Safety Professionals, Certified Safety Professional (#23595, November 2012)  
 Florida Asbestos Consultant (#AX-60, June 2005)  
 Florida Mold Assessor (#MRSA-135, November 2010)  
 OSHA Health and Safety Certified for Hazardous Waste Operations, 29 CFR 1910.120, 1994  
 Asbestos Building Inspector: Accreditation under TSCA Title II/AHERA, 1995  
 Asbestos Project Designer: Accreditation under TSCA Title II/AHERA, 2004  
 Asbestos Management Planner: Accreditation under TSCA Title II/AHERA, 2004  
 OSHA Certified Competent Person Class II Asbestos Abatement Supervisor, 29 C.F.R. part 1926.1101, 1998 only  
 Mold Assessment & Remediation in Buildings, 2002  
 Respiratory Protection, 2003  
 Radiation Safety & Operator Training – XRF Spectrum Analyzers, 2010  
 (The above course descriptions are for the original courses. If required, the requisite annual courses have been taken to maintain certifications unless noted.)

#### ASSOCIATIONS

American Board of Industrial Hygiene, Subcommittee on Stewardship and Sustainability  
 American Conference of Governmental Industrial Hygienists  
 American Industrial Hygiene Association  
 American Society of Testing Materials (ASTM) International, Subcommittee on Environmental Assessment (2003-2016)  
 Board of Certified Safety Professionals  
 National Association of Environmental Professionals, Member #11050 (1996-2009)  
 Indoor Air Quality Association  
 Women's Business Enterprise National Council  
 Women Impacting Public Policy, Subcommittee on Energy & the Environment (2009-2010)

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**Beta Gamma Sigma, Member #837318****SELECTED PROJECT EXPERIENCE****Industrial Hygiene**

Conducted a risk assessment of the use of chemicals with a Hazardous Material Identification System (HMIS) Health rating of 3 or 4 for a large passenger cruise company. The assessment included interviews with employees, observations of work conditions and work procedures, field screening for key indoor air quality parameters and laboratory analysis of exposures to a variety of chemicals of concern. The data collected was used to develop exposure evaluations for over 100 chemicals, which were presented in concise one (1) page attachments to MSDS sheets.

Certified industrial hygienist responsible for noise sampling of ten (10) workers at a vehicle assembly facility. The sampling was performed using Casella Noise Dosimeters. The equipment was factory calibrated and field calibrated prior to use. Ten (10) workers were monitored during the work shift within the 75,000 square foot industrial building. The results indicate that the Time Weighted Average (TWA) or average sound level (used if less than 8 hours were collected), were above the Occupational Safety and Health Administration (OSHA) Action Level of 85 db or Permissible Exposure Limit of 90 db in all but one (1) of the samples. Based upon the results of the sampling, recommendations for compliance with CFR 1910.95, OSHA's Occupational Noise Exposure regulation, were made.

Certified industrial hygienist responsible for the oversight of removal of lead contaminated soil at Patrick's Air Force Base. The project consisted of the demolition of an existing small arms firing range and excavation and disposal of lead contaminated soil. A Worker Protection and Exposure Monitoring Plan, Ambient Air Monitoring Plan and Confirmatory Sampling and Analysis Plan were developed prior to site activities. The demolition debris was sampled to determine if it was a characteristic hazardous waste. Initial and periodic personal air monitoring was conducted during remediation activities to assist in the evaluation of exposure levels and the selection of appropriate respiratory protection. Background samples were placed in the vicinity of excavation activities to evaluate the potential exposure to intermittent site visitors. Daily air monitoring was conducted for lead to evaluate if the remediation activities were within the EPA's National Ambient Air Quality Standards. Each soil pile was sampled for disposal purposes and confirmation soil samples were collected from the excavation to confirm that all lead impacted soils were removed from the site.

Certified Industrial Hygienist responsible for oversight of three (3) contracts with the Department of the Navy for industrial hygiene sampling at NAS Jacksonville, FL; FRC Solomons, MD; and JRB Fort Worth, TX. Quarterly and semi-annual sampling is conducted to evaluate exposures to heavy metals, dust, hexavalent chromium, and respirable cadmium. Wipe sampling is also performed at JRB Fort Worth to evaluate settled dust loads.

Conducted personnel monitoring to evaluate airborne contaminant concentrations and personal exposure levels to silica before and after modifications were made to a sandblasting room. The results of the laboratory sampling and analysis did not identify detectable concentrations of quartz, cristobalite or tridymite silica in the personal and area samples collected before or after modifications were made to the exhaust system in the sandblasting room.

**Asbestos Emergency Response, Surveys & Abatement Oversight**

Provided senior project management to an emergency response to an asbestos release aboard a passenger cruise ship that was in dry-dock undergoing interior renovations. The logistics for the project included operating in a foreign country (Curacao, Netherland Antilles), coordinating and/or overseeing 100 asbestos abatement workers and asbestos consultants, foreign government officials, the vessel owner, the captain and crew of the vessel, the dry-dock owner's representatives and consultants from the Netherlands and working under intense time constraints. The asbestos abatement project was successfully completed within eleven (11) working days. Air monitoring and onboard asbestos consulting continued for an additional six (6) weeks while renovations to the ship were completed.

Senior project manager for an asbestos survey of over 2 million square feet of space within four (4) buildings of the Broward County Judicial Complex in downtown Fort Lauderdale, Florida. The laboratory results were incorporated into a 10,000-entry interactive database for the County's use.

Senior project manager for AirQuest's term contracts with Broward County Public Schools and Miami-Dade County Public Schools. Asbestos consulting services are provided for compliance with the Asbestos Hazard Emergency

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**Response Act (AHERA).**

Certified Industrial Hygienist that provided on-site supervision and senior project management to determine the presence of asbestos containing materials (NESHAPs and the CAA compliance) at the Virgin Islands Army National Guard facility in St. Croix, US Virgin Islands. Contract specifications were developed for the abatement.

Veteran's Administration Certified Industrial Hygienist. Conducted asbestos and lead based paint surveys of the 7,000 square foot renovation area. Designed specifications for the asbestos abatement. Managed the asbestos abatement oversight on behalf of the VA.

**Mold Assessment & Remediation**

Conducted and/or supervised hundreds of microbial investigations throughout Florida on behalf of homeowners, homebuilders, insurance carriers, condominium associations, employers, defendants and plaintiffs.

Conducted a mold and moisture survey of an occupied building in Miami, Florida. The occupants had been complaining of symptoms consistent with indoor mold amplification for several years. Numerous previous studies had been conducted on behalf of the building owner that suggested indoor microbial growth. Recommendations had been made, however the symptoms continued and several occupants permanently vacated the building. The purpose of the survey was to document the living conditions on behalf of the residents in support of potential medical claims. The moisture survey demonstrated that over half of the building materials had excess moisture. The relative humidity was above ASHRAE recommended levels. Over thirty (30) air and bulk samples were collected for total spore counts, viable culturable fungi, and fungi identification. The results clearly demonstrated indoor amplification of *Penicillium* and *Aspergillus*. Photographs were taken illustrating mold growing on the interior of the air ducts and on the underside of vinyl floor tile. A report was prepared summarizing all of the previous investigations conducted on behalf of the building owner and the investigation conducted on behalf of the residents.

Conducted a mold survey for a residential unit in Homestead, Florida. The unit had been impacted by two (2) water incursion events several months apart. The survey was requested to determine if the mold impacts could be differentiated based upon the sources so that the remedial costs could be apportioned appropriately by the responsible parties. Photographic documentation was collected, observations were recorded, and bulk, tape lift and air samples were collected. The results of the investigation indicated that the source of the mold contamination could be differentiated based upon the observed damaged areas and the types of mold in these areas.

**Indoor Air Quality**

Conducted a Baseline Indoor Air Quality Survey and Prepared an Operations and Maintenance Plan for a municipal Fire Station. Particular attention was focused on documenting the quality of the heating, ventilation, and air conditioning (HVAC) system through readings of relative humidity, temperature, carbon dioxide and carbon monoxide. Volatile organic compounds and respirable particles were evaluated using a MiniRAE PhotoIonization Detector and a MIE PDM-3 Miniram, respectively. Data was collected using real-time digital readouts and datalogged over a 48 hour period for download and analysis. At the Client's request, representative areas were selected for bioaerosol monitoring. Samples for both viable culturable fungi and total spore counts were collected. The procedures and results of the investigation were incorporated into a comprehensive baseline survey report, outlining the findings of the sampling and recommendations for corrective action. Baseline background facility information was collected and incorporated into the O&M Plan including a chemical inventory list. Checklists were developed to assist internal personnel and/or outside consultants in monitoring potential indoor air quality concerns. The report identified specific tasks and schedules. Semi-annual monitoring is performed at this facility.

**Corrosive Drywall**

Provided senior project management to determine the presence of corrosive (Chinese) drywall in sixty (60) homes within a residential development in Broward County, Florida. The scope of the inspections included: documentation of the presence of odors, visual inspection of the air handler, electrical panel, representative switches and outlets and potentially impacted appliances, wall cavity examination using a boroscope, field screening for hydrogen sulfide using a Jerome H<sub>2</sub>S Analyzer and air and drywall laboratory sample collection for analysis. Corrosive drywall was identified within several of

the inspected residences.

#### **Air Resources Management**

Consulted with the Environmental Management Authority (EMA) Trinidadian environmental professionals on development of the Air Pollution Rules of the Environmental Management Act for the Republic of Trinidad and Tobago. Consulting services included teleconferencing, providing formal presentations to the EMA, and development of a paper for presentation at the American Chamber of Commerce of Trinidad and Tobago, 5th Annual Safety, Health & Environmental Conference and Exhibition, 2001, Trinidad, West Indies.

Completed an Annual Operating Report (AOR) for a furniture manufacturer in Miami, Florida. Facility usage data was determined, emissions per regulated emission unit and source classification code (SCC) and calculated and the report was prepared using the Florida Department of Environmental Protection's EAOR software.

Supervised atmospheric dispersion modeling of hydrogen sulfide (H<sub>2</sub>S) emissions from the exhaust gas of a scrubbing unit, located at a water treatment plant in Palm Beach County, Florida. The modeling was conducted to determine appropriate design parameters for the scrubbing unit that would insure the ambient H<sub>2</sub>S concentrations remained below a threshold of 10 parts per billion (ppb) as determined at the closest residence.

#### **Phase I Environmental Assessments and Due Diligence Investigations**

Performed and/or managed over 200 multi-disciplinary due diligence investigations (Phase I Environmental Assessments, Phase II Environmental Assessments, Transaction Screens, lead based paint surveys, radon surveys, asbestos surveys). Due diligence investigations conducted in accordance with the applicable ASTM Standard, client standard, certification requirements and/or exceeding industry standards.

Preparation of an extensive Phase I and Phase II Environmental Assessment to encompass approximately 54,000 acres of land utilized as a sugar farm. The Phase I Environmental Assessment included a current and historic aerial photograph and Sanborn Fire Insurance Map review in two counties, an aerial site reconnaissance, vehicle site reconnaissance, site and adjacent properties historical review, and several regulatory agency file reviews. A groundwater assessment was conducted for an area of the property historically used as a trash pit. Additionally, groundwater assessments were conducted in several areas of the site identified as environmental concerns during the Phase I Environmental Assessment.

Conducted a Phase I Environmental Site Assessment of an ethanol fuel transfer station and a 4-acre rail spur in Fort Lauderdale, Florida. The Phase I included a current and historic aerial photographs and Sanborn Fire Insurance Map review, a site reconnaissance visit, site and adjacent properties historical review and a regulatory agency file review. Based on the findings of the Phase I, Recognized Environmental Conditions (RECs) were identified: the current and historic use of portions of the subject property as a rail spur and associated transfer of unknown cargo. The fuel transfer activities and stained soil observed under the off-loading hose on the railroad tracks on the subject property were also an REC. Made recommendations to perform an additional assessment to delineate the extent of the impacts and interim source removal activities to abate soil contamination.

Performed a Limited Phase I Environmental Site Assessment in general conformance with a reduced scope and the limitations of ASTM Practice E 1527 of a dry cleaner in Hollywood, Florida. The assessment found no evidence of recognized environmental conditions with the exception of the historical and current use of the subject property as a dry cleaner, an onsite above ground storage tank with petroleum products and site drainage to an on-site septic system. Recommended a Phase II Investigation. The results of the Phase II identified petroleum product constituents in the groundwater at the site below regulated levels.

Conducted a Phase I Environmental Site Assessment of a former dry-cleaning facility currently operating as a convenience store in Normandy Isles, Florida. Based on the findings of the Phase I, a Phase II Environmental Site Assessment (Phase II) was recommended and conducted for the site. Soil and groundwater samples were collected in several areas of the site and analyzed for petroleum contaminants. The results of the laboratory analysis indicated that one (1) soil sample was above the FAC Chapter 62-777 Soil Cleanup Target Levels (SCTLs) Commercial/ Industrial sites.

Laboratory analytical results at the four (4) groundwater sampling points did not identify tested contaminants above regulated levels. Recommendations were made to performed an additional assessment to delineate the extent of the impacts and interim source removal activities to abate soil contamination.

#### **Contamination Assessment and Remedial Action**

Prepared a Comprehensive Site Assessment for an airplane seat manufacturer in Winston-Salem, North Carolina. A soil gas survey was utilized as a cost effective technology to investigate the potential lateral extent of chlorinated solvents in the soils and groundwater at the thirty (30) acre facility. Potential receptors and migration pathways, contaminant source areas, and the horizontal and vertical extent of soil and groundwater contamination was investigated. The Comprehensive Site Assessment was prepared in accordance with North Carolina report preparation requirements. Chlorinated solvents were documented in the bedrock aquifer to a depth of over 140 feet and in a nearby stream. Remedial alternatives and a feasibility study were developed.

Conducted assessment activities, implemented remedial action, and conducted quarterly monitoring at a site with groundwater contamination by 1,1,1-trichloroethane (TCA) in Litchfield, Connecticut. To evaluate the vertical extent of contamination, a packer system was used to sample groundwater from discrete (10 feet to 20 feet) intervals with two deep monitoring wells (82 feet and 182 feet). The use of packers eliminated the need to drill numerous deeper wells to define the extent of contamination. Active site remediation consisted of soil excavation, groundwater extraction and remediation through air stripping followed by discharge to an adjacent creek. Active site remediation was completed and semi-annual monitoring of the on-site wells was conducted.

Participated in the development of a Remedial Action Workplan Addendum (RAWA) for a manufacturing facility in Nutley, New Jersey. The initial Remedial Action Workplan was prepared by another consultant. A review of the remediation progress and site data indicated that source material was likely present at the site. A soil gas survey was conducted, source material identified and removed. The RAWA included the addition of vacuum extraction trenches and retrofitting of groundwater extraction wells to optimize contaminant removal.

Developed numerous alternate procedures for the small-scale remediation of surficial contamination identified during due diligence investigations. The plans were developed to facilitate property transactions to the satisfaction of the property owner and purchaser and were conducted in accordance with standard industry care.

#### **Multi-Disciplinary Projects**

Document review and consulting services during a property transaction for a 270-acre former nylon manufacturing facility in Greenville, South Carolina. Over ten (10) years of technical documents and the onsite groundwater and soil remedial system operation and performance were reviewed. A site inspection was conducted to supplement the document review. Groundwater analytical results were condensed and prepared for modeling purposes. Based upon the modeling results, a soil gas survey was performed upgradient of the groundwater plume. The results of the soil gas survey revealed an area with elevated levels of carbon tetrachloride that could act as an ongoing source of contamination. The findings of the soil gas survey were presented to the current owners of the site to enhance and supplement the remedial efforts.

Preparation of a Phase I, Phase II, Contamination Assessment, Risk Characterization, Remedial Action Plan, and Remedy Implementation Plan for a property in Everett, Massachusetts. The property was formerly occupied by a paint manufacturer that utilized numerous aboveground storage tanks (ASTs), Underground Storage Tanks (USTs), 55-gallon drums, and other miscellaneous containers for the manufacture of latex and oil-based paints and the manufacture of tennis surfacing material. The manufacturer disposed of latex paint rinse water effluent by discharging to two (2) on-site unlined lagoons. The Contamination Assessment delineated the horizontal and vertical extent of soil and groundwater contamination. A Method III characterization was chosen for the soil and groundwater at the site. The results of the risk characterization were used as the basis to select the appropriate remedial action and to select the appropriate Response Action Outcome for the disposal site pursuant to 310 CMR 40.1000. Subsequently a Remedial Action Plan and Remedy Implementation Plan were prepared utilizing the risk based soil and groundwater clean-up levels established in the Risk Characterization.

Preparation of an extensive Phase I and Phase II Environmental Assessment to encompass approximately 1466 acres of

land in rural Palm Beach County, Florida. The Phase I and Phase II investigations were conducted in conjunction with the South Florida Water Management District and their consultants. A fresh diesel spill was discovered during the Phase I Assessment. Subsequently, Initial Remedial Actions consisting of the excavation of excessively contaminated soil were conducted. A Contamination Assessment Report was prepared for the site revealing limited groundwater contamination. An Alternate Procedure was proposed and implemented to remediate the limited extent of groundwater contamination. Corporate environmental consulting to an international firm with over twenty (20) domestic and seven (7) international large-scale manufacturing facilities. Managed all remedial soil and groundwater operations at the facilities, provide property transaction representation during leasebacks and acquisitions, and established compliance programs under RCRA and OSHA for the firm.

#### **Litigation Support**

Provided consulting services on numerous mold contamination claims throughout South Florida on behalf of both plaintiffs and defendants. A listing of previous testimony is available upon request.

Represented the former owner of a hospital in fulfilling their environmental obligations under a purchase and sale agreement. The initial review of claims resulted in a savings of over \$800,000 in reimbursement costs. The final reimbursement request was \$312,000 against a potential liability of \$5,000,000. The claim was settled for under \$312,000 based upon diligent review and coordination with the client's legal counsel.

Evaluated the extent of soil contamination at two rental car facilities in Warren and Romulus, Michigan for litigation support. Soil contamination was documented and extensive excavations were performed at both facilities by the client's previous consultant. A database of soil analytical results was created and the distribution of contamination was modeled for each site. Based upon the results of the model, it was determined that the data supported the removal of only a fraction of the soils actually removed from the sites. An opinion was presented to the client's counsel for support of recovery of costs from the parties involved in performing the unnecessary soil removal activities.

Review of over 400 boxes of technical documents spanning eighty years in support of litigation. The technical review consisted of the development of a comprehensive database to facilitate retrieval of documents and water, soil, and air quality data. Personally responsible for the design of the relational database which consisted of twenty tables and several hundred thousand records. The database was used to facilitate the analysis of the fate, transport, and timing of the releases at this complex site.

#### **PUBLICATIONS / PRESENTATIONS**

Weaver, R., F.R. Baddour, T. Boyle and V. Rossinsky, Jr., "Removal of Chlorinated Solvents Using Soil Vapor Extraction and Groundwater Treatment Technologies", Proc. 94th Annual Conference and Exhibition Air & Waste Manage. Assoc. 2001, Orlando, FL, Paper No. 508.

Weaver, R., J. Als, F.R. Baddour, T. Boyle and V. Rossinsky, Jr., "Air Quality Management: A Tactical Approach", American Chamber of Commerce of Trinidad and Tobago, 5th Annual Safety, Health & Environmental Conference and Exhibition, 2001, Trinidad, West Indies.

## QuEST

RESUME'

**Name:** R. N. Sailappan, P.E.

**Education:** B.S. (Naval Architecture), Cochin University of Science & Technology, Cochin, India, 1986  
M.S. (Civil Engineering), Florida Atlantic University, Boca Raton, FL, 1991

**Licenses:** Professional Engineer, Registered in the State of Florida, 1993

**Associations:** Member, American Society for Testing of Materials (ASTM), 2010  
Member, American Society of Civil Engineers (ASCE), 1994  
Member (Former), Institution of Naval Architects (INA), India, 1987

**Work Experience:**

1998 - Present	Principal Quest Engineering Services & Testing, Inc. Pompano Beach, Florida.
1990 - 1998	Engineer & Manager Professional Service Industries, Inc. West Palm Beach, Ft. Lauderdale, Miami, FL
1988 - 1990	Graduate Research Assistant Dept. of Ocean Engineering, Florida Atlantic University Boca Raton, Florida
1986 - 1988	Naval Architect Mazagon Dock Ltd., Mumbai (Bombay), India

**Relevant Skills:** Geotechnical Studies and Foundation Design Recommendations  
Foundation Installation Inspections & Pile Load Tests  
Field and Laboratory Tests on Soil, Concrete, Masonry, Asphalt  
Structural (Special/Threshold) Inspections  
Environmental Site Assessments  
Project Management, Marketing, Business Development

**Relevant Projects:** Miramar East Water Treatment Plant, Miramar, FL  
Sawgrass Water Treatment Plant, Sunrise, FL  
North Broward Waste Water Treatment Plant, Pompano Beach, FL  
Utility Improvements, City of Sunrise, FL  
Miami-Dade Water & Sewer Utility Improvements, Dade County, FL  
Ft. Lauderdale/Hollywood International Airport, Ft. Lauderdale, FL

**Publications**

D. V. Reddy and R. N. Sailappan, "Acoustic Emission as a NDE Tool - Certain Laboratory and Field Investigations", December 1989.

D. V. Reddy, S. K. Lee, R. N. Sailappan, W. H. Hartt & M. Arockiasamy, "Fracture Mechanics Evaluation of the Durability of Fly Ash Concrete", December, 1991.

D. V. Reddy, S. K. Lee, R. N. Sailappan, W. Ahn, G. V. Jeedigunta, and K. P. Bethune, "Corrosion Resistance and Fracture Toughness of High Performance Concrete in the Marine Environment", May-June 1998.

Mr. Sailappan has over 30 years of engineering industry experience, with 28 of those years being in South Florida. He has worked on hundreds of projects such as roadways, utilities, public facilities, commercial projects, residential projects, stadiums and arenas, providing construction materials testing, geotechnical engineering, structural inspections, wind load evaluations as well as engineering consultations with regard to roofing, ground vibrations, light and sound analysis.

**RESUME'**

**Name:** Reza Javidan, P.E.

**Education:** B.S. (Civil Engineering), University of Detroit, MI, 1986  
M.S. (Civil Engineering), University of Detroit, MI 1988

**Licenses:** Professional Engineer, Registered in the State of Florida, 2003

**Work Experience:**

2015 - Present	Project Engineer Quest Engineering Services & Testing, Inc. Pompano Beach, Florida.
2009 - 2015	Project Engineer Florida Engineering & Testing, Inc. Pompano Beach, Florida.
2004 - 2009	Senior Geotechnical Engineer Nutting Engineering of Florida Boynton Beach, Florida
2000 - 2004	Geotechnical Engineer ATC, Inc., Miami, Florida
1993 - 2000	Geotechnical Engineer Toos-Ab Engineering, Inc., Mashad, Iran.
1989 - 1993	Project Engineer Bowser-Momer Associates, Inc., Toledo, Oh

**Relevant Skills:** Geotechnical Studies and Foundation Design Recommendations  
Foundation Installation Inspections & Pile Load Tests  
Field and Laboratory Tests on Soil, Concrete, Masonry, Asphalt  
Structural (Special) Inspections  
Project Management

**Relevant Projects:** Trump Plaza, Hallandale Beach, FL  
Office Max Headquarter Building, Boca Raton, FL  
State School QQQ, Miami, FL  
Sunset Lakes Elementary School, Miramar, FL  
BCC-Central Campus, Proposed Parking Garage, Davie, FL  
North Broward Waste Water Treatment Plant, Pompano Beach, FL  
Broward County Fire Rescue – Station 34, North Lauderdale, FL  
Ft. Lauderdale/Hollywood International Airport, Ft. Lauderdale, FL

Mr. Javidan has over 30 years of engineering industry experience of which over 17 years have been in South Florida. He has worked on hundreds of projects such as roadways, utilities, public facilities, commercial projects, residential projects, providing construction materials testing, geotechnical engineering, structural inspections, wind load evaluations as well as engineering consultations with regard to roofing and ground vibrations.

**QuEST**

Intercounty



## INTERCOUNTY ENGINEERING, INC.

1925 NW 18<sup>th</sup> Street  
Pompano Beach, FL 33069  
(954) 972-9800 \* Fax: (954) 974-0042

**Thomas V. Veit**  
**Field Superintendent**  
Phone: (954) 972-9800

### **Employment:**

Intercounty Engineering Inc., 1998– Present, Field Superintendent  
Ryan Eastern, 1994 – 1997, Foreman

### **Education:**

Roxbury High School, 1 Bryant Drive, Succasunna, New Jersey 07876

### **Accomplishments:**

Certificate, Traffic Safety, Florida Advance Work Zone Traffic Control, Training Course.  
OSHA/Current CPR and First Aid Certification  
Confined Space Refresher Course, June 2018

### **Project List:**

WWTP Influent Pump Station, Homestead, FL  
Forest Hill Blvd C-13 Canal Culvert & Approach, Wellington, FL  
SRWRF Headworks Bypass – Palm Beach, FL  
Springtree Wellhead Design for Wells S-10R, S-11R, S-12R & S-18R, Sunrise, FL  
Cooper City Lift Station No 07, Cooper City, FL  
Pump Station 11B Rehab, Opa Locka, FL  
Pump Station 127 Upgrades, Hialeah, FL  
Grit Removal in Oxygenation Trains, Hollywood, FL  
Rehabilitation of Lift Stations 11B, 11C, 12D, 12E, 13A, 13B, 13C, 13D, Coral Springs, FL  
Imperial Point Water Main, Fort Lauderdale, FL  
Fremd Village & Padgett Island Lift Station, Pahokee, FL  
Lift Station 100A Upgrade, Delray Beach, FL  
Lift Station Conversion/Upgrade (A-3, A-8, W-6 and W-26), Hollywood, FL  
Lift Station 801 Rehabilitation, Boynton Beach, FL  
Central District Flushing Water System Improvements-Phase 1, Miami-Dade Water & Sewer  
Lift Station 14, 20 and 64 Rehabilitation, Deerfield Beach, FL  
Phase II System wide Upgrades, PS A-14, A40, B-9, D-33, D-35, D-36, Ft. Lauderdale, FL  
Rehabilitation of Storm Water, PS OL-1, Village of Key Biscayne, FL  
Lift Stations 6, 27, and 61 Rehabilitation, Deerfield Beach, FL

Riverside/Victoria (5) Pump Station Installation, Ft. Lauderdale, FL  
Edgewater Pump Station (3) Pump Station Installation, Ft. Lauderdale, FL  
Fiveash Water Treatment Plant, Ft. Lauderdale, FL  
Septic Area 3, 4, and 5, Ft. Lauderdale, FL  
Group 1 and Group 2 Pump Station Rehabilitation, Ft. Lauderdale, FL  
Croissant Park, Basin C, Ft. Lauderdale, FL  
Seacoast Lift Station No. 21 Force Main Relocation, Seacoast Utility Authority, FL  
Drainage Systems Improvement, Pompano Beach, FL  
Municipal Golf Course Reclaimed Watermain, Delray Beach, FL  
Baywinds Stormwater Pump Stations, Northern Palm Beach County, FL  
Master Pump Station 364 and Force Main, Seacoast Utility Authority



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**Luis Fernando Cordova**  
(954) 325-7948

### **Education:**

University: "Ricardo Palma" University, Lima - Peru. 1978 - 1984.  
Degree: Bachelor in Civil Engineer.  
High School: "Leoncio Prado" Military School, Callao - Peru. 1975 - 1977.

### **Licenses & Training:**

State of Florida Certified General Contractor CGC 1524737  
State of Florida Roofing Contractor (inactive status)  
Training in Confined Space, First Aid/CPR

### **Experience:**

July 1999 – Present, Intercounty Engineering, Inc., Pompano Beach, FL

1. Project Manager / Project Superintendent
2. Projects located from Monroe, Dade, Broward, Palm Beach and Martin County.
3. Projects consisted of all phases of underground utilities, water and wastewater treatment plants, lift and pump stations, force main and water main installation, asphalt and concrete work; both restoration and new, landscaping and all related works.

July 1991 - June 1999, CSI Roofing, Inc., Pompano Beach, FL  
Roofing Estimator and Roofing Project Manager

1988 - July 1991, ARVIFESA General Contractor, Peru

Project Manager for the following:

- 1 Construction of 34 houses at Chinchá - Peru.
- 2 Finishing of the Peruvian Nation Bank at Chinchá - Peru.
- 3 Factory Concrete building and Concrete Tanks at "Química del Pacífico", Callao, Peru
- 4 Pedestrian Tunnels, Market and Service Building at Peruvian Navy. San Borja, Peru

1985 - December 1986

Residential and Commercial Designer and General Contractor.  
(Own company) Lima - Peru.



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### **Project List with Intercounty Engineering, Inc.:**

#### **WWTP Influent Pump Station – Homestead, FL**

Upgrades for Lift Stations No 33 and No 226, Boca Raton, FL

Sanitary Sewer Pump Station A-12 Rehabilitation, Fort Lauderdale, FL

**WWRF Injection Pump Station, Miramar, FL - \$529,024.58**

**NRWTP Chlorination Modifications, Broward County, FL - \$2,157,580.78**

Emergency Rehab for Lift Stations 197 & 213, Boca Raton, FL

Morikami Park Sewer Expansion, Boca Raton, FL

**Broward County Facilities Maintenance, Broward County, FL - \$1,700,400.00**

Pump Station 11B Rehabilitation, Opa Locka, FL

Pump Station 127 Upgrades, Hialeah, FL

Rehab of Lift Stations 9, 28, 29 and 53, Deerfield Beach, FL

Rehab of Lift Stations 11B, 11C, 12D, 12E, 13A, 13B, 13C, 13D, Coral Springs, FL

Fremd Village & Padgett Island Homes Lift Station Replacement, Pahokee, FL

Lift Station Conversion/Upgrade (A-3, A-8, W-6 and W-26), Hollywood, FL

**Pompano Beach Lift Station No 21 – Pompano Beach, FL - \$3,749,000.00**

Lift Station 801 Rehabilitation, Boynton Beach, FL

**Central District Flushing Water System Improvements-Phase 1, MDWAS - \$1,010,210.00**

Reclaimed Water Main- Area 11B, Delray Beach, FL

Lift Station 14, 20 and 64 Rehabilitation, Deerfield Beach, FL

Phase II System wide Upgrades, PS A-14, A40, B-9, D-33, D-35, D-36, Ft. Lauderdale, FL

Rehabilitation of Storm Water, PS OL-1, Village of Key Biscayne, FL

Lift Stations 6, 27, and 61 Rehabilitation, Deerfield Beach, FL

Sanitary Sewer Lift Stations B-3 and 8 Rehabilitation, Oakland Park, FL

Area 11 A Reclaimed Water System-Contract 2, Delray Beach, FL

Lift Station Improvement, Dania Beach, FL

Riverside/Victoria/Edgewater (8) Pump Station Installation, Ft. Lauderdale, FL

**Fiveash Water Treatment Plant, Ft. Lauderdale, FL - \$1,100,812.97**

Sewer Area 4, Basins B & C, Ft. Lauderdale, FL

Shady Banks WM Replacement, Ft. Lauderdale, FL

Septic Area 3, 4, and 5, Ft. Lauderdale, FL

Group 1 and Group 2 Pump Station Rehabilitation, Ft. Lauderdale, FL

Croissant Park, Basin C, Ft. Lauderdale, FL

Country Oaks Lane Improvements, Palm Beach County, FL

North Miami Beach Alley, Reconstruction of Alley, Phase 6-9, North Miami Beach, FL

Transite Water Main Replacement, West Palm Beach, FL

Lift Station 24 Improvements, Pompano Beach, FL

6<sup>th</sup> Street West of Dixie Highway Sanitary Sewer, West Palm Beach, FL

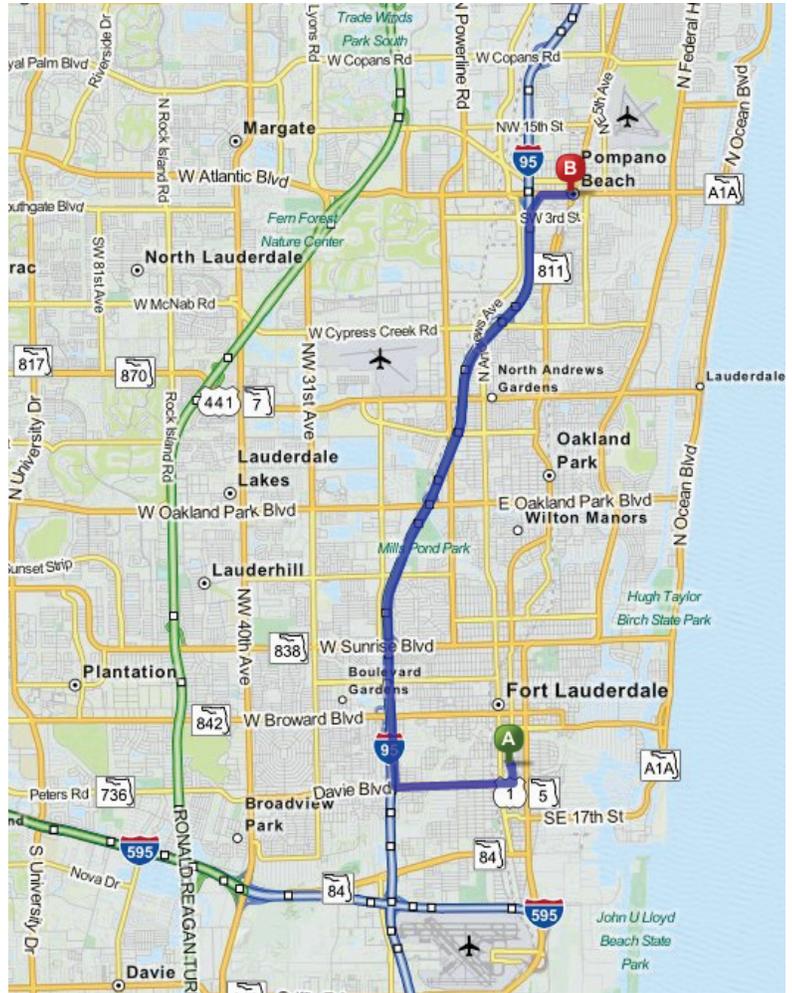
Tropic Vista Water Distribution System, Village of Tequesta, FL

Pump Station 2003 PS 21 & 45, Lauderhill, FL  
Sewer Main Repair, NW 21<sup>st</sup> Avenue & Oakland Park Blvd., Oakland Park, FL  
Seacoast Lift Station No. 21 Force Main Relocation, Seacoast Utility Authority, FL  
Municipal Golf Course Reclaimed Watermain, Delray Beach, FL  
Basins S-4 and S-5 Pumping Station, South Broward Drainage District  
Switchgear Bldg. No. 2 Structural Renovations, Hollywood, FL  
Broward County Lift Station Rehabilitation, Broward County, FL  
Lift Station 24 E1.1 Rehabilitation, Broward County, FL  
Davie Landfill Leachate Manholes Electrical Rack & Pump Replacement, Broward County, FL  
Hollywood Lift Station Conversions, Hollywood, FL  
Pahokee Lift Stations, Pahokee, FL  
Rehabilitation of Lift Stations, Coral Springs, FL  
Rehabilitation of Lift Station 2012, Deerfield Beach, FL  
Rehabilitation of Lift Station 35, Delray Beach, FL

## Office Locations

Services provided on this contract will be managed and primarily rendered by staff working in our Fort Lauderdale office. As shown on the map below, this office is located just 11 miles in driving distance from the City of Pompano Beach. Our close proximity will provide the City with the benefit of having our staff close by to respond to your requests for meetings, site visits, etc. This will facilitate a close working relationship and regular communication with the City.

**Prime Consultant  
Managing Office Location**  
 Nadia G. Locke, PE, LEAP AP  
 Contract Manager  
 E Sciences, Incorporated  
 224 SE 9<sup>th</sup> Street  
 Fort Lauderdale, Florida 33316  
 Tel. (954) 484-8500 Fax. (954) 484-5146  
 Cell. (954) 937-9678  
 Email. [nlocke@esciencesinc.com](mailto:nlocke@esciencesinc.com)



We have assembled a team of professionals who have the expertise to assist the City of Pompano Beach in reaching its goals. The following table provides the number of professional and administrative staff at this prime office location.

Discipline	Number of Staff
Administrative	1
Environmental Engineer	3
Environmental Scientist	11
GIS Specialist	2
Geologist	1

### Subconsultant / Subcontractor Locations

The E Sciences' team includes the following subconsultants providing support services that may be utilized to assist on this contract. Their prime office locations are listed below.



**AirQuest Environmental, Inc.**

6851 Southwest 45th Street, Fort Lauderdale, Florida 33314  
Tel. (954) 792-4549 Fax. (954) 792-2221



**Intercounty Engineering, Inc.**

1925 NW 18th Street 3307, Pompano Beach, Florida 33069  
Tel. (954) 972-9800 Fax: (954) 974-0042



**QuEST Engineering**

2737 NW. 19th Street, Pompano Beach, Florida 33069  
Tel. (954) 582 9800

The following lists office locations of the subcontractors that will be providing support services, but not professional services:



**JAEE Environmental Service, Inc.**

3101 Peachtree Circle, Davie, Florida 33328  
Tel. (954) 476-8333 Fax. (954) 476-8347



**Pace Analytical Labs**

3610 Park Central Boulevard North, Pompano Beach, Florida 33064  
Tel. (954) 582-4300 Fax. (954) 582-4344

All of our subconsultants and subcontractors will provide services from offices located within the tri-county area (Broward, Palm Beach, and Miami-Dade counties).

## Local Businesses

E Sciences selected subconsultants and subcontractors based upon their proximity to the City, and our working knowledge of their skills, quality and service. We have included three local subcontractors:

- Pace Analytical Laboratories, Inc.
- QuEST Engineering and Testing Services
- Intercounty Engineering

The completed applicable Local Business program forms, Exhibits A-D are found on the following pages.

REQUESTED INFORMATION BELOW IS ON LOCAL BUSINESS PROGRAM FORM ON THE BID ATTACHMENTS TAB. BIDDERS ARE TO COMPLETE FORM IN ITS ENTIRETY AND INCLUDE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

CITY OF POMPANO BEACH, FLORIDA  
 LOCAL BUSINESS PARTICIPATION FORM

Solicitation # & Title: Continuing Contract for Professional Environmental Testing E-22-20 Prime Contractor's Name: E Sciences, Incorporated

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed/Materials to be Purchased	Contract Amount
Pace Analytical Laboratories, Inc. 3610 Park Central Blvd. North, Pompano Beach, Florida 33064	Neshmah Castaneda Tel. (954) 582-4300	Asbestos, Radon, Lead Paint, Mold, Indoor Air Quality	TBD
Quest Engineering Services & Testing, Inc. 2737 NW 19th Street, Pompano Beach, Florida 33069	R.N. Sailappan, PE Tel. (954) 582 9800	Geotechnical Surveys	TBD
Intercountry Engineering, Inc. 1925 NW 18th Street 3307, Pompano Beach, Florida 33069	Luis Fernando Condylva Tel. (954) 972-9800	Water and Wastewater Support Services	TBD

LOCAL BUSINESS EXHIBIT "B"  
LOCAL BUSINESS  
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-22-20

TO: E Sciences, Incorporated  
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

- |  |   |
|--|---|
| <input type="checkbox"/> an individual | <input checked="" type="checkbox"/> Limited Liability Company LLC |
| <input type="checkbox"/> a partnership | <input type="checkbox"/> a corporation                            |
|  | <input type="checkbox"/> a joint venture                          |

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Laboratory Services  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

at the following price: Price will be negotiated with City as these projects are requested by City.

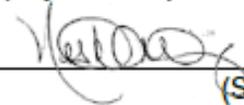
7/31/2020  
(Date)

Pace Analytical Services  
(Print Name of Local Business Contractor)

3610 Park Central Blvd. N.

(Street Address)

Pompano Beach, FL 33064  
(City, State Zip Code)

BY:   
(Signature)

**IMPORTANT NOTE:** Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"  
LOCAL BUSINESS  
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-22-20

TO: E Sciences, Incorporated  
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

an individual  a corporation  
 a partnership  a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Geotechnical Services  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

at the following price: Price will be negotiated with City as these projects are requested by City.

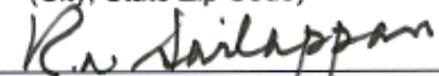
July 31, 2020  
(Date)

Quest Engineering Services  
(Print Name of Local Business Contractor)

2737 NW 19 Street

(Street Address)

Pompano Beach, FL - 33069  
(City, State Zip Code)

BY:   
(Signature)

**IMPORTANT NOTE:** Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

**LOCAL BUSINESS EXHIBIT "B"**  
**LOCAL BUSINESS**  
**LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR**

Solicitation Number E-22-20

TO: E Sciences, Incorporated  
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

an individual  a corporation  
 a partnership  a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Support for water, wastewater, sewer, force main, lift station, inspection and repairs related as needed.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

at the following price: Price will be negotiated with City as these projects are requested by City.

07/31/20  
(Date)

Intercounty Engineering, Inc.  
(Print Name of Local Business Contractor)

1925 NW 18 Street

(Street Address)

Pompano Beach, FL 33069

(City, State Zip Code)

BY:   
(Signature)

**IMPORTANT NOTE:** Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

**LOCAL BUSINESS EXHIBIT "B"**

N/A

LOCAL BUSINESS EXHIBIT "C"  
LOCAL BUSINESS UNAVAILABILITY FORM

Solicitation # \_\_\_\_\_

I, \_\_\_\_\_  
(Name and Title)

of \_\_\_\_\_, certify that on the \_\_\_\_\_ day of

\_\_\_\_\_, \_\_\_\_\_, I invited the following LOCAL BUSINESS(s) to bid work  
(Month) (Year)

items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)

Said Local Businesses:

- \_\_\_ Did not bid in response to the invitation
- \_\_\_ Submitted a bid which was not the low responsible bid
- \_\_\_ Other: \_\_\_\_\_

Name and Title: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Attach additional documents as available.

LOCAL BUSINESS EXHIBIT "C"

LOCAL BUSINESS EXHIBIT "D"  
GOOD FAITH EFFORT REPORT LOCAL BUSINESS PARTICIPATION

N/A

Solicitation # \_\_\_\_\_

1. What portions of the contract have you identified as Local Business opportunities?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Did you send written notices to Local Businesses?

Yes       No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

Yes       No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

\_\_\_\_\_  
\_\_\_\_\_

7. List the Local Businesses you will utilize and subcontract amount.

_____	\$ _____
_____	\$ _____
_____	\$ _____

8. Other comments: \_\_\_\_\_

\_\_\_\_\_

## Litigation

E Sciences has no litigation within the past five (5) years arising from E Sciences performance.

## City Forms

E Sciences has completed the Proposer Information Page Form (next page). All other required forms are submitted under the header where they were identified. We will also submit electronically through the City's eBid System.

**COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRETY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.**

**VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS**

Respondent Vendor Name: E Sciences, Incorporated

Vendor FEIN: 59-3667002

Section 287.135, Florida Statutes, prohibits agencies from contracting with companies, for goods or services over \$1,000,000, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. Further, Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to sign electronically on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs.

I Certify



## Financial Information

E Sciences Income Statement follows on the next four pages.

## CONFIDENTIAL

## Income Statement

Wednesday, July 15, 2020  
10:36:41 AM

E Sciences, Incorporated

As of period 12/27/2019

		Year-to-Date
		<b>Revenue</b>
4010.00	Billed Fee Revenue	
	Total for Billed Fee Revenue	6,891,486.95
4020.00	Unbilled Revenue	
	Total for Unbilled Revenue	(166,754.29)
	Subtotal	6,724,732.66
4210.00	Reimb Consultant Revenue	
	Total for Reimb Consultant Revenue	1,366,751.42
4220.00	Reimb Expense Revenue	
	Total for Reimb Expense Revenue	89,915.11
	Subtotal	1,456,666.53
4500.00	Subconsultant Expenses	
	Total for Subconsultant Expenses	(1,306,335.04)
	Subtotal	(1,306,335.04)
	Total Revenue	6,875,064.15
		<b>Reimbursables</b>
5150.00	Subconsultant	
	Total for Subconsultant	
5200.00	Outside Services	
	Total for Outside Services	16,795.27
5201.00	Staff Services	
	Total for Staff Services	24,668.84
5210.00	Travel, Meals & Lodging	
	Total for Travel, Meals & Lodging	33,556.45
5211.00	Vehicle & Mileage usage	
	Total for Vehicle & Mileage usage	82,182.55
5220.00	Inhouse-Reproductions	
	Total for Inhouse-Reproductions	7.80
5221.00	Reproductions	
	Total for Reproductions	3,483.40
5230.00	Permits Fees	
	Total for Permits Fees	11,801.02
5240.00	Telephone/Cell Phones	
	Total for Telephone/Cell Phones	1,437.87
5245.00	Supplies and Material	
	Total for Supplies and Material	21,854.35
5246.00	Postage and Shipping	
	Total for Postage and Shipping	603.27
	Subtotal	196,390.82
5300.00	Equipment/Software	
	Total for Equipment/Software	2,555.82
5301.00	Equipment Rental	
	Total for Equipment Rental	25,296.61
5302.00	In-house Equipment Rental	
	Total for In-house Equipment Rental	1,805.23
	Subtotal	29,657.66
6000.00	Extraordinary expenses	
	Total for Extraordinary expenses	63,677.42
	Subtotal	63,677.42
	Total Reimbursables	289,725.90
	Revenue Less Reimbursables	6,585,338.25
		<b>Directs</b>
6010.00	Direct Labor	
	Total for Direct Labor	1,944,421.67
6010.01	Direct Labor-JM	

Income Statement		As of period 12/27/2019	Wednesday, July 15, 2020 10:36:41 AM
		Year-to-Date	
Total for Direct Labor-JM		98,954.83	
6020.00	Direct Labor - Not Billable		
Total for Direct Labor - Not Billable		50,832.12	
		<b>Subtotal</b>	2,094,208.62
		Total Directs	2,094,208.62
Revenue Less Reimbursables, Directs		4,491,129.63	
		<b>Indirects</b>	
7010.00	Indirect-Admin.& Proposal Projects		
Total for Indirect-Admin.& Proposal Projects		1,054,492.98	
7030.00	Job Cost Variance		
Total for Job Cost Variance		(106,152.97)	
7060.00	Indirect - Holiday		
Total for Indirect - Holiday		93,776.76	
7070.00	Indirect - Proposal & Marketing		
Total for Indirect - Proposal & Marketing		134,306.75	
7080.00	Indirect - Training & Development		
Total for Indirect - Training & Development		91,987.71	
7090.00	Indirect - PTO/Vacation		
Total for Indirect - PTO/Vacation		255,219.40	
7092.00	Comp Time Accrued		
Total for Comp Time Accrued		12,963.28	
		<b>Subtotal</b>	1,536,593.91
7110.00	Bonus		
Total for Bonus		114,352.40	
7111.00	Auto Allowance		
Total for Auto Allowance		15,047.16	
7120.00	Pension/Profit Sharing		
Total for Pension/Profit Sharing		67,699.23	
		<b>Subtotal</b>	197,098.79
7210.00	Employer Payroll Taxes		
Total for Employer Payroll Taxes		276,776.83	
7220.00	Futa and Suta Taxes		
Total for Futa and Suta Taxes		3,480.53	
7240.00	Workers' Compensation		
Total for Workers' Compensation		20,644.00	
		<b>Subtotal</b>	300,901.36
7310.00	Health Care Insurance		
Total for Health Care Insurance		210,925.30	
7315.00	Officer Insurance		
Total for Officer Insurance		88,054.81	
7320.00	Life Insurance		
Total for Life Insurance		7,334.02	
7330.00	Disability Insurance		
Total for Disability Insurance		11,495.32	
7340.00	Dental and Other Insurance		
Total for Dental and Other Insurance		15,907.10	
7370.00	Prof Registration & Dues		
Total for Prof Registration & Dues		6,648.73	
7380.00	Employee Parking Benefits		
Total for Employee Parking Benefits		6,045.35	
7390.00	Other Employee Benefits		
Total for Other Employee Benefits		32,772.94	
		<b>Subtotal</b>	379,183.57
7430.00	Office Supplies		
Total for Office Supplies		32,648.87	
7431.00	Other Supplies		
Total for Other Supplies		4,761.44	
7440.00	Telephone/Internet		

Income Statement	As of period 12/27/2019	Wednesday, July 15, 2020 10:36:41 AM
	Year-to-Date	
Total for Telephone/Internet	29,884.26	
7441.00 Cell Phones		
Total for Cell Phones	16,687.09	
7450.00 Postage/Ship/Delivery		
Total for Postage/Ship/Delivery	8,127.60	
7455.00 Membership, Subscriptions, Periodical		
Total for Membership, Subscriptions, Periodical	21,650.39	
7456.00 Conferences		
Total for Conferences	79,971.14	
7460.00 Equipment Rental		
Total for Equipment Rental	14,460.84	
7470.00 Equip. Repairs & Maintenance		
Total for Equip. Repairs & Maintenance	8,035.77	
7471.00 Equipment and Furniture		
Total for Equipment and Furniture	3,020.61	
7472.00 Computer/Software		
Total for Computer/Software	12,453.50	
7473.00 Computer/Software Maint.		
Total for Computer/Software Maint.	89,521.54	
7480.00 Printing & Reproductions		
Total for Printing & Reproductions	2,562.34	
7491.00 Credit Card		
Total for Credit Card		
	<b>Subtotal</b>	<b>323,785.39</b>
7500.00 Rent		
Total for Rent	367,697.37	
7501.00 Utilities		
Total for Utilities	26,971.45	
7502.00 Building Repair & Maint.		
Total for Building Repair & Maint.	35,635.01	
7503.00 Property Tax (tangible)		
Total for Property Tax (tangible)	427.93	
7510.00 Legal		
Total for Legal	8,948.85	
7520.00 Accounting/Audit/Tax		
Total for Accounting/Audit/Tax	64,423.04	
7524.00 Parking		
Total for Parking	4,131.20	
7525.00 Outside Services		
Total for Outside Services	10,834.38	
7530.00 Licenses and Permits		
Total for Licenses and Permits	5,093.32	
7540.00 Interest Expense		
Total for Interest Expense	3,814.73	
7541.00 Bank Charges		
Total for Bank Charges	2,353.67	
7550.00 Prof.Liability Insurance		
Total for Prof.Liability Insurance	35,772.32	
7560.00 Other Commercial Ins,		
Total for Other Commercial Ins,	13,463.96	
7571.00 Contribution Charitable		
Total for Contribution Charitable	758.79	
	<b>Subtotal</b>	<b>580,326.02</b>
7609.00 PKP/JSB Auto Loans		
Total for PKP/JSB Auto Loans	35,474.74	
7610.00 Auto Gas & Oil		
Total for Auto Gas & Oil	33,323.40	
7611.00 Autos Others		

Income Statement	As of period 12/27/2019	Wednesday, July 15, 2020 10:36:41 AM
	Year-to-Date	
Total for Autos Others		7,655.49
7612.00 Auto Parking		
Total for Auto Parking		7,660.45
7613.00 Auto Expenses		
Total for Auto Expenses		2,742.05
7620.00 Auto Repairs		
Total for Auto Repairs		13,084.89
7630.00 Auto Registration		
Total for Auto Registration		643.80
7650.00 Auto Insurance		
Total for Auto Insurance		25,148.17
	Subtotal	125,732.99
7700.00 Travel		
Total for Travel		10,134.65
7702.00 Meals		
Total for Meals		4,803.08
7703.00 Hotel		
Total for Hotel		4,617.63
	Subtotal	19,555.36
7800.00 Bid & Proposal Cost		
Total for Bid & Proposal Cost		1,038.79
7801.00 Bid & Proposal Meals and Travel		
Total for Bid & Proposal Meals and Travel		6,026.81
7802.00 Trade Shows Technical		
Total for Trade Shows Technical		1,778.00
7803.00 Trade Shows Exp.		
Total for Trade Shows Exp.		1,314.38
7805.00 Unallowable Marketing Expenses		
Total for Unallowable Marketing Expenses		6,036.48
	Subtotal	16,194.46
7905.00 Bad Debt Write Offs		
Total for Bad Debt Write Offs		(7,293.38)
7910.00 Printing/Repro		
Total for Printing/Repro		(7.80)
7920.00 Billable Vehicles Exp.		
Total for Billable Vehicles Exp.		(50,427.63)
	Subtotal	(57,728.81)
	Total Indirects	3,421,643.04
	Total Operating Expenses	5,805,577.56
	Total Operating Profit/Loss	1,069,486.59
<b>Other Charges</b>		
9001.00 Interest Income		
Total for Interest Income		(4,941.21)
9004.00 Other Owners Expenses		
Total for Other Owners Expenses		58,313.48
9006.00 W.O projects		
Total for W.O projects		524,113.85
9007.00 Depreciation		
Total for Depreciation		68,915.58
9009.00 Deferred Compensation Exp		
Total for Deferred Compensation Exp		82,230.01
	Subtotal	728,631.71
	Total Other Charges	728,631.71
	Total Profit/Loss	340,854.88





---

**Orlando**

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

**Fort Lauderdale**

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

**Miami**

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

**DeLand**

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

**Clearwater**

2329 Sunset Point Road, Suite 200  
Clearwater, Florida



**E SCIENCES, INCORPORATED  
CITY OF POMPANO BEACH  
2021 SCHEDULE OF FEES**

**A. PERSONNEL**

Charges will be made at the following rates for staff time spent in administration, consultation or meetings related to the project, field inspection and evaluation, review and analysis of field and laboratory data, travel time, report preparation and review, etc.

	<u>Rate Per Hour</u>
<b>PRINCIPAL</b> Registered Engineer/Geologist/Scientist	\$242.00
<b>DIRECTOR/CHIEF</b> Engineer/Geologist/Scientist	\$242.00
<b>SENIOR II</b> Registered Engineer/Geologist/Scientist	\$215.00
<b>SENIOR I</b> Registered Engineer/Geologist/Scientist	\$176.00
<b>PROJECT II</b> Engineer/Geologist/Scientist	\$149.00
<b>PROJECT I</b> Engineer/Geologist/Scientist	\$132.00
<b>STAFF II</b> Engineer/Geologist/Scientist	\$116.00
<b>STAFF I</b> Engineer/Geologist/Scientist	\$99.00
<b>SENIOR GIS Analyst</b>	\$132.00
<b>CADD/GIS Analyst</b>	\$99.00
<b>TECHNICIAN II</b>	\$88.00
<b>TECHNICIAN I</b>	\$77.00
<b>ADMINISTRATIVE ASSISTANT/CLERICAL SUPPORT</b>	\$66.00

**B. EXPENSES**

- 1) Direct non-salary expenses incurred by the project and not applicable to general overhead will be invoiced at our cost multiplied by 1.15. Examples of direct expenses include project supplies, travel and lodging.

**C. SUBCONTRACTS**

- 1) Subcontract services outside E Sciences, Incorporated (if required) will be invoiced at our cost multiplied by 1.15.

**D. ESCALATION FOR MULTI-YEAR CONTRACTS**

- 1) Escalation rates will apply one year after the effective date of the contract.
- 2) The escalation labor rate will be 3% per category per year.

## EXHIBIT C

### INSURANCE REQUIREMENTS

CONSULTANT shall not commence services under the terms of this Agreement until certification or proof of insurance detailing terms and provisions has been received and approved in writing by the CITY's Risk Manager. If you are responding to a bid and have questions regarding the insurance requirements hereunder, please contact the City's Purchasing Department at (954) 786-4098. If the contract has already been awarded, please direct any queries and proof of the requisite insurance coverage to City staff responsible for oversight of the subject project/contract.

CONSULTANT is responsible to deliver to the CITY for timely review and written approval/disapproval Certificates of Insurance which evidence that all insurance required hereunder is in full force and effect and which name on a primary basis, the CITY as an additional insured on all such coverage.

Throughout the term of this Agreement, CITY, by and through its Risk Manager, reserve the right to review, modify, reject or accept any insurance policies required by this Agreement, including limits, coverages or endorsements. CITY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as CITY's review or acceptance of insurance maintained by CONSULTANT, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by CONSULTANT under this Agreement.

Throughout the term of this Agreement, CONSULTANT and all subcontractors or other agents hereunder, shall, at their sole expense, maintain in full force and effect, the following insurance coverages and limits described herein, including endorsements.

A. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. CONSULTANT further agrees to be responsible for employment, control and conduct of its employees and for any injury sustained by such employees in the course of their employment.

B. Liability Insurance.

(1) Naming the City of Pompano Beach as an additional insured as CITY's interests may appear, on General Liability Insurance only, relative to claims which arise from CONSULTANT's negligent acts or omissions in connection with CONSULTANT's performance under this Agreement.

(2) Such Liability insurance shall include the following checked types of insurance and indicated minimum policy limits.

**Type of Insurance****Limits of Liability****GENERAL LIABILITY:**

Minimum 1,000,000 Per Occurrence and  
\$1,000,000 Per Aggregate

\* Policy to be written on a claims incurred basis

XX	comprehensive form	bodily injury and property damage
XX	premises - operations	bodily injury and property damage
—	explosion & collapse hazard	
—	underground hazard	
XX	products/completed operations hazard	bodily injury and property damage combined
XX	contractual insurance	bodily injury and property damage combined
XX	broad form property damage	bodily injury and property damage combined
XX	independent contractors	personal injury
XX	personal injury	

**AUTOMOBILE LIABILITY:**

Minimum \$1,000,000 Per Occurrence and \$1,000,000 Per Aggregate. Bodily injury (each person) bodily injury (each accident), property damage, bodily injury and property damage combined.

- XX comprehensive form
- XX owned
- XX hired
- XX non-owned

**REAL & PERSONAL PROPERTY**

— comprehensive form                      Agent must show proof they have this coverage.

**EXCESS LIABILITY**

Per Occurrence    Aggregate

XX	Umbrella and other than umbrella	bodily injury and property damage combined	\$2,000,000	\$2,000,000
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**PROFESSIONAL LIABILITY**

Per Occurrence    Aggregate

XX	* Policy to be written on a claims made basis		\$2,000,000	\$2,000,000
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(3) If Professional Liability insurance is required, CONSULTANT agrees the indemnification and hold harmless provisions set forth in the Agreement shall survive the termination or expiration of the Agreement for a period of three (3) years unless terminated sooner by the applicable statute of limitations.

C. Employer's Liability. If required by law, CONSULTANT and all subcontractors shall, for the benefit of their employees, provide, carry, maintain and pay for Employer's Liability

Insurance in the minimum amount of One Hundred Thousand Dollars (\$100,000.00) per employee, Five Hundred Thousand Dollars (\$500,000) per aggregate.

D. Policies: Whenever, under the provisions of this Agreement, insurance is required of the CONSULTANT, the CONSULTANT shall promptly provide the following:

- (1) Certificates of Insurance evidencing the required coverage;
- (2) Names and addresses of companies providing coverage;
- (3) Effective and expiration dates of policies; and
- (4) A provision in all policies affording CITY thirty (30) days written notice by a carrier of any cancellation or material change in any policy.

E. Insurance Cancellation or Modification. Should any of the required insurance policies be canceled before the expiration date, or modified or substantially modified, the issuing company shall provide thirty (30) days written notice to the CITY.

F. Waiver of Subrogation. CONSULTANT hereby waives any and all right of subrogation against the CITY, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONSULTANT shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy which includes a condition to the policy not specifically prohibiting such an endorsement, or voids coverage should CONSULTANT enter into such an agreement on a pre-loss basis.





Florida's Warmest Welcome

**CITY OF POMPANO BEACH  
REQUEST FOR LETTERS OF INTEREST  
E-22-20**

**CONTINUING CONTRACT FOR PROFESSIONAL  
ENVIRONMENTAL TESTING**

**RLI OPENING: August 10, 2020 2:00 P.M.  
PURCHASING OFFICE  
1190 N.E. 3RD AVENUE, BUILDING C (Front)  
POMPANO BEACH, FLORIDA 33060**

July 9, 2020

CITY OF POMPANO BEACH, FLORIDA  
REQUEST FOR LETTERS OF INTEREST  
E-20-20

CONTINUING CONTRACT FOR PROFESSIONAL ENVIRONMENTAL TESTING

Pursuant to Florida Statutes Chapter 287.055 "Consultants' Competitive Negotiation Act" the City of Pompano Beach invites professional firms to submit qualifications and experience for consideration to provide professional environmental testing services to the City on a continuing as-needed basis.

The City will receive sealed proposals until **2:00 p.m. (local), August 10, 2020**. Proposals must be submitted electronically through the eBid System on or before the due date/time stated above. Any proposal received after the due date and time specified, will not be considered. Any uncertainty regarding the time a proposal is received will be resolved against the Proposer.

Proposer must be registered on the City's eBid System in order to view the solicitation documents and respond to this solicitation. The complete solicitation document can be downloaded for free from the eBid System as a pdf at: <https://pompanobeachfl.ionwave.net>. The City is not responsible for the accuracy or completeness of any documentation the Proposer receives from any source other than from the eBid System. Proposer is solely responsible for downloading all required documents. A list of proposers will be read aloud in a public forum.

### **Introduction**

The City of Pompano Beach is seeking qualified engineering firms to work on various projects for the City. The projects range in magnitude from small-scale to large or specialized designs.

### **The types of projects to be undertaken may include, but are not limited to:**

- The City's approved Capital Improvement Plan (CIP) maybe found here: [Adopted Capital Improvement Plan FY 2020-2024](#)
- Preparation of Phase I, Phase II, and Phase III assessments
- Roadway, Streetscape or Parking Lot projects.
- Water or Reuse Main projects.
- Gravity Sewer Main projects.
- Force Main projects.
- Lift station/pump station rehabilitation projects.
- Parks and Recreational Facilities.
- Seawall and dock construction and repair.
- Storm Water/Drainage Improvement projects
- Consultation for Emergency Water/Wastewater/Stormwater Repairs.
- Inspection Services for Emergency Water/Wastewater/Stormwater Repairs.
- Canal and lake dredging.
- Grant reimbursement, FAA and FDOT support and compliance.

- SRF support and Davis Bacon Wage Reporting requirements
- Support Services for Remediation
- Demolition Projects

### **Scope of Services**

The City intends to issue multiple contracts to engineering firms to provide continuing professional services to the City for various projects as-needed. Professional services under this contract will be restricted to those required for any project for which construction costs will not exceed \$4 million, and for any study activity for which fees will not exceed \$500,000.00.

### **The scope of services may include, but is not limited to, the following:**

- Prepare preliminary reports and/or alternative recommendations. This may include various types of research, modeling, testing and field data analysis.
- Prepare all required permit applications and submittal packages as required for permit issuance of all agency permits (i.e. Federal, State, County and City)
- Provide project management services for projects, including turbidity monitoring.
- Prepare recommendations and cost estimates for compliance with regulatory requirements.
- Provide project close-out services. This may include preliminary and final acceptance of projects, preparation and approval of punch list items and project certification as required to all permitting agencies.
- Prepare reports for regulatory compliance monitoring and assessments.
- Reporting on endangered animals (turtles and owls)

Firms must have demonstrated and specific experience in coordinating with local, county, state, and federal regulatory agencies as it relates to environmental regulatory requirements.

Additionally, if firms do not have in-house testing capabilities, they must detail the nature and extent of partnerships with a qualified firm or laboratory. Laboratories performing analytical work must be NELAC certified for the analytes of interest and operate under a Laboratory Quality Manual following NELAC requirements. Firms performing environmental sampling or field data collection must have a Field Sampling Quality Manual and follow the current Florida Department of Environmental Protection Standard Operating Procedures.

Firms must have previous municipal experience and must be licensed to practice **Professional Environmental Testing** in the State of Florida, as required by all applicable Florida State Statutes and Board of Professional Regulation.

#### **A. Task/Deliverables**

Tasks and deliverables will be determined per project. Each project shall require a signed Work Authorization (WA) form from the awarded firm to be provided to the City. Forms shall be completed in its entirety and include the agreed upon scope, tasks, schedule, cost, and deliverables for the project. Consultant will be required to provide all applicable insurance requirements.

#### **B. Term of Contract**

The Term of this Contract shall be for an initial period of five (5) years from the date of execution by both the City and the Consultant.

**C. Project Web Requirements:**

1. This project will utilize e-Builder Enterprise™, a web-based project management tool. This web-based application is a collaboration tool, which will allow all project team members continuous access through the Internet to important project data as well as up to the minute decision and approval status information.

e-Builder Enterprise™ is a comprehensive Project and Program Management system that the City will use to manage all project documents, communications and costs between the Lead Consultant, Sub-Consultants, Design Consultants, Contractor and Owner. e-Builder Enterprise™ includes extensive reporting capabilities to facilitate detailed project reporting in a web-based environment that is accessible to all parties and easy to use. Training will be provided for all consultants selected to provide services for the City of Pompano Beach.

2. Lead and Sub-Consultants shall conduct project controls outlined by the Owner, Project Manager, and/or Construction Manager, utilizing e-Builder Enterprise™. **The designated web-based application license(s) shall be provided by the City to the Prime Consultant and Sub-Consultants.** No additional software will be required.

Lead Consultant and Sub-Consultants shall have the responsibility for logging in to the project web site on a daily basis, and as necessary to be kept fully apprised of project developments and required action items. , These may include but are not limited to: Contracts, Contract Exhibits, Contract Amendments, Drawing Issuances, Addenda, Bulletins, Permits, Insurance & Bonds, Safety Program Procedures, Safety Notices, Accident Reports, Personnel Injury Reports, Schedules, Site Logistics, Progress Reports, Correspondence, Daily Logs, Non-Conformance Notices, Quality Control Notices, Punch Lists, Meeting Minutes, Requests for Information, Submittal Packages, Substitution Requests, Monthly Payment Request Applications, Supplemental Instructions, Owner Change Directives, Potential Change Orders, Change Order Requests, Change Orders and the like. All supporting data including but not limited to shop drawings, product data sheets, manufacturer data sheets and instructions, method statements, safety SDS sheets, Substitution Requests and the like will be submitted in digital format via e-Builder Enterprise™.

**D. Local Business Program**

On March 13, 2018, the City Commission approved Ordinance 2018-46, establishing a Local Business Program, a policy to increase the participation of City of Pompano Beach businesses in the City's procurement process.

For purposes of this solicitation, "Local Business" will be defined as follows:

1. **TIER 1 LOCAL VENDOR. POMPANO BEACH BUSINESS EMPLOYING POMPANO BEACH RESIDENTS.** A business entity which has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least ten percent who are residents of the City of Pompano Beach or includes subcontracting commitments to Local Vendors Subcontractors for at least ten percent of the contract value. The permanent place of business may not be a post office box.

The business must be located in a non-residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the City of Pompano Beach for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.

2. **TIER 2 LOCAL VENDOR. BROWARD COUNTY BUSINESS EMPLOYING POMPANO BEACH RESIDENTS OR UTILIZING LOCAL VENDOR SUBCONTRACTORS.** A business entity which has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least 15% who are residents of the City of Pompano Beach or includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value. The permanent place of business may not be a post office box. The business must be located in a non- residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the respective Broward County municipality for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.
3. **LOCAL VENDOR SUBCONTRACTOR. POMPANO BEACH BUSINESS.** A business entity which has maintained a permanent place of business within the city limits of the City of Pompano Beach. The permanent place of business may not be a post office box. The business must be located in a non-residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the City of Pompano Beach for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.

You can view the list of City businesses that have a current Business Tax Receipt on the City's website, and locate local firms that are available to perform the work required by the bid specifications. The business information, sorted by business use classification, is posted on the webpage for the Business Tax Receipt Division: [www.pompanobeachfl.gov](http://www.pompanobeachfl.gov) by selecting the Pompano Beach Business Directory in the Shop Pompano! section.

The City of Pompano Beach is **strongly committed** to insuring the participation of City of Pompano Beach Businesses as contractors and subcontractors for the procurement of goods and services, including labor, materials and equipment. Proposers are required to participate in the City of Pompano Beach's Local Business Program by including, as part of their package, the Local Business Participation Form (Exhibit A,) listing the local businesses that will be used on the contract, and the Letter of Intent Form (Exhibit B) from each local business that will participate in the contract.

**Please note that, while no goals have been established for this solicitation, the City encourages Local Business participation in *all* of its procurements.**

If a Prime Contractor/Vendor is not able to achieve the level of goal attainment of the contract, the Prime Vendor will be requested to demonstrate and document that good faith efforts were made to achieve the goal by providing the Local Business

Unavailability Form (Exhibit C), listing firms that were contacted but not available, and the Good Faith Effort Report (Exhibit D), describing the efforts made to include local business participation in the contract. This documentation shall be provided to the City Commission for acceptance.

The awarded proposer will be required to submit "Local Business Subcontractor Utilization Reports" during projects and after projects have been completed. The reports will be submitted to the assigned City project manager of the project. The Local Business Subcontractor Utilization Report template and instructions have been included in the bid document.

Failure to meet Local Vendor Goal commitments will result in "unsatisfactory" compliance rating. Unsatisfactory ratings may impact award of future projects if a sanction is imposed by the City Commission.

The city shall award a Local Vendor preference based upon vendors, contractors, or subcontractors who are local with a preferences follows:

1. For evaluation purposes, the Tier 1 and Tier 2 businesses shall be a criterion for award in this Solicitation. No business may qualify for more than one tier level.
2. For evaluation purposes, local vendors shall receive the following preferences:
  - a. Tier 1 business as defined by this subsection shall be granted a preference in the amount of five percent of total score.
  - b. Tier 2 business as defined by this subsection shall be granted a preference in the amount of two and one-half percent of total score.
3. It is the responsibility of the awarded vendor/contractor to comply with all Tier 1 and Tier 2 guidelines. The awarded vendor/contractor must ensure that all requirements are met before execution of a contract.

#### **E. Required Proposal Submittal**

Sealed proposals shall be submitted electronically through the eBid System on or before the due date/time stated above. Proposer shall upload response as one (1) file to the eBid System. The file size for uploads is limited to 250 MB. If the file size exceeds 10 MB the response must be split and uploaded as two (2) separate files.

**Information to be included in the proposal:** In order to maintain comparability and expedite the review process, it is required that proposals be organized in the manner specified below, with the sections clearly labeled:

**Title page:**

Show the project name and number, the name of the Proposer's firm, address, telephone number, name of contact person and the date.

**Table of Contents:**

Include a clear identification of the material by section and by page.

**Letter of Transmittal:**

Briefly state the Proposer's understanding of the project and express a positive commitment to provide the services described herein. State the name(s) of the person(s) who will be authorized to make representations for the Proposer, their title(s), office and E-mail addresses and telephone numbers. Please limit this section to two pages.

**Technical Approach:**

Firms or teams shall submit their technical approach to the tasks described in the scope, including details of how each phase of the project would be completed, and how their firm proposes to maintain time schedules and cost controls.

**Schedule:**

Proposer shall provide a timeline that highlights proposed tasks that will meet all applicable deadlines.

**References:**

References for past projects in the tri-county area (Broward, Palm Beach, and Miami-Dade.) Describe the scope of each project in physical terms and by cost, describe the respondent's responsibilities, and provide the contact information (name, email, telephone number) of an individual in a position of responsibility who can attest to respondent's activities in relation to the project.

List any prior projects performed for the City of Pompano Beach.

**Project Team Form:**

Submit a completed "Project Team" form. The purpose of this form is to identify the key members of your team, including any specialty subconsultants.

**Organizational Chart:**

Specifically identify the management plan (if needed) and provide an organizational chart for the team. The proposer must describe at a minimum, the basic approach to these projects, to include reporting hierarchy of staff and sub-consultants, clarify the individual(s) responsible for the co-ordination of separate components of the scope of services.

**Statement of Skills and Experience of Project Team:**

Describe the experience of the entire project team as it relates to the types of projects described in the Scope section of this solicitation. Include the experience of the prime consultants as well as other members of the project team; i.e., additional personnel, sub-consultants, branch office, team members, and other resources anticipated to be utilized for this project. Name specific projects (successfully completed within the past five years) where the team members have performed similar projects previously.

**Resumes of Key Personnel**

Include resumes for key personnel for prime and subconsultants.

**Office Locations:**

Identify the location of the office from which services will be rendered, and the number of professional and administrative staff at the prime office location. Also identify the location of office(s) of the prime and/or sub consultants that may be utilized to support any or all of the professional services listed above and the number of professional and administrative staff at the prime office location.

If firms are situated outside the local area, (Broward, Palm Beach, and Miami-Dade counties) include a brief statement as to whether or not the firm will arrange for a local office during the term of the contract, if necessary.

**Local Businesses:**

Completed Local Business program forms, Exhibits A-D.

NOTE: Form B must be signed by a representative of the subcontractor, NOT of the Prime.

**Litigation:**

Disclose any litigation within the past five (5) years arising out your firm's performance, including status/outcome.

**City Forms:**

The Proposer Information Page Form and any other required forms must be completed and submitted electronically through the City's eBid System. The City reserves the right to request additional information to ensure the proposer is financially solvent and has sufficient financial resources to perform the contract and shall provide proof thereof of its financial solvency. The City may as at its sole discretion ask for additional proof of financial solvency, including additional documents post proposal opening, and prior to evaluation that demonstrates the Proposer's ability to perform the resulting contract and provide the required materials and/or services.

**Reviewed and Audited Financial Statements:**

Proposers shall be financially solvent and appropriately capitalized to be able to service the City for the duration of the contract. Proposers shall provide a complete financial statement of the firm's most recent audited financial statements, indicating organization's financial condition. Must be uploaded to the Response Attachments tab in the eBid System as a separate file titled "Financial Statements" and marked "CONFIDENTIAL."

Financial statements provided shall not be older than twelve (12) months prior to the date of filing this solicitation response. The financial statements are to be reviewed and submitted with any accompanying notes and supplemental information. The City of Pompano Beach reserve the right to reject financial statements in which the financial condition shown is of a date twelve (12) months or more prior to the date of submittals.

The City is a public agency subject to Chapter 119, Florida's Public Records Law and is required to provide the public with access to public records, however, financial statements that are required as submittals to prequalify for a solicitation will be exempt from public disclosure.

The City reserves the right to request additional information to ensure the proposer is financially solvent and has sufficient financial resources to perform the contract and shall provide proof thereof of its financial solvency. The City may as at its sole discretion ask for additional proof of financial solvency, including additional documents post proposal opening, and prior to evaluation that demonstrates the Proposer's ability to perform the resulting contract and provide the required materials and/or services.

A combination of two (2) or more of the following may substitute for audited financial statements:

- 1) Bank letters/statements for the past 3 months
- 2) Balance sheet, profit and loss statement, cash flow report
- 3) IRS returns for the last 2 years
- 4) Letter from CPA showing profits and loss statements (certified)

## F. Insurance

CONTRACTOR shall not commence services under the terms of this Agreement until certification or proof of insurance detailing terms and provisions has been received and approved in writing by the CITY's Risk Manager. If you are responding to a bid and have questions regarding the insurance requirements hereunder, please contact the CITY's Purchasing Department at (954) 786-4098. If the contract has already been awarded, please direct any queries and proof of the requisite insurance coverage to CITY staff responsible for oversight of the subject project/contract.

CONTRACTOR is responsible to deliver to the CITY for timely review and written approval/disapproval Certificates of Insurance which evidence that all insurance required hereunder is in full force and effect and which name on a primary basis, the CITY as an additional insured on all such coverage.

Throughout the term of this Agreement, CITY, by and through its Risk Manager, reserve the right to review, modify, reject or accept any insurance policies required by this Agreement, including limits, coverages or endorsements. CITY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as CITY's review or acceptance of insurance maintained by CONTRACTOR, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by CONTRACTOR under this Agreement.

Throughout the term of this Agreement, CONTRACTOR and all subcontractors or other agents hereunder, shall, at their sole expense, maintain in full force and effect, the following insurance coverages and limits described herein, including endorsements.

1. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. CONTRACTOR further agrees to be responsible for employment, control and conduct of its employees and for any injury sustained by such employees in the course of their employment.

2. Liability Insurance.

(a) Naming the City of Pompano Beach as an additional insured as CITY's interests may appear, on General Liability Insurance only, relative to claims which arise from CONTRACTOR's negligent acts or omissions in connection with Contractor's performance under this Agreement.

(b) Such Liability insurance shall include the following checked types of insurance and indicated minimum policy limits.

**Type of Insurance**

**Limits of Liability**

<b>GENERAL LIABILITY:</b>	Minimum \$1,000,000 Per Occurrence and \$2,000,000 Per Aggregate	
* Policy to be written on a claims incurred basis		
XX comprehensive form	bodily injury and property damage	
<b>XX premises - operations explosion &amp; collapse hazard</b>	<b>bodily injury and property damage</b>	
— underground hazard		
XX products/completed operations hazard	bodily injury and property damage combined	
XX contractual insurance	bodily injury and property damage combined	
XX broad form property damage	bodily injury and property damage combined	
XX independent contractors	personal injury	
XX personal injury		
— sexual abuse/molestation	Minimum \$1,000,000 Per Occurrence and Aggregate	
— liquor legal liability	Minimum \$1,000,000 Per Occurrence and Aggregate	

**AUTOMOBILE LIABILITY:** Minimum \$1,000,000 Per Occurrence and Aggregate. Bodily injury (each person) bodily injury (each accident), Property damage, bodily injury and property damage combined.

- XX comprehensive form
- XX owned
- XX hired
- XX non-owned

**REAL & PERSONAL PROPERTY**

— comprehensive form Agent must show proof they have this coverage.

<b>EXCESS LIABILITY</b>		Per Occurrence	Aggregate
— other than umbrella	bodily injury and property damage combined	\$1,000,000	\$1,000,000

**PROFESSIONAL LIABILITY** Per Occurrence Aggregate

XX \* Policy to be written on a claims made basis \$1,000,000 \$1,000,000

(c) If Professional Liability insurance is required, Contractor agrees the indemnification and hold harmless provisions set forth in the Agreement shall survive the termination or expiration of the Agreement for a period of four (4) years unless terminated sooner by the applicable statute of limitations.

**CYBER LIABILITY**

Per Occurrence Aggregate

__	* Policy to be written on a claims made basis	\$1,000,000	\$1,000,000
__	Network Security / Privacy Liability		
__	Breach Response / Notification Sublimit (minimum limit of 50% of policy aggregate)		
__	Technology Products E&O - \$1,000,000 (only applicable for vendors supplying technology related services and or products)		
__	Coverage shall be maintained in effect during the period of the Agreement and for not less than four (4) years after termination/ completion of the Agreement.		

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3. Employer's Liability. If required by law, CONTRACTOR and all subcontractors shall, for the benefit of their employees, provide, carry, maintain and pay for Employer's Liability Insurance in the minimum amount of One Hundred Thousand Dollars (\$100,000.00) per employee, Five Hundred Thousand Dollars (\$500,000) per aggregate.

4. Policies: Whenever, under the provisions of this Agreement, insurance is required of the CONTRACTOR, the CONTRACTOR shall promptly provide the following:

- (a) Certificates of Insurance evidencing the required coverage;
- (b) Names and addresses of companies providing coverage;
- (c) Effective and expiration dates of policies; and

(d) A provision in all policies affording CITY thirty (30) days written notice by a carrier of any cancellation or material change in any policy.

5. Insurance Cancellation or Modification. Should any of the required insurance policies be canceled before the expiration date, or modified or substantially modified, the issuing company shall provide thirty (30) days written notice to the CITY.

6. Waiver of Subrogation. CONTRACTOR hereby waives any and all right of subrogation against the CITY, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONTRACTOR shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy which includes a condition to the policy not specifically prohibiting such an endorsement, or voids coverage should CONTRACTOR enter into such an agreement on a pre-loss basis.

**G. Selection/Evaluation Process**

A Selection/Evaluation Committee will be appointed to select the most qualified firm(s). The Selection/Evaluation Committee will present their findings to the City Commission.

Proposals will be evaluated using the following criteria.

Line	Criteria	Point Range
1	<p>Prior experience of the firm with projects of similar size and complexity:</p> <ul style="list-style-type: none"> <li>a. Number of similar projects</li> <li>b. Complexity of similar projects</li> <li>c. References from past projects performed by the firm</li> <li>d. Previous projects performed for the City (provide description)</li> <li>e. Litigation within the past 5 years arising out of firm's performance (list, describe outcome)</li> </ul>	0-15
2	<p>Qualifications of personnel including sub consultants:</p> <ul style="list-style-type: none"> <li>a. Organizational chart for project</li> <li>b. Number of technical staff</li> <li>c. Qualifications of technical staff: <ul style="list-style-type: none"> <li>(1) Number of licensed staff</li> <li>(2) Education of staff</li> <li>(3) Experience of staff on similar projects</li> </ul> </li> </ul>	0-15
3	<p>Proximity of the nearest office to the project location:</p> <ul style="list-style-type: none"> <li>a. Location</li> <li>b. Number of staff at the nearest office</li> </ul>	0-15
4	<p>Current and Projected Workload</p> <p>Rating is to reflect the workload (both current and projected) of the firm, staff assigned, and the percentage availability of the staff member assigned. Respondents which fail to note both existing and projected workload conditions and percentage of availability of staff assigned shall receive zero (0) points</p>	0-15
5	<p>Demonstrated Prior Ability to Complete Project on Time</p> <p>Respondents will be evaluated on information provided regarding the firm's experience in the successful completion and steadfast conformance to similar project schedules. Provide an example of successful approaches utilized to achieve a timely project completion. Respondents who demonstrate the ability to complete projects on time shall receive more points.</p>	0-15
6	<p>Demonstrated Prior Ability to Complete Project on Budget</p> <p>Proposers will be evaluated on their ability to adhere to initial design budgets. Examples provided should show a comparison between initial negotiated task costs and final completion costs. Respondents should explain in detail any budgetary overruns due to scope modifications. Respondents which fail to provide schedule and budget information as requested will receive zero (0) points.</p>	0-15
7	<p>Is the firm a certified minority business enterprise as defined by the Florida Small and Minority Business Assistance Act of 1985? (Certification of any sub-contractors should also be included with the response.)</p>	0-10

Additional 0-5% for Tier1/Tier2 Local Business will be calculated on combined scoring totals of each company.

**NOTE:**

Financial statements that are required as submittals to prequalify for a solicitation will be exempt from public disclosure; however, financial statements submitted to prequalify for a solicitation, and are not required by the City, may be subject to public disclosure.

Value of Work Previously Awarded to Firm (Tie-breaker) - In the event of a tie, the firm with the lowest value of work as a prime contractor on City of Pompano Beach projects within the last five years will receive the higher ranking, the firm with the next lowest value of work shall receive the next highest ranking, and so on. The analysis of past work will be based on the City's Purchase Order and payment records.

The Committee has the option to use the above criteria for the initial ranking to short-list Proposers and to use an ordinal ranking system to score short-listed Proposers following presentations (if deemed necessary) with a score of "1" assigned to the short-listed Proposer deemed most qualified by the Committee.

Each firm should submit documentation that evidences the firm's capability to provide the services required for the Committee's review for short listing purposes. After an initial review of the Proposals, the City may invite Proposers for an interview to discuss the proposal and meet firm representatives, particularly key personnel who would be assigned to the project. Should interviews be deemed necessary, it is understood that the City shall incur no costs as a result of this interview, nor bear any obligation in further consideration of the submittal.

When more than three responses are received, the committee shall furnish the City Commission (for their approval) a listing, in ranked order, of no fewer than three firms deemed to be the most highly qualified to perform the service. If three or less firms respond to the Solicitation, the list will contain the ranking of all responses.

The City Commission has the authority to (including, but not limited to); approve the recommendation; reject the recommendation and direct staff to re-advertise the solicitation; or, review the responses themselves and/or request oral presentations and determine a ranking order that may be the same or different from what was originally presented to the City Commission.

Value of Work Previously Awarded to Firm (Tie-breaker) - In the event of a tie, the firm with the lowest value of work as a prime contractor on City of Pompano Beach projects within the last five years will receive the higher ranking, the firm with the next lowest value of work shall receive the next highest ranking, and so on. The analysis of past work will be based on the City's Purchase Order and payment records.

**H. Hold Harmless and Indemnification**

Proposer covenants and agrees that it will indemnify and hold harmless the City and all of its officers, agents, and employees from any claim, loss, damage, cost, charge or expense arising out of any act, action, neglect or omission by the Proposer, whether direct or indirect, or whether to any person or property to which the City or said parties may be

subject, except that neither the Proposer nor any of its subcontractors will be liable under this section for damages arising out of injury or damage to persons or property directly caused by or resulting from the sole negligence of the City or any of its officers, agents or employees.

#### **I. Right to Audit**

Contractor's records which shall include but not be limited to accounting records, written policies and procedures, computer records, disks and software, videos, photographs, subcontract files (including proposals of successful and unsuccessful bidders), originals estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to this contract (all the foregoing hereinafter referred to as "records") shall be open to inspection and subject to audit and/or reproduction, during normal working hours, by Owner's agent or its authorized representative to the extent necessary to adequately permit evaluation and verification of any invoices, payments or claims submitted by the contractor or any of his payees pursuant to the execution of the contract. Such records subject to examination shall also include, but not be limited to, those records necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with this contract.

For the purpose of such audits, inspections, examinations and evaluations, the Owner's agent or authorized representative shall have access to said records from the effective date of this contract, for the duration of the Work, and until 5 years after the date of final payment by Owner to Consultant pursuant to this contract.

Owner's agent or its authorized representative shall have access to the Contractor's facilities, shall have access to all necessary records, and shall be provided adequate and appropriate work space, in order to conduct audits in compliance with this article. Owner's agent or its authorized representative shall give auditees reasonable advance notice of intended audits.

Contractor shall require all subcontractors, insurance agents, and material suppliers (payees) to comply with the provisions of this article by insertion of the requirements hereof in any written contract agreement. Failure to obtain such written contracts which include such provisions shall be reason to exclude some or all of the related payees' costs from amounts payable to the Contractor pursuant to this contract.

#### **J. Retention of Records and Right to Access**

The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law, as amended. Specifically, the Contractor shall:

1. Keep and maintain public records required by the City in order to perform the service;
2. Upon request from the City's custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a

reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law;

3. Ensure that public records that are exempt or that are confidential and exempt from public record requirements are not disclosed except as authorized by law;

4. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Contractor does not transfer the records to the City; and

5. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Contractor, or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.

**K. Communications**

No negotiations, decisions, or actions shall be initiated or executed by the firm as a result of any discussions with any City employee. Only those communications, which are in writing from the City, may be considered as a duly authorized expression on behalf of the City. In addition, only communications from firms that are signed and in writing will be recognized by the City as duly authorized expressions on behalf of firms.

**L. No Discrimination**

There shall be no discrimination as to race, sex, color, age, religion, or national origin in the operations conducted under any contract with the City.

**M. Independent Contractor**

The selected firm will conduct business as an independent contractor under the terms of this contract. Personnel services provided by the firm shall be by employees of the firm and subject to supervision by the firm, and not as officers, employees, or agents of the City. Personnel policies, tax responsibilities, social security and health insurance, employee benefits, purchasing policies and other similar administrative procedures applicable to services rendered under this agreement shall be those of the firm.

**N. Staff Assignment**

The City of Pompano Beach reserves the right to approve or reject, for any reasons, Proposer's staff assigned to this project at any time. Background checks may be required.

**O. Contract Terms**

The contract resulting from this Solicitation shall include, but not be limited to the following terms:

The contract shall include as a minimum, the entirety of this Solicitation document, together with the successful Proposer's proposal. Contract shall be prepared by the City of Pompano Beach City Attorney.

If the City of Pompano Beach defends any claim, demand, cause of action, or lawsuit arising out of any act, action, negligent acts or negligent omissions, or willful misconduct of the contractor, its employees, agents or servants during the performance of the contract, whether directly or indirectly, contractor agrees to reimburse the City of Pompano Beach for all expenses, attorney's fees, and court costs incurred in defending such claim, cause of action or lawsuit.

**P. Waiver**

It is agreed that no waiver or modification of the contract resulting from this Solicitation, or of any covenant, condition or limitation contained in it shall be valid unless it is in writing and duly executed by the party to be charged with it, and that no evidence of any waiver or modification shall be offered or received in evidence in any proceeding, arbitration, or litigation between the parties arising out of or affecting this contract, or the right or obligations of any party under it, unless such waiver or modification is in writing, duly executed as above. The parties agree that the provisions of this paragraph may not be waived except by a duly executed writing.

**Q. Survivorship Rights**

This contract resulting from this Solicitation shall be binding on and inure to the benefit of the respective parties and their executors, administrators, heirs, personal representative, successors and assigns.

**R. Termination**

The contract resulting from this Solicitation may be terminated by the City of Pompano Beach without cause upon providing contractor with at least sixty (60) days prior written notice.

Should either party fail to perform any of its obligations under the contract resulting from this Solicitation for a period of thirty (30) days after receipt of written notice of such failure, the non-defaulting part will have the right to terminate the contract immediately upon delivery of written notice to the defaulting part of its election to do so. The foregoing rights of termination are in addition to any other rights and remedies that such party may have.

**S. Manner of Performance**

Proposer agrees to perform its duties and obligations under the contract resulting from this Solicitation in a professional manner and in accordance with all applicable local, federal and state laws, rules and regulations.

Proposer agrees that the services provided under the contract resulting from this Solicitation shall be provided by employees that are educated, trained and experienced, certified and licensed in all areas encompassed within their designated duties. Proposer

agrees to furnish the City of Pompano Beach with all documentation, certification, authorization, license, permit, or registration currently required by applicable laws or rules and regulations. Proposer further certifies that it and its employees are now in and will maintain good standing with such governmental agencies and that it and its employees will keep all license, permits, registration, authorization or certification required by applicable laws or regulations in full force and effect during the term of this contract. Failure of Proposer to comply with this paragraph shall constitute a material breach of contract.

**T. Acceptance Period**

Proposals submitted in response to this Solicitation must be valid for a period no less than ninety (90) days from the closing date of this solicitation.

**U. Conditions and Provisions**

The completed proposal (together with all required attachments) must be submitted electronically to City on or before the time and date stated herein. All Proposers, by electronic submission of a proposal, shall agree to comply with all of the conditions, requirements and instructions of this solicitation as stated or implied herein. All proposals and supporting materials submitted will become the property of the City.

Proposer's response shall not contain any alteration to the document posted other than entering data in spaces provided or including attachments as necessary. By submission of a response, Proposer affirms that a complete set of bid documents was obtained from the eBid System or from the Purchasing Division only and no alteration of any kind has been made to the solicitation. Exceptions or deviations to this proposal may not be added after the submittal date.

All Proposers are required to provide all information requested in this solicitation. Failure to do so may result in disqualification of the proposal.

The City reserves the right to postpone or cancel this solicitation, or reject all proposals, if in its sole discretion it deems it to be in the best interest of the City to do so.

The City reserves the right to waive any technical or formal errors or omissions and to reject all proposals, or to award contract for the items herein, in part or whole, if it is determined to be in the best interests of the City to do so.

The City shall not be liable for any costs incurred by the Proposer in the preparation of proposals or for any work performed in connection therein.

**V. Standard Provisions**

1. Governing Law

Any agreement resulting from this Solicitation shall be governed by the laws of the State of Florida, and the venue for any legal action relating to such agreement will be in Broward County, Florida.

2. Licenses

In order to perform public work, the successful Proposer shall:

Be licensed to do business in Florida, if an entity, and hold or obtain such Contractor' and Business Licenses if required by State Statutes or local ordinances.

3. Conflict Of Interest

For purposes of determining any possible conflict of interest, each Proposer must disclose if any Elected Official, Appointed Official, or City Employee is also an owner, corporate officer, or an employee of the firm. If any Elected Official, Appointed Official, or City Employee is an owner, corporate officer, or an employee, the Proposer must file a statement with the Broward County Supervisor of Elections pursuant to §112.313, Florida Statutes.

4. Drug Free Workplace

The selected firm(s) will be required to verify they will operate a "Drug Free Workplace" as set forth in Florida Statute, 287.087.

5. Public Entity Crimes

A person or affiliate who has been placed on the convicted vendor list following a conviction for public entity crime may not submit a proposal on a contract to provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute, Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

6. Patent Fees, Royalties, And Licenses

If the selected Proposer requires or desires to use any design, trademark, device, material or process covered by letters of patent or copyright, the selected Proposer and his surety shall indemnify and hold harmless the City from any and all claims for infringement by reason of the use of any such patented design, device, trademark, copyright, material or process in connection with the work agreed to be performed and shall indemnify the City from any cost, expense, royalty or damage which the City may be obligated to pay by reason of any infringement at any time during or after completion of the work.

7. Permits

The selected Proposer shall be responsible for obtaining all permits, licenses, certifications, etc., required by federal, state, county, and municipal laws, regulations, codes, and ordinances for the performance of the work required in these specifications and to conform to the requirements of said legislation.

8. Familiarity With Laws

It is assumed the selected firm(s) will be familiar with all federal, state and local laws, ordinances, rules and regulations that may affect its services pursuant to this Solicitation. Ignorance on the part of the firm will in no way relieve the firm from responsibility.

9. Withdrawal Of Proposals

A firm may withdraw its proposal without prejudice no later than the advertised deadline for submission of proposals by written communication to the General Services Department, 1190 N.E. 3<sup>rd</sup> Avenue, Building C, Pompano Beach, Florida 33060.

10. Composition Of Project Team

Firms are required to commit that the principals and personnel named in the proposal will perform the services throughout the contractual term unless otherwise provided for by way of a negotiated contract or written amendment to same executed by both parties. No diversion or substitution of principals or personnel will be allowed unless a written request that sets forth the qualifications and experience of the proposed replacement(s) is submitted to and approved by the City in writing.

11. Invoicing/Payment

All invoices should be sent to City of Pompano Beach, Accounts Payable, P.O. Drawer 1300, Pompano Beach, Florida, 33061. In accordance with Florida Statutes, Chapter 218, payment will be made within 45 days after receipt of a proper invoice.

12. Public Records

- a. The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law, as amended. Specifically, the Contractor shall:
  - i. Keep and maintain public records required by the City in order to perform the service;
  - ii. Upon request from the City's custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law;
  - iii. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Contractor does not transfer the records to the City; and

- iv. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Contractor, or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.
- b. Failure of the Contractor to provide the above described public records to the City within a reasonable time may subject Contractor to penalties under 119.10, Florida Statutes, as amended.

## **PUBLIC RECORDS CUSTODIAN**

**IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:**

**CITY CLERK  
100 W. Atlantic Blvd., Suite 253  
Pompano Beach, Florida 33060  
(954) 786-4611  
[RecordsCustodian@copbfl.com](mailto:RecordsCustodian@copbfl.com)**

### **W. Questions and Communication**

All questions regarding the Solicitation are to be submitted using the Questions feature in the eBid System. Questions must be received at least seven (7) calendar days before the scheduled solicitation opening. Oral and other interpretations or clarifications will be without legal effect. Addenda will be posted to the solicitation in the eBid System, and it is the Proposer's responsibility to obtain all addenda before submitting a response to the solicitation.

### **X. Addenda**

The issuance of a written addendum or posting of an answer in response to a question submitted using the Questions feature in the eBid System are the only official methods whereby interpretation, clarification, or additional information can be given. If any addenda are issued to this solicitation the addendum will be issued via the eBid System. It shall be the responsibility of each Proposer, prior to submitting their response, to contact the City Purchasing Office at (954) 786-4098 to determine if addenda were issued and to make

such addenda a part of their proposal. Addenda will be posted to the solicitation in the eBid System.

Y. **Contractor Performance Report**

The City will utilize the Contractor Performance Report to monitor and record the successful proposer's performance for the work specified by the contract. The Contractor Performance Report has been included as an exhibit to this solicitation.

**COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRETY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.**

***PROPOSER INFORMATION PAGE***

\_\_\_\_\_, \_\_\_\_\_  
(number) (Title)

To: The City of Pompano Beach, Florida

The below named company hereby agrees to furnish the proposed services under the terms stated subject to all instructions, terms, conditions, specifications, addenda, legal advertisement, and conditions contained in the solicitation. I have read the solicitation and all attachments, including the specifications, and fully understand what is required. By submitting this proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this proposal.

Proposal submitted by:

Name (printed) \_\_\_\_\_ Title \_\_\_\_\_

Company (Legal Registered) \_\_\_\_\_

Federal Tax Identification Number \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

Email Address \_\_\_\_\_

**COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRETY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.**

**PROJECT TEAM**

SOLICITATION NUMBER \_\_\_\_\_

Federal I.D.# \_\_\_\_\_

**PRIME**

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	_____	_____	_____
Project Manager	_____	_____	_____
Asst. Project Manager	_____	_____	_____
Other Key Member	_____	_____	_____
Other Key Member	_____	_____	_____

**SUB-CONSULTANT**

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying	_____	_____
Landscaping	_____	_____
Engineering	_____	_____
Other Key Member	_____	_____
Other Key Member	_____	_____
Other Key Member	_____	_____

(use attachments if necessary)

**COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRETY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.**

**VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS**

Respondent Vendor Name: \_\_\_\_\_

Vendor FEIN: \_\_\_\_\_

Section 287.135, Florida Statutes, prohibits agencies from contracting with companies, for goods or services over \$1,000,000, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. Further, Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to sign electronically on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs.

I Certify



### Exhibit – Contractor Performance Report

CATEGORY	RATING	COMMENTS
<b>1. Quality Assurance/Quality Control</b> - Product/Services of high quality - Proper oversight - Communication	Poor =1 Satisfactory =2 Excellent =3	
<b>2. Record Keeping</b> -Accurate record keeping -Proper invoicing -Testing results complete	Poor =1 Satisfactory =2 Excellent =3	
<b>3. Close-Out Activities</b> - Restoration/Cleanup - Deliverables met - Punch list items addressed	Poor =1 Satisfactory =2 Excellent =3	
<b>4. Customer Service</b> - City Personnel and Residents - Response time - Communication	Poor =1 Satisfactory =2 Excellent =3	
<b>5. Cost Control</b> - Monitoring subcontractors - Change-orders - Meeting budget	Poor =1 Satisfactory =2 Excellent =3	
<b>6. Construction Schedule</b> - Adherence to schedule - Time-extensions - Efficient use of resources	Poor =1 Satisfactory =2 Excellent =3	
<b>SCORE</b>	_____	<b>ADD ABOVE RATINGS/DIVIDE TOTAL BY NUMBER OF CATEGORIES BEING RATED</b>

#### **RATINGS**

**Poor Performance (1.0 – 1.59):** Marginally responsive, effective and/or efficient; delays require significant adjustments to programs; key employees marginally capable; customers somewhat satisfied.

**Satisfactory Performance (1.6 – 2.59):** Generally responsive, effective and/or efficient; delays are excusable and/or results in minor program adjustments; employees are capable and satisfactorily providing service without intervention; customers indicate satisfaction.

**Excellent Performance (2.6 – 3.0):** Immediately responsive; highly efficient and/or effective; no delays; key employees are experts and require minimal direction; customers expectations are exceeded.



## City of Pompano Beach Florida

### Local Business Subcontractor Utilization Report

Project Name <sup>(1)</sup>		Contract Number and Work Order Number (if applicable) <sup>(2)</sup>	
Report Number <sup>(3)</sup>	Reporting Period <sup>(4)</sup> to	Local Business Contract Goal <sup>(5)</sup>	Estimated Contract Completion Date <sup>(6)</sup>
Contractor Name <sup>(7)</sup>		Contractor Telephone Number <sup>(8)</sup> ( ) -	Contractor Email Address <sup>(9)</sup>
Contractor Street Address <sup>(10)</sup>	Project Manager Name <sup>(11)</sup>	Project Manager Telephone Number <sup>(12)</sup> ( ) -	Project Manager Email Address <sup>(13)</sup>

<b>Local Business Payment Report</b>						
Federal Identification Number <sup>(14)</sup>	Local Subcontractor Business Name <sup>(15)</sup>	Description of Work <sup>(16)</sup>	Project Amount <sup>(17)</sup>	Amount Paid this Reporting Period <sup>(18)</sup>	Invoice Number <sup>(19)</sup>	Total Paid to Date <sup>(20)</sup>
<b>Total Paid to Date for All Local Business Subcontractors <sup>(21)</sup> \$</b>						<b>0.00</b>

**I certify that the above information is true to the best of my knowledge.**

Contractor Name – Authorized Personnel (print) <sup>(22)</sup>	Contractor Name – Authorized Personnel (sign) <sup>(23)</sup>	Title <sup>(24)</sup>	Date <sup>(25)</sup>
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**Local Business Subcontractor Utilization Report Instructions**

- Box (1) Project Name** – Enter the entire name of the project.
- Box (2) Contract Number (work order)** – Enter the contract number and the work order number, if applicable (i.e., 4600001234, and if work order contract include work order number – 4600000568 WO 01).
- Box (3) Report Number** - Enter the Local Business Subcontractor Utilization Report number. Reports must be in a numerical series (i.e., 1, 2, 3).
- Box (4) Reporting Period** - Enter the beginning and end dates this report covers (i.e., 10/01/2016 – 11/01/2016).
- Box (5) Local Contract Goal** - Enter the Local Contract Goal percentage on entire contract.
- Box (6) Contract Completion Date** - Enter the expiration date of the contract, (not work the order).
- Box (7) Contractor Name** - Enter the complete legal business name of the Prime Contractor.
- Box (8) Contractor Telephone Number** - Enter the telephone number of the Prime Contractor.
- Box (9) Contractor Email Address** - Enter the email address of the Prime Contractor.
- Box (10) Contractor Street Address** – Enter the mailing address of the Prime Contractor.
- Box (11) Project Manager Name** - Enter the name of the Project Manager for the Prime Contractor on the project.
- Box (12) Project Manager Telephone Number** – Enter the direct telephone number of the Prime Contractor's Project Manager.
- Box (13) Project Manager Email Address** – Enter the email address of the Prime Contractor's Project Manager.
- Box (14) Federal Identification Number** – Enter the federal identification number of the Local Subcontractor(s).
- Box (15) Local Subcontractor Business Name** – Enter the complete legal business name of the Local Subcontractor(s).
- Box (16) Description of Work** – Enter the type of work being performed by the Local Subcontractor(s) (i.e., electrical services).
- Box (17) Project Amount** – Enter the dollar amount allocated to the Local Subcontractor(s) for the entire project (i.e., amount in the subcontract agreement).

- Box (18) Amount Paid this Reporting Period** – Enter the total amount paid to the Local Subcontractor(s) during the reporting period.
- Box (19) Invoice Number** – Enter the Local Subcontractor's invoice number related to the payment reported this period.
- Box (20) Total Paid to Date** – Enter the total amount paid to the Local Subcontractor(s) to date.
- Box (21) Total Paid to Date for All Local Subcontractor(s)** – Enter the total dollar amount paid to date to all Local Subcontractors listed on the report.
- Box (22) Contractor Name Authorized Personnel (print)** – Print the name of the employee that is authorized to execute the Local Subcontractor Utilization Report.
- Box (23) Contractor Name Authorized Personnel (sign)** – Signature of authorized employee to execute the Local Subcontractor Utilization Report.
- Box (24) Title** – Enter the title of authorized employee completing the Local Subcontractor Utilization Report.
- Box (25) Date** – Enter the date of submission of the Local Subcontractor Utilization Report to the City.





LOCAL BUSINESS EXHIBIT "C"  
LOCAL BUSINESS UNAVAILABILITY FORM

Solicitation # \_\_\_\_\_

I, \_\_\_\_\_  
(Name and Title)

of \_\_\_\_\_, certify that on the \_\_\_\_\_ day of

\_\_\_\_\_, \_\_\_\_\_, I invited the following LOCAL BUSINESS(es) to bid work  
(Month) (Year)

items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Said Local Businesses:

- \_\_\_ Did not bid in response to the invitation
- \_\_\_ Submitted a bid which was not the low responsible bid
- \_\_\_ Other: \_\_\_\_\_

Name and Title: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Attach additional documents as available.

LOCAL BUSINESS EXHIBIT "C"

LOCAL BUSINESS EXHIBIT "D"  
GOOD FAITH EFFORT REPORT LOCAL BUSINESS PARTICIPATION

Solicitation # \_\_\_\_\_

1. What portions of the contract have you identified as Local Business opportunities?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Did you send written notices to Local Businesses?

\_\_\_\_ Yes      \_\_\_\_ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

\_\_\_\_ Yes      \_\_\_\_ No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

\_\_\_\_\_  
\_\_\_\_\_

7. List the Local Businesses you will utilize and subcontract amount.

_____	\$ _____
_____	\$ _____
_____	\$ _____

8. Other comments: \_\_\_\_\_

\_\_\_\_\_

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LOCAL BUSINESS EXHIBIT "D"

# Online Questions & Answers

## Event Information

Number: E-22-20  
 Title: Continuing Contracts for Professional Environmental Testing Services  
 Type: Request for Letters of Interest  
 Issue Date: 7/9/2020  
 Question Deadline: 8/3/2020 05:00 PM (ET)  
 Response Deadline: 8/24/2020 02:00 PM (ET)  
 Notes: Pursuant to Florida Statutes Chapter 287.055 "Consultants' Competitive Negotiation Act" the City of Pompano Beach invites professional firms to submit qualifications and experience for consideration to provide professional environmental testing services to the City on a continuing as-needed basis.

The City will receive sealed proposals until **2:00 p.m. (local), August 10, 2020.** Proposals must be submitted electronically through the eBid System on or before the due date/time stated above. Any proposal received after the due date and time specified, will not be considered. Any uncertainty regarding the time a proposal is received will be resolved against the Proposer.

Proposer must be registered on the City's eBid System in order to view the solicitation documents and respond to this solicitation. The complete solicitation document can be downloaded for free from the eBid System as a pdf at: <https://pompanobeachfl.ionwave.net>. The City is not responsible for the accuracy or completeness of any documentation the Proposer receives from any source other than from the eBid System. Proposer is solely responsible for downloading all required documents. A list of proposers will be read aloud in a public forum.

## Published Questions

<b>Question</b>	Is a firm allowed to submit as both prime and on another team (in which another firm is submitting as prime)?
<b>Answer</b>	Firms may submit specialty subconsultants on the project team form. During the preparation of a Task Order, the City may choose to use a professional firm with an active City contract to perform subconsultant work, proposed by the prime firm.
<b>Asked</b>	8/3/2020 11:24 AM (ET)

<b>Question</b>	How many references does the prime firm need to provide? Can the prime use reference from our subcontractors.
<b>Answer</b>	Two to three (maximum) references will be sufficient. A firm may NOT use the references of their subcontractors.
<b>Asked</b>	7/28/2020 03:28 PM (ET)

<b>Question</b>	Section Y – Contractor Performance Report. If Contractor Performance Report is to be submitted with the proposal, is it to be used in the reference section. If so how many references do we need. Please confirm this form is to be used once the contract is awarded and is only provided as an exhibit for informational purposes.
<b>Answer</b>	Do not include the contractor performance report in your proposal. This informational exhibit's inclusion in the solicitation is the City's notice to the would-be selected firms that their performance will be tracked.
<b>Asked</b>	7/28/2020 03:23 PM (ET)
<b>Question</b>	Surveying and Landscaping is not listed in the Scope of Services; however, they are listed on the Project Team form. If Landscaping is required, are you referring to Landscape Architecture services?
<b>Answer</b>	This RLI is requesting information on Professional Environmental testing. Please note the City is advertising individual RLI's for Professional Civil Engineering, CEI, Landscape Architectural Services, and Professional Surveying.
<b>Asked</b>	7/27/2020 03:15 PM (ET)
<b>Question</b>	On the Local Business Exhibit "B", Local Business Letter of Intent to Perform as a Local Subcontractor, it asks for a price amount. Since the projects and scopes of work to be assigned are not known at this time, can we state "To Be Determined" (TBD) on the form?
<b>Answer</b>	Yes.
<b>Asked</b>	7/16/2020 02:48 PM (ET)
<b>Question</b>	Does the Local Business Subcontractor Utilization Report have to be included with the RFP Response or will this report be utilized once the contract is awarded?
<b>Answer</b>	Do not include the local business subcontractor utilization report in your proposal. Its inclusion in the solicitation is the City's notice to the would-be selected firms that their local business commitments will be tracked.
<b>Asked</b>	7/16/2020 02:46 PM (ET)
<b>Question</b>	Section Y – Contractor Performance Report. Please confirm this form is to be used once the contract is awarded and is only provided as an exhibit for informational purposes.
<b>Answer</b>	Do not include the contractor performance report in your proposal. This informational exhibit's inclusion in the solicitation is the City's notice to the would-be selected firms that their performance will be tracked.
<b>Asked</b>	7/16/2020 11:10 AM (ET)

<b>Question</b>	Section G – Selection/Evaluation Process. The RFP states Current and Projected Workload is listed as one of the Selection Criteria; however, there is not a designated section for the current workload. Please indicate where this should be discussed in, level of detail and describe how this will be evaluated.
<b>Answer</b>	Incorporate this information at your descension. The evaluation is discussed in Section G, Item #4.
<b>Asked</b>	7/16/2020 11:09 AM (ET)
<b>Question</b>	Section E – Required Proposal Submittal – References. The RFP state that the propose list any prior projects performed for the City of Pompano Beach. What is the timeframe for the list of projects, what detail needs to be provided (i.e., name of project, completion year, cost, etc.). Is this being used to show current workload with the City? Please clarify.
<b>Answer</b>	Please limit the list to projects completed in the past 5 years. Project detail should be provided for each project performed in the City of Pompano Beach. Current projects which have not been completed should be included in the current project workload (Section G).
<b>Asked</b>	7/16/2020 11:09 AM (ET)
<b>Question</b>	Section E – Required Proposal Submittal – References. The RFP does not state the specific number of references that are required. Please clarify.
<b>Answer</b>	Two to three (maximum) references will be sufficient.
<b>Asked</b>	7/16/2020 11:09 AM (ET)
<b>Question</b>	Section E – Required Proposal Submittal – Schedule. For the Schedule section, the RFP requests the proposer shall provide a timeline that highlights proposed tasks that will meet all applicable deadlines. Each scope of work / types of projects would entail unique, project specific tasks; therefore, please elaborate on what type(s) of timelines you are referring to. Would this be one generic timeline?
<b>Answer</b>	Firms awarded a contract will be required to provide a detailed schedule during the issuance of a task order. For the RLI, please provide a technical approach on how your firm proposes to maintain a schedule on a task order.
<b>Asked</b>	7/16/2020 11:08 AM (ET)
<b>Question</b>	Project Team Form. On the Project Team form, there are only two blank lines for “Other Key Member” under PRIME section and only three blank lines under SUB-CONSULTANT section. Please clarify that the proposer can add additional “Other Key Member” lines to the form for both the PRIME and SUB-CONSULTANT?
<b>Answer</b>	Firms may submit specialty subconsultants on the project team form. During the preparation of a Task Order, the City may choose to use a professional firm with an active City contract to perform subconsultant work, proposed by the prime firm.
<b>Asked</b>	7/16/2020 11:08 AM (ET)

<b>Question</b>	Please clarify if the City is requesting us to describe our firm's environmental engineering services related to the types of projects or is the City looking for experience performing the actual services listed under Introduction (i.e. environmental engineering services related to parks and recreational facilities or actual design and/or construction of parks and recreational facilities)?
<b>Answer</b>	This RLI is requesting information on Professional Environmental testing. Please note the City is advertising individual RLI's for Professional Civil Engineering, CEI, Landscape Architectural Services, and Professional Surveying. Construction is not part of this RLI.
<b>Asked</b>	7/16/2020 11:08 AM (ET)

<b>Question</b>	Scope of Services. Under "Scope of Services", the RFP states "The scope of services may include, but is not limited to, the following:" •Prepare preliminary reports and/or alternative recommendations. This may include various types of research, modeling, testing and field data analysis. •Prepare all required permit applications and submittal packages as required for permit issuance of all agency permits (i.e. Federal, State, County and City) •Provide project management services for projects, including turbidity monitoring. •Prepare recommendations and cost estimates for compliance with regulatory requirements. •Provide project close-out services. This may include preliminary and final acceptance of projects, preparation and approval of punch list items and project certification as required to all permitting agencies. •Prepare reports for regulatory compliance monitoring and assessments. •Reporting on endangered animals (turtles and owls)
<b>Answer</b>	The RLI contains a list of services where the City may require professional environmental testing.
<b>Asked</b>	7/16/2020 11:08 AM (ET)

<b>Question</b>	Introduction: The RFP says, "The types of projects to be undertaken may include, but are not limited to: • The City's approved Capital Improvement Plan (CIP) maybe found here: Adopted Capital Improvement Plan FY 2020-2024 • Preparation of Phase I, Phase II, and Phase III assessments • Roadway, Streetscape or Parking Lot projects. • Water or Reuse Main projects. • Gravity Sewer Main projects. • Force Main projects. • Lift station/pump station rehabilitation projects. • Parks and Recreational Facilities. • Seawall and dock construction and repair. • Storm Water/Drainage Improvement projects • Consultation for Emergency Water/Wastewater/Stormwater Repairs. • Inspection Services for Emergency Water/Wastewater/ Stormwater Repairs. • Canal and lake dredging. • Grant reimbursement, FAA and FDOT support and compliance. • SRF support and Davis Bacon Wage Reporting requirements • Support Services for Remediation • Demolition Projects
<b>Answer</b>	The RLI contains a list of project types where the City may require professional environmental testing.
<b>Asked</b>	7/16/2020 11:06 AM (ET)

<b>Question</b>	Can you please list who the incumbent firms for this contract are?
<b>Answer</b>	GFA International, Inc., Professional Service Inc., E Sciences, Inc.
<b>Asked</b>	7/14/2020 11:43 AM (ET)

<b>Question</b>	Who will be on the selection committee?
<b>Answer</b>	Qualified City staff to be determined.
<b>Asked</b>	7/14/2020 08:42 AM (ET)

<b>Question</b>	What are amount of awards per consultant under the previous contract?
<b>Answer</b>	GFA \$24,000.00 E Sciences \$297,872.54 Professional Services \$31,290 The City reserves the right to award contracts in its best interest. Past business is no indication of future contract awards.
<b>Asked</b>	7/14/2020 08:41 AM (ET)

<b>Question</b>	Is a certificate of Insurance Required with the proposal submittal and if so should it be uploaded under the Attachments tab within the Ebid System or a separate tab within the proposal response?
<b>Answer</b>	The certificate of insurance will be required for each SELECTED firm prior to contract negotiation.
<b>Asked</b>	7/14/2020 08:41 AM (ET)

<b>Question</b>	1. Who are the incumbent firms for this contract? 2. Besides the Transmittal Page, are there any other page limits on the RFP response? 3. Is there a contract funding limit?
<b>Answer</b>	1. GFA International, Inc., Professional Service Inc., E Sciences, Inc. 2. There is a 250MB limit for each attachment uploaded, but no limit on the number of attachments. 3. The RLI under "Scope of Services" discusses limits/restrictions. The City's approved Capital Improvement Plan as referenced in the RLI contains estimates of projects to be funded over the next 5 years.
<b>Asked</b>	7/10/2020 11:37 AM (ET)

<b>Question</b>	What City entity is this contract with (CRA, Engineering, etc.)?
<b>Answer</b>	Awarded City contracts will be available for use by any applicable department.
<b>Asked</b>	7/9/2020 03:47 PM (ET)

Title Page



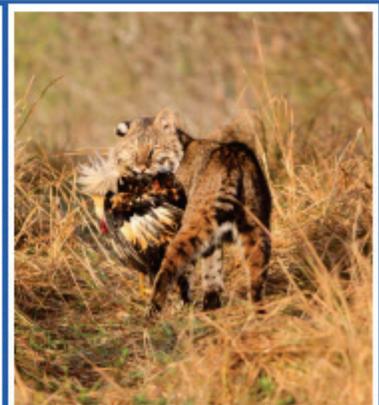
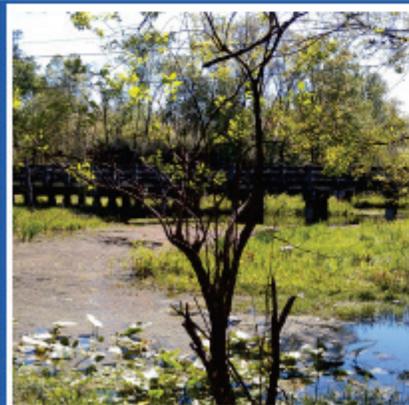
**City of Pompano Beach  
Continuing Contract for  
Professional Environmental Testing**

**Request for Letters of Interest E-22-20**

**Monday, August 24, 2020  
2:00 p.m. EST**



**Submitted to:  
Pompano Beach Purchasing Office  
1190 N.E. 3rd Avenue, Building C (Front)  
Pompano Beach, Florida 33060**



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## Letter of Transmittal

August 24, 2020

City of Pompano Beach  
Purchasing Office  
1190 NE 3<sup>rd</sup> Avenue, Building C  
Pompano Beach, Florida 33060

Re: Continuing Contract for Professional Environmental Testing  
Request for Letters of Interest (RLI) E-22-20

**E Sciences, Incorporated (E Sciences)** is pleased to submit this proposal to provide environmental testing, engineering and consulting services under the City of Pompano Beach E-22-20 contract. E Sciences specifically understands the work involved and we have the availability, capacity and dedicated resources to support the City as it continues to undertake the challenges of managing environmental risks and resources.

We have selected **Nadia G. Locke, PE, LEED AP** to be our project manager for this contract. Ms. Locke has more than 30 years of environmental engineering experience in Southeast Florida. She has been working within the City since we were awarded our first project under our continuing services contract with the Community Redevelopment Agency (CRA) nearly ten years ago. Since then, we were also awarded a contract with the City. She has managed both contracts, with the CRA and the City. She has worked for many other municipal clients including the Cities of Fort Lauderdale, Deerfield Beach, Miami Beach, Homestead, Oakland Park, West Palm Beach, Lauderdale Lakes and North Miami Beach. Ms. Locke is based in E Sciences' Fort Lauderdale office:

**Nadia G. Locke, PE, LEED AP**  
**Associate**

E Sciences, Incorporated  
224 SE 24<sup>th</sup> Street, Fort Lauderdale, Florida 33316  
Tel. (954) 484-8500 Fax. (954) 484-5146 Cell. (954) 937-9678  
Email. [nlocke@esciencesinc.com](mailto:nlocke@esciencesinc.com)  
Federal Tax Identification Number 59-3667002

Please consider the following key benefits offered by E Sciences:

### **Understanding of the City**

E Sciences has a proven track record of partnering with the City, the CRA and your consultants to meet your environmental consulting needs. We have worked within your neighborhoods, along your roadways and on City/CRA owned properties.

### **Local Firm**

This contract will be executed from our Fort Lauderdale office, which is located approximately 15 minutes from the Pompano Beach City Hall. This proximity will facilitate close communication and coordination with City staff. We have demonstrated that we are available for unanticipated meetings or emergency situations.

### **History of Delivering Projects on Time and Under Budget**

E Sciences has a reputation for delivering projects on time and under budget. E Sciences has consistently met our deadlines on all of our City and CRA projects. We have often delivered projects early, when needed, to meet the City goals. We have demonstrated our ability and commitment to mobilize and meet critical time schedules when needed. An example is our ability and commitment is our completion of assessment and remediation of the Sabal Golf Course within six months. On occasion we have been given a contractual time frame initially contemplated during the preparation of a task order but expedited our services to deliver prior to our required deadlines to meet the City's needs. Also, we have never exceeded a project budget. In totality, we have been under budget by \$51,966 for our closed projects under this contract. This equates to just over 6% return of our contract amount back to you to fund other projects.

### **Small Business with Big Resources**

E Sciences is recognized as a small business entity pursuant to federal and state guidelines and can assist the City with meeting its small business procurement goals. Nonetheless, we have a client and project resume that mirrors many larger firms because we provide the technical expertise and resources necessary to assist our clients in managing multi-faceted environmental and community issues. Our smaller size and innovative corporate culture provide a unique flexibility, agility, and creativity when addressing complex problems.

### **Funding Assistance**

E Sciences understands the importance of the need to seek outside funding for projects. Whether it is assisting the City with preparing grant proposals or preparing the environmental documents to demonstrate grant compliance, we have the expertise and experience to help. We have a track record of successful grant proposals for Brownfields, urban forestry, water quality improvement and wastewater. E Sciences has been successful in obtaining over \$30 million in grants for our clients.

### **Local Leadership/Commitment to Community**

Our Fort Lauderdale staff holds prominent leadership positions in the larger community, including Chair of the Broward County Bicycling and Pedestrian Advisory Committee and appointments to the City of Fort Lauderdale Community Advisory Board, the Hollywood Marine Advisory Council and the Broward County Brownfields Redevelopment Task Force. E Sciences' staff regularly participates in community outreach efforts at organizations such as the Pompano Beach Broward Outreach Center for the Miami Rescue Mission and the Broward Cooperative Feeding Program.

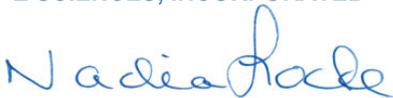
### **Environmental Focus**

E Sciences' staff is dedicated to the profession of engineering and science as it relates to environmental projects. We are experts in bridging the gap between environmental consulting, planning, construction, community interests and balanced funding.

We view this contract as an opportunity to continue our existing working relationship with Pompano Beach and look forward to providing quality environmental services to the City. Thank you for consideration of our proposal.

Sincerely,

**E SCIENCES, INCORPORATED**



Nadia G. Locke, PE, LEED AP  
Project Manager



Peter K. Partlow, PE  
President

## Technical Approach

E Sciences' approach to completing the services under this contract will include providing strong leadership, experienced program management, solid team organization and excellent communication. We will partner with the City and work as an extension of your staff. We have committed the resources of a highly qualified team of professional environmental scientists, geologists, engineers, and ecologists to service each of the scope tasks. We understand the project scope and are ready to assist the City in the successful management of growth. Our technical approach to the tasks described in the scope of services in the RLI are outlined below:

### **Prepare preliminary reports and/or alternative recommendations, including various types of research, modeling, testing and field data analysis:**

The success of our clients is of paramount importance to us. We understand that overcoming the challenges that environmental conditions can present needs to be our primary focus on municipal continuing services contracts such as this one. Each of our staff in Fort Lauderdale averages more than 13 years' experience. This experience brings our clients the benefit of our ability to anticipate the data that will be needed to obtain a sound basis of information to analyze and to present recommendations during the scope development stage. This means that our experience gives us the foresight to develop a scope that will meet the client's project objectives. We are well-versed in the industry standard practices, but we also keep abreast of emerging technical trends, regulatory changes, agency policy shifts and evolving ways of managing, as well as using and disseminating data. Nearly all of our senior staff present on these emerging topics in their respective industries at state and national conferences.

When we scope a project, we discuss the project objectives with the client and then consult our internal team of professionals. Our internal team meets to discuss the project objectives and determine what information we will need, how to obtain that information in an efficient and defensible manner and how to achieve the project goals. Two senior people ensure that the project is properly scoped: the project manager and a second seasoned expert who will provide quality assurance reviews for the project. As the project is underway, this team of two, plus more junior staff professionals who are collecting data, modeling, etc. consult at critical points. One of the first critical points is before field data collection to ensure that the staff understands the objectives of the project and how that data will be used. This helps staff to efficiently collect all of the data needed, it empowers them to make minor field decisions and informs them of when it is critical to get senior staff involved (e.g. if they identify unanticipated field conditions that could affect the data collection or project outcome). This has been a successful approach in obtaining thorough, accurate and relevant information that is used as a basis for our analysis and conclusions.

Another critical communication point is during review of the information collected. A prompt review of field notes and laboratory reports allows us to quickly identify any deviations that may need to be accounted for or managed. After data is reviewed by a senior professional and determined to meet the data quality objectives, the data can be modeled analyzed and evaluated. It is at this point alternative recommendations are made and communicated to the client. Traditionally, we have offered to have face to face meetings, but the pandemic has proven that virtual meetings can be just as effective and allow us to be more efficient. Through Microsoft Teams and other platforms, we share screens and effectively present preliminary findings and alternatives. This provides us the opportunity to tailor our final analysis, conclusions, and recommendations to the client's needs. Often, we provide our findings and alternative recommendations in a preliminary written report or presentation to our client with follow up consultations prior to finalizing our deliverables.

An example project where this approach was used was the Sabal Golf Course remediation project. Another consultant collected contamination assessment data and developed a preliminary plan for removing contaminated soils. E Sciences was subsequently engaged by the City in to complete the project. We assessed the information provided

and met with the City and Broward County. It quickly became apparent that the data collected did not meet the project objectives as the contamination at the proposed soil excavation areas was not delineated. Excavating those areas and collecting confirmation sidewall samples, would likely result in the finding contamination on the sidewalls. This would cause the City to keep assessing the Site and excavating in an iterative manner. We notified the City and met with Broward County and presented the City's alternative options. The City elected to have us delineate the impacted areas in advance so that the project could be bid and that contractor change orders would be avoided. The work needed to be completed quickly, so constant communication between our field staff, project manager and senior staff was of paramount importance to collect all of the data necessary to define the impacted areas in a timely manner to meet the excavation timeline requirements. Decision points for the City included determining when data was sufficient to bid the project within the time constraints, and which regulatory closure strategy would best meet the project goals. This involved multiple communications with City legal counsel and Broward County.

**Prepare all required permit applications and submittal packages as required for permit issuance of all agency permits (i.e. Federal, State, County and City)**

E Sciences' staff has prepared hundreds of permit application packages. We have conducted many environmental permitting projects for neighborhood improvement projects, bridgework, utilities, seawall rehabilitation, dredging, and property redevelopment. Our staff is experienced in data collection, wetland delineation, listed species surveys, mitigation assessments, seagrass mapping and monitoring, design drawings, stormwater modeling, drainage calculations, and conceptual plans.

We are well known by the permitting agencies and regularly facilitate agency meetings, such as pre-application meetings. In fact, we facilitate Florida Department of Transportation (FDOT) District Four's monthly interagency meetings with the South Florida Water Management District (SFWMD). Some of our staff are former agency permit reviewers.

Quality and communication form the basis of our technical approach to permitting. Once the team has a project concept and we have conducted our environmental surveys, we meet with the engineers to inform them of the environmental conditions and we collaborate in ways to balance the engineering and environmental challenges to obtain the best permissible design. At that point, we facilitate a meeting with the regulatory agency staff and our engineer/ecologist team. We present the project to the agency in a cohesive manner demonstrating how we have developed an optimal project that will be permissible. This upfront coordination with the agencies has proven to be invaluable. Their perspective can be taken into account as the design and permitting process continues to minimize the agency concerns and expedite the permitting process. Our permitting staff has an excellent reputation with the agencies. The SFWMD and U.S. Army Corps of Engineers (USACE) often contact us in advance of issuing requests for additional information to provide us with the opportunity to resolve any issues prior to them issuing a letter.

An example of our recognized permitting expertise is our project with the Florida Department of Environmental Protection (FDEP) to perform permitting oversight in support of the development of the Florida Keys Overseas Heritage Trail, a 106-mile recreational paved trail leading from Key Largo to Key West, utilizing 23 of the historic Flagler Railroad Bridges. This project involved numerous segments designed by different engineering firms. E Sciences' role was to develop a Permit Plan to provide guidance to all of the various entities to streamline and unify the permitting process. Specific duties on this project included researching and cataloguing records of threatened and endangered species and wetlands along the Trail alignment, coordinating design and permitting activities for multiple engineering firms designing segments of the Trail, creating a guidance plan for the environmental permitting and development of the Trail, website development and Class of Action Determination documentation.

Another example of our substantial permitting experience is the permitting of wetland mitigation banks for thousands of acres of wetland mitigation in Florida, Texas and Louisiana. Please note the commendation that we received from the Army Corps of Engineers regarding one of these projects.

**Provide project management services for projects:**

The following paragraphs highlight our approach, concepts, and quality control procedures that have proven to be successful on this contract and will continue to be the basis for of our project management approach.

**Contract Management:** E Sciences' management philosophy is based on listening to City staff and understanding the City's business and technical needs, budgetary constraints, staffing needs, and project deadlines. We will develop our project-specific scopes to satisfy these needs, combining experience with ingenuity to find the best solution for each situation. We consider efficiency of design, quality of work, and on-time performance essential components of our company. Our aim is to provide accurate information and sound solutions that satisfy the needs of the City, regulatory agencies and the public. E Sciences can mobilize teams to simultaneously complete multiple projects. We have successfully managed projects ranging from simple studies to large multi-disciplinary projects. The goal of our project management system is to provide quality service that is responsive to the client's needs, is on time, and is within budget. Our organizational structure enables the contract manager, Ms. Locke, to provide overall contract management; and to oversee project execution in a centralized manner. Based upon the nature of the project and workload, Ms. Locke will manage the project or Ms. Locke may assign Ms. Maria Paituvi, PE to be the project manager. These two licensed Professional Engineers have been working on projects for the City or CRA for ten years. This process has ensured that an integrated approach is used in executing individual task orders. Upon receipt of a request for a task order from the City, Ms. Locke will prepare a scope, fee estimate, and schedule. This is discussed with City staff and Ms. Locke will assist with getting the task order through the procurement process as appropriate. Once the authorization is received, Ms. Locke will assemble and mobilize the appropriate professional and technical team members for executing the work. The project manager will monitor the status of schedule, budget, technical quality and overall performance. Ms. Locke and Ms. Paituvi excel at proactively working to avoid or mitigate project problems before they adversely affect the performance of the assigned services.

*"I believe that the consensus is that this is the best monitoring report we have ever received...Personally, this is the first monitoring report that I have reviewed where I did not have several pages of comments requesting clarification and/or asking for information that was supposed to be provided."*

– Brenda Archer, Army Corps of Engineers

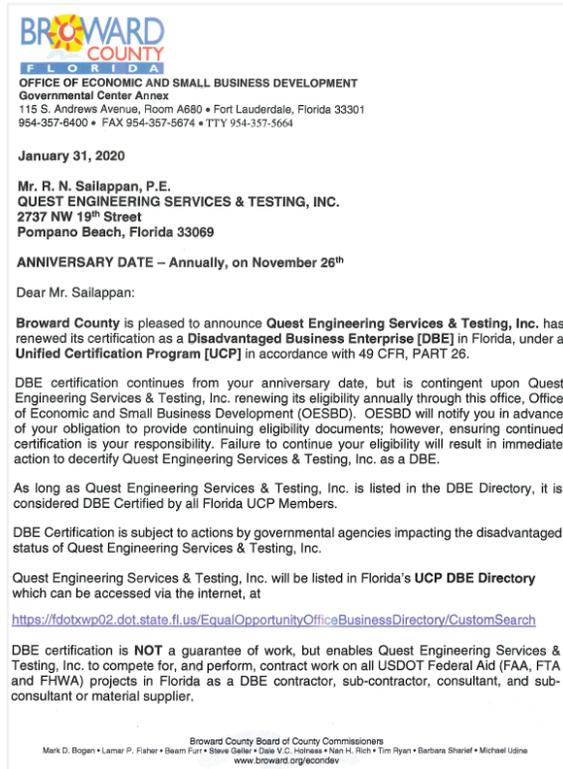
**Tier 2 Local Vendor Under Local Business Program:** E Sciences applauds the City's commitment to its local businesses. We have identified three local businesses as subcontractors so that we can help to further the City's Local Business Program. They are listed below:

- Pace Analytical Laboratories (PACE)
- Quest Engineering Services & Testing, Inc. (QuEST)
- Intercounty Engineering, Inc. (Intercounty)

Because the contract value has not been provided, we were unable to provide a fee estimate for each subcontractor, but we commit to providing these local companies a minimum of 20% of the contract value. Based upon our experience with the types of projects that we have provided to the City and CRA under this contract, we are confident that analytical services will provide opportunities for us to engage PACE and that QuEST will be able to provide geotechnical engineering services. To date, we have not had the opportunity to provide water and sewer support services under this contract, but since these services are outlined on Page 1 as potential "types of projects to be undertaken", Intercounty will assist with those as needed.

**Minority Business Enterprise (MBE) Participation Efforts:**  
 E Sciences has selected two minority enterprise firms to support this contract. (Certificates provided)

- **AirQuest Environmental, Inc.** is a certified MBE/Woman Owned Business Enterprise firm. They will provide asbestos, lead paint and air quality support services.
- **QuEST** is a certified Disadvantaged Business Enterprise (DBE). They will provide geotechnical engineering support services.



**Re: Quest Engineering Services & Testing, Inc.** January 31, 2020

If, at any time, there is a material change in Quest Engineering Services & Testing, Inc. including, but not limited to, ownership, officers, directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of Quest Engineering Services & Testing, Inc., you must notify OESBD, in writing, without delay. Notification should include supporting documentation. You will receive acknowledgement and confirmation of continued eligibility, if applicable after notification of changes.

Quest Engineering Services & Testing, Inc. may compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, receiving DBE credit for work performed in the following areas:

**NAICS CODE: 541330 Engineering Services**  
**NAICS CODE: 541380 Testing Laboratories**

Please feel free to contact OESBD for any questions or concerns pertaining to your DBE certification. Our telephone number is (954) 357-6400; our fax number is (954) 357-5674.

Sincerely,  
  
 Sandy-Michael McDonald, Director  
 Office of Economic and Small Business Development

**Quality Assurance/Quality Control (QA/QC):** E Sciences applies a Total Quality Management approach to its Quality Assurance Plan (QAP). We incorporate quality assurance into each facet of our services, from the first phone call to the final invoice. The ultimate purpose of our QAP is to provide the City with the confidence that services are performed according to the appropriate industry standards and that quality assurance is integral to every step of our process. E Sciences has achieved successful results on this contract as a result of our detailed, structured approach to controlling workflow. Our methodology describes the tools and approach we typically utilize to ensure that our services are completed on schedule and within budget.

While the concepts discussed above are procedural and mechanical, total quality and success can only be achieved by jointly committing to goals established by the City, regulatory or other agencies involved, and the E Sciences team. E Sciences is committed to the goal of partnering, and drawing on the strengths, skills, and knowledge of each team member to achieve a quality project that is completed right the first time, within budget and on schedule.

**Scheduling Methods:** We understand the importance of production schedules and delivery dates. To meet project deliverable dates that may have accelerated schedules we have automated our project scheduling process from the inception of the project. We utilize Microsoft Planner to develop internal structure and deadlines to coordinate with all staff. When the project scope has been approved by the City, Ms. Locke will initiate preparation of the necessary work plan, sampling plan, and health and safety plan as appropriate and set the project up in Microsoft Planner. The second tier of the project management process or project coordinator will assemble and mobilize the most appropriate professional and technical team members for execution of the work and will administer the day-to-day activities for the duration of the project. He or she will monitor and report the status of schedule, budget, technical quality, and overall performance for timely review by Ms. Locke. With an adaptive management philosophy, should unexpected issues arise, Ms. Locke will notify the City promptly and offer alternatives to mitigate schedule impacts.

Ms. Locke will continue to regularly communicate with City staff with project updates. The update may be communicated in a written report, if so requested, or may simply involve affirmation of the project schedule and tasks performed over the past week via electronic mail, if preferred. Periodically, E Sciences will provide a project status report. This will likely be provided with an invoice (if project is to be invoiced monthly) and other reports or documentation required by the task order or desired by the City's project manager.

On occasion we have been given a contractual time frame initially contemplated during the preparation of a task order but expedited our services to deliver prior to our required deadlines to meet our clients' needs. Even during this COVID-19 pandemic E Sciences continues to serve our clients without a hitch. We are adept at managing risks and complications avoiding impacts to our clients or their projects.

**Cost Control Methods:** E Sciences has a reputation for delivering projects on time and under budget. Our methods have been discussed in our project management approach. We put the time and care into scoping the projects so that we avoid unforeseen circumstances that could result in change orders. We only bill for the work completed and often complete our projects under budget. We have demonstrated this by delivering the following projects under budget:

- Old Pompano Area Improvements – National Environmental Policy Act (NEPA) Review
- Pompano Beach Airport Soil Sampling
- Proposed youth Sport Complex Sampling
- Palm Aire Lakes Water Quality Assessment
- 1213 East Atlantic Avenue Parcel Phase I Environmental Site Assessments (ESAs) and Asbestos Survey
- Denny's Phase I and Asbestos Survey
- Fire Station 52 Environmental Evaluation
- 550 Cypress Road Parcel Asbestos Survey
- Blanche Ely and Adjacent Parcels Study
- 8 Hammondville Parcels – Phase I and Phase II ESAs
- Broward County Health Center NEPA Review
- 21 South Federal Highway Phase I ESA
- 103 & 111 South Federal Highway Parcels Phase I ESA
- 119 South Federal Highway Phase II ESA

**This totals \$51,966 of under budget services on these projects.**

**Turbidity Monitoring:**

E Sciences has provided turbidity monitoring for a variety of projects. Our staff has conducted turbidity monitoring during construction and dredging in waterways. Our staff has developed numerous turbidity monitoring plans as well. Our approach to turbidity monitoring is to provide experienced staff and reliable equipment. We have two Lamotte Turbidity 2020E turbidity meters in our Fort Lauderdale Office that are available at a moment's notice and staff who are experienced using them. Our staff understands the importance of conducting calibration checks prior to and after each monitoring event, recording results in an accurate and clear manner and reporting the results immediately when non-compliant readings are obtained. We send our field staff to the FDEP's training on Standard Operating Procedures (SOPs) for Water Sampling and Meter Testing so that they are well versed in using the FDEP SOPs and ensure quality data is collected. Additionally, we have 11 FDEP Certified Erosion and Sediment Control Inspectors on staff in the Fort Lauderdale/Miami offices to assist with the successful completion of construction projects.

Notable turbidity monitoring projects include the dredging of the Boynton Inlet and we are currently developing a dredging plan and obtaining regulatory authorizations for the removal of sediment accumulation in the Tarpon River due to two sewer pipe breaks. We are also developing a turbidity monitoring plan for construction of the Parkview Island kayak launch in the City of Miami Beach.

**Prepare recommendations and cost estimates for compliance with regulatory requirements:**

E Sciences regularly provides recommendations and cost estimates for compliance with regulatory programs. To ensure that our recommendations meet client needs, we base them on the following:

- We collect sound and defensible data is used as a basis for making our conclusions. This approach results in our ability to develop solid and viable recommendations for our clients to consider.
- We apply our experience with other projects to develop practical and implementable solutions to project challenges.
- We collaborate with our clients at critical decision points during the project. This is a practice that we employ to ensure that our clients' goals and objectives are integrated into all aspects of project development.
- Preliminary opinions of probable costs are prepared to assist in the decision-making process. We research potential grant or funding opportunities so that the viability of funding opportunities can be part of the consideration in the decision-making process.
- We present our recommendations in a variety of ways that are specifically tailored to each client. We may schedule a meeting to present our recommendations and help vet them prior to submitting a written report or a draft report may be provided. We are flexible in this approach to ensure that our methods of communication are helpful, appropriate, and effective. We understand the importance of facilitating a helpful and responsible process for our clients to make decisions.

Once the decisions are made by the client, we refine our recommendations and develop opinions of probable costs. We understand how important these costs are for developing capital plans, budgets and schedules for project development. We use industry standards for developing costs from a variety of sources including FDOT, FDEP, construction industry literature and our own experience.

**Provide project close-out services. This may include preliminary and final acceptance of projects, preparation and approval of punch list items and project certification as required to all permitting agencies:**

Our engineers understand the importance of providing independent review of contractor work to ensure that project delivery meets the specifications and permit conditions. We have provided construction engineering and inspection services for multiple projects. The following are critical aspects of our approach to providing high quality project close-out services:

- Thorough understanding of the project documents and permit conditions allows our field staff to use a critical eye during construction to identify non-compliance items as the project progresses. Vigilant oversight creates the opportunity for minor adjustments as the project progresses and helps to avoid major reconstruction. This can cause schedule delays and can incentivize a contractor to pursue change orders.
- Using the same staff throughout the project when possible creates consistency and the ability to ensure that deficiency items are properly corrected on follow up inspections.
- Clear communication and good documentation will keep the project on track and reduce the opportunities for misunderstandings that can cause delays and change orders.
- Certifications are the final documents that show that the work was completed in compliance with the project documents and the permits. Our staff understands the importance of only certifying projects that meet this criterion and the quality control requirements of the project.

**Prepare reports for regulatory compliance monitoring and assessments:**

E Sciences is familiar with, and keeps abreast of, federal, state, county and municipal ordinances, laws, rules, codes and regulations. Our expertise in regulations and policies is integrated into our approach to preparing regulatory compliance and assessment reports. We learn from each project and adapt our reports accordingly. Therefore, our clients benefit from this experience. Each report undergoes our rigorous quality assurance process so that the reports are correct and accurate. When we identify issues with meeting regulatory compliance, we consult with the client and develop an approach to communicate in a proactive way with the regulators so that when reports are reviewed by the agencies, we have anticipated their response. We have an excellent track record in seeking regulatory closure with all environmental agencies including Broward County, the SFWMD, FDEP and USACE. The following highlights some of our project experience related to regulatory compliance:

- E Sciences is under contract with FDOT Districts One, Three, Four and Five to provide permitting and compliance services for National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) and generic construction permits.
- We conduct annual compliance monitoring and training for all of the tenants at PortMiami. We also conduct compliance monitoring and reporting of their outfalls to maintain regulatory compliance.
- We prepared numerous Spill Prevention Control and Countermeasure (SPCC) Plans and a training program for the City of Miami Beach for regulatory compliance.
- E Sciences was selected by Disney to conduct SPCC updates to all facilities within the Walt Disney World's Magic Kingdom.
- E Sciences conducted the storage tank closure assessment for the largest Underground Storage Tank (UST) system in the State of Florida for Broward County to follow the FDEP upgrade requirements.
- Our staff has performed stormwater compliance inspections for tenants at the Hollywood-Fort Lauderdale International Airport.

- E Sciences reviewed all aspects of environmental compliance for several Tarmac concrete batch and block plants. Regulated facilities include industrial wastewater management systems, stormwater management systems, water supply and mining operations.

A large portion of our business is related to assessment and remediation of contaminated properties. We have helped our clients assess, remediate and manage risks associated with contaminants of concern including chlorinated solvents, arsenic and lead, petroleum, pesticides, ammonia, and Polychlorinated Biphenyls (PCBs). The following highlights just a fraction of our project experience related to assessment and cleanup at government owned facilities:

- E Sciences completed the remediation at the Sabal Palm Golf Course for the City within six months of initiation, including working over the Thanksgiving and Christmas holidays to meet critical end of year deadlines.
- E Sciences is completing the regulatory closure following the assessment and remediation of the Marlins Park for the City of Miami.
- E Sciences completed assessment and remediation of an urban farm for the City of West Palm Beach under a Brownfields Cleanup grant within the two-year grant time constraints.
- E Sciences just completed a \$2M cleanup at Taylor Park, a site owned by the City of North Miami Beach.
- E Sciences is initiating assessment and remediation planning for the City of Hallandale at the Chaves Lake Park.
- We are assessing and planning for contamination remediation as park redevelopment planning and bidding continues for several parks in Miami Dade County including Rucks Park, Cagni Park, Ives Estate Park and Curtis Park.

#### **Reporting on endangered animals (turtles and owls):**

E Sciences staff of ecologists and biologists offers decades of formal education and practical experience in the assessment and determination of permitting requirements for lands occupied by listed species. E Sciences has worked closely with both private and public entities throughout Florida to assess project specific habitat and mitigation requirements for lands occupied by listed species. E Sciences' experienced ecologists can determine the potential presence of protected species as well as design and conduct both quantitative and qualitative surveys necessary to estimate population density and habitat usage of protected species on any given site. Our staff are versed in land planning, relocation and mitigation to manage both development and listed species protection. Our staff also keeps current with the changing regulations involved with listed species such as recent changes to gopher tortoise permitting and relocation. Several of our staff have participated on numerous boards or spoken at committees and conferences on these issues.



E Sciences employs Florida Fish and Wildlife Conservation Commission (FWC) gopher tortoise agents. Since this requires a significant amount of direct experience, there are only eight gopher tortoise agents in Broward County and E Sciences is proud to employ one of those. The following projects provide examples of our experience:

- E Sciences has conducted surveys, permitting and relocation of burrowing owls and gopher tortoises at the Fort Lauderdale Executive Airport (FXE). We have also provided on-call support to FXE during construction to respond quickly and abate "starter burrows" when they were observed in construction areas.

- E Sciences conducted a burrowing owl survey at JC Bermudez Park for the City of Doral. E Sciences obtained a migratory bird permit for nest relocation from the FWC to accommodate the park's proposed construction project.
- E Sciences conducted 24 hour per day/seven day per week manatee observation and water quality monitoring during dredging activities in the Jupiter Inlet and the Atlantic Intracoastal Waterway in Jupiter. Our scope of services included post-dredge seagrass surveys to determine if the dredging activities resulted in seagrass impacts.
- Under our contract with FDOT District Four, the E Sciences team performed daily nest monitoring and observation for sea turtles in Palm Beach County during the nesting season.
- We have also provided threatened and endangered species surveys and monitoring for roadway projects in Broward, Palm Beach, Martin and Indian River Counties for FDOT. Species monitored include gopher tortoise, the Florida black bear, West Indian Manatee, Florida scrub-jay, crested caracara, wood storks, sand skink, sea turtles, kestrels, burrowing owls, eastern indigo snake, red-cockaded woodpecker, Florida sandhill cranes, Florida panther, bald eagles, various wading birds and rare plants.
- We provided land restoration plans for the Southern Glades Everglades Restoration Area to restore habitat for the Cape Sable Seaside Sparrow and the Florida Panther.

#### **Opportunities for Subconsultant Services:**

The RLI provides a list of the types of projects that may be undertaken under this contract. There are several projects outlined in the City's Capital Improvement Plan and several projects listed that provide opportunities for us to engage our local business partners. As requested by the City water and wastewater support services will be provided by **Intercounty** under this contract. They are familiar with the City and have experience with all types of public works projects including lift stations, pump stations, water and wastewater treatment plants, water mains, force mains, sanitary and stormwater systems. As such, they can assist with engineering and field services related to water, wastewater and stormwater if needed under this contract.

We have included **QuEST** to provide geotechnical services. Although not specifically included in the RLI, we have subcontracted numerous geotechnical investigations under our existing contracts with the City. In the past we used a national firm, but moving forward QuEST will be our partner, enabling us to provide work to a local business.

#### **Opportunities for Enhanced Services and Capital Project Support:**

Our understanding of the City's needs is based upon our firm and employee residents' firsthand experience with the City and review of the Pompano Beach Capital Improvement Program (CIP). Some specific issues that the City may be confronting that will require assistance from the firm who is awarded this contract include the following:

- Phase I, Phase II and Phase III ESAs on properties to facilitate redevelopment and ensure the City secures liability protections during site acquisition;
- Responsive turnaround assessment for unanticipated storage tanks, discharges or discoveries that may arise from redevelopment of old historical land uses that may be identified during construction of public projects;
- Water quality improvement projects such as those associated with the sewage spill in the Pompano Canal or stormwater drainage infrastructure. This can include parking lots, roadway improvements and redevelopment;
- Stormwater master planning for a comprehensive approach to managing and planning for future flood adaptation;

- Contamination assessment or remediation at contaminated properties slated for redevelopment or identified during removal at City facilities;
- Technical support to assist the City with identifying potential impacts and costs from the numeric nutrient criteria and the NPDES permits;
- NEPA support to address FDOT's requirements for Local Agency Program (LAP), Federal Transit Administration (FTA) or the Metropolitan Planning Organization's (MPO's) Transportation Alternatives Program projects. This can be used to ensure compliance on funded roadway and streetscape projects;
- Assistance with funding to include State Revolving Loan Funds or grants such as the Section 319, Total Maximum Daily Load (TMDL), Sustainable Communities, Brownfields Redevelopment and others;
- Coastal permitting and consulting as the City's needs to armor the shorelines to prepare for climate change are addressed. This can be in the form of seawall restoration, living shorelines and beach renourishment;
- Benthic surveys, ecological evaluations and permitting for support of canal/lake dredging or bridge/seawall/dock rehabilitation projects;
- Environmental enhancement master planning for parks and recreation facilities;
- Conducting storage tank upgrades at lift station and pump station rehabilitation projects;
- Inspection services for emergency repairs related to water, wastewater or stormwater
- Identification of wetlands, tree conflicts or contamination during planning and permitting for utility corridor projects such as force, gravity sewer, re-use and water main projects;
- Industrial hygiene related services in response to employee concerns regarding indoor air quality and mold;
- Building materials evaluations at buildings slated for renovation or demolition;
- Inspection services such as those required for installation of subsurface improvements in an urban setting (utility poles, bus shelters, sidewalk improvements, drainage structures etc.);
- SPCC Plans for areas with aboveground storage of petroleum;
- Assessment and dewatering plans in potentially contaminated areas;
- Manatee observation for waterway projects, such as maintenance dredging;
- Sedimentation and erosion control training for staff;
- Environmental permitting for dredging or site development;
- Assisting with the Brownfields site designation review and processes; and
- Conducting annual canopy assessments and identifying street trees vulnerable to coastal flooding;

## Schedule

Each project that is contemplated under this contract will have unique time constraints. Schedules may be driven by due diligence, grants, contracts and other needs. A formal timeline is developed when we scope each project, so we cannot provide a “one size fits all” timeline in this response. But we can assure you of our commitment to meeting schedules.

We understand the importance of production schedules and delivery dates. To meet project deliverable dates that may have accelerated schedules we have automated our project scheduling process from the inception of the project. When the project scope has been approved by the City, Ms. Locke will initiate preparation of the necessary work plan, sampling plan, and health and safety plan as appropriate to the task. The second tier of the project management process will assemble and mobilize the most appropriate professional and technical team members for execution of the work and will administer the day-to-day activities for the duration of the project. Staff will monitor and report the status of schedule, budget, technical quality, and overall performance for timely review by Ms. Locke. She will apply an adaptive management philosophy to the project. Should unexpected issues that impact schedules arise, Ms. Locke will notify the City promptly and offer alternatives to mitigate schedule impacts.

Ms. Locke will continue to regularly communicate with City staff with project updates. The update may be communicated in a written report, if so requested, or may simply involve affirmation of the project schedule and tasks performed over the past week via electronic mail, if preferred. On a monthly basis, E Sciences will provide a project status report. This will likely be provided with an invoice and other reports or documentation required by the task order.

### **Current Workload**

We have reserved resources in our workload capacity for the City as we face the expiration of our existing contract. As such, we have plenty of resources available to continue to respond to the City's needs quickly and efficiently. At this time, E Sciences has one project with the City. We are currently conducting a Phase I ESA for the Oceanside Parking Lot Parcels located at 109 North Ocean Boulevard for a fee of \$3,560.

## References

E Sciences has provided references with associated scope, cost and responsibilities for past projects in the tri-county area.

**Elizabeth Wheaton, Director**  
**Environment & Sustainability Department for the City of Miami Beach**  
 1700 Convention Center Drive, 3rd Floor  
 Miami Beach, Florida 33139  
 Tel. (305) 673-7084 Ext. 26121 Email. [ewheaton@miamibeachfl.gov](mailto:ewheaton@miamibeachfl.gov)



### City of Miami Beach Environmental / Coastal Engineering Continuing Services

**Project Dates:** August 2011 – Ongoing

**Project Budget/Amount Invoiced to Date:** \$1,443,733/\$986,491

**Description:** E Sciences was awarded a contract with the City of Miami Beach to conduct environmental / coastal engineering services. Our responsibility was to provide general environmental support services to a variety of projects. Several of these projects were related to capital improvement planning or permitting. E Sciences has provided a variety of projects to the City under this contract including the following:

- Environmental permitting for seawall restorations (Fleet Management, Carl Fisher, etc.)
- Environmental permitting for new structures such as the Baywalk and kayak/canoe launches
- Benthic survey and evaluation for potential mooring field in Sunset Harbor
- Phase I and Phase II ESAs/Asbestos Surveys for Miami Beach Convention Center and Associated Lots
- U.S. Department of Housing and Urban Development (HUD) NEPA Review and Phase I ESA for Tatum Park
- Groundwater Elevation Monitoring and Mapping Support, Sunset Harbor Sea Level Rise Evaluation
- SPCC Plans for 12 City Facilities
- Green Waste Facility Site Assessment and Engineering Control Installation, regulatory closure assistance
- Fleet Management Facility Site Assessment and Testing
- Street Tree Inventory Greenspace Canopy Assessment
- Fleet Management Facility Site Assessment Report
- Citywide Sea Level Rise Evaluation



**Horacio Danovich, Director of Engineering Services  
Pompano Beach Community Redevelopment Agency**

100 West Atlantic Boulevard, Room 276

Pompano Beach, Florida 33060

Tel. (954) 786-7834 Fax. (954) 786-7836 Email. [horacio.danovich@copbfl.com](mailto:horacio.danovich@copbfl.com)



**Continuing Contract for Environmental Engineering Services**

**Project Dates:** July 2010 – Ongoing

**Project Budget/Amount Invoiced to Date:** \$243,784/\$225,613

**Description:** E Sciences was awarded a contract with the Pompano Beach CRA to conduct environmental engineering services in 2010. To date, E Sciences has provided tasks for several projects including the following:

- NEPA compliance documents to satisfy FDOT funding through the LAP for Martin Luther King Jr Boulevard/NW 31<sup>st</sup> Avenue and NW 7<sup>th</sup> Avenue Sidewalk Improvements
- NEPA compliance documents to satisfy application for U.S. Department of Transportation funding for Dixie Highway Improvements
- NEPA compliance documents for Health and Rehabilitative Services Grant for Broward Community and Family Health Center
- Phase I and Phase II ESA and Asbestos Survey for Parcels Located at the northwest Corner of Atlantic Avenue/West Dixie Highway, Blanche Ely and Adjacent Parcels, 731 Hammondville Road Parcel, the Mallek Phase II ESA for Community Gardens Parcels, Flagler Avenue Property and 8 Hammond Road Parcels.



**Stephanie Heidt, AICP, Economic Development and Intergovernmental Programs Director**  
**Treasure Coast Regional Planning Council (TCRPC)**  
421 SW Camden Avenue, Stuart, Florida 34994  
Tel. (772) 221-4060 Cell. (772) 475-3863 Email. [sheidt@tcrpc.org](mailto:sheidt@tcrpc.org)



### EPA Brownfields Grant Support Services

**Project Dates:** 2008 – Ongoing

**Project Budget/Amount Invoiced to Date:** \$348,811/\$334,877

**Description:** For three multi-year contracts and grant cycles, E Sciences has provided environmental consulting services in support of the implementation of the TCRPC EPA Brownfields assessment and remediation grants. In this role, E Sciences conducted Phase I and ESAs, site assessments and remediation planning. We also provided the U.S. Environmental Protection Agency (EPA) required reporting to comply with grant provisions. The following list some project examples that we completed under this contract.

- Phase I ESA for Ballet Florida, 500 Fern Street, West Palm Beach
- Phase I ESA for Seaboard Train Station, 201 Tamarind Boulevard, West Palm Beach
- Phase II ESA for Transit Oriented Development Site “the Wedge” in West Palm Beach
- Phase I and Phase II ESAs, Site Assessment Report, Remediation Planning and Asbestos Surveys for Former West Palm Beach City Hall
- Limited Site Assessment for Henrietta Avenue for Community Garden



## Prior Projects Performed for the City of Pompano Beach

<b>E Sciences Projects Completed within the Last Five Years for the City and the CRA*</b>		
<b>NAME</b>	<b>DESCRIPTION</b>	<b>BUDGET</b>
Ali Building	Update site visit conditions since the completion of the Phase I ESA conducted in 2011.	\$1,067
1841 Commercial Warehouse Building	Asbestos and lead-based paint survey for redevelopment of a commercial warehouse.	\$3,641
Pompano Beach Airport	Soil sampling to evaluate potential soil reuse of soil excavated from construction site for a golf course remediation project.	\$21,154
Proposed Youth Sports Complex	Phase I ESA for an Elks Lodge to be redeveloped into a Youth Sports Complex.	\$3,095
Palm Aire Lakes	Provide a water quality Assessment snapshot of the Palm Aire Lakes as related to Class III Freshwater standards.	\$18,211
Palm Aire Golf Course	Asbestos survey and lead based paint inspection for Palm Aire Golf Course Shed.	\$1,553
223 NE 13th Street Parcel	Phase I ESA for commercial property considered for potential purchase and redevelopment by City.	\$2,800
Pompano Beach Woman's Club Property	Phase I ESA for property located at 314 NE 2nd Street.	\$2,845
Dixie Highway	NEPA Assessment for Tiger Grant for roadway improvements along Dixie Highway to include a cultural resources assessment.	\$45,695
Palm Aire Country Club	Phase I ESA for a country club including a golf course and lakes.	\$3,000
1213 E Atlantic Avenue Parcel	Phase I ESA and pre-demolition asbestos survey.	\$6,907
Elks Lodge	Pre-demolition asbestos survey and lead based paint inspection.	\$6,757
Sabal Golf Course	Soil assessment efforts to complete estimation of impacted soil areas to develop and implement a remedial strategy to enable the City to obtain a Site Rehabilitation Completion Order with Conditions and planned redevelopment.	\$74,000
Denny's Restaurant	Phase I ESA and pre-demolition asbestos survey for a property considered for potential acquisition and development by the City.	\$6,990
Fire Station 52 Property	Phase I ESA, Asbestos Survey and Lead-based paint survey for property to be demolished and redeveloped by the City as a Fire Station.	\$8,792
Fire Station 114	geotechnical evaluation for property to be redeveloped by the City as a Fire Station.	\$3,848
1207 East Atlantic Boulevard Parcel	Phase I ESA of vacant lot in anticipation of the City acquiring the property.	\$3,042

<b>E Sciences Projects Completed within the Last Five Years for the City and the CRA*</b>		
<b>NAME</b>	<b>DESCRIPTION</b>	<b>BUDGET</b>
Sabal Golf Course	Engineering Control Maintenance Plan to support the regulatory closure for the proposed Pompano Beach Sports Park Reuse Area	\$15,000
550 Cypress Road Property	Pre-Demolition Asbestos Survey	\$3,147
Palm Aire Drive and 5th Avenue Bridges	pre-demolition and pre-renovations lead paint surveys	\$4,705
Oceanside Parking Lot Parcels	Phase I ESA	\$3,560
NW 7th Avenue Sidewalk Improvement	Programmatic Categorical Exclusion Checklist, inclusive of a Cultural Resource Assessment Survey, for a sidewalk improvement project to satisfy FDOT funding.	\$9,732
Belle Two	Phase I ESA for potential purchase by the City.	\$3,947
100 SE 20th Avenue Parcel	Phase I ESA for potential purchase by the City.	\$2,800
Annie Gillis Urban Park	Geotechnical exploration and hydrological testing for urban park redevelopment in the CRA.	\$6,248
21 South Federal Highway Parcel	Phase I ESA for an automotive wash site.	\$2,877
Mullet Alley Property	Geotechnical survey of the site for evaluation of soil conditions as part of potential development for the City.	\$5,800
103 & 111 S. Federal Highway Parcels	Pre-Demolition asbestos survey.	\$5,527
814 NW 3rd Street Parcel	Pre-Demolition Asbestos Survey.	\$2,942
Pompano Ford Lincoln Property	Phase I ESA for potential City acquisition	\$3,080
111 S. Federal Highway Parcel	Phase I ESA.	\$5,900
119 S. Federal Highway Parcel	Phase I ESA.	\$2,600
119 S Federal Highway Parcel	Phase II ESA to evaluate the potential presence of petroleum impacts based on historic reported discharges based on current standards.	\$9,900
Pompano Amphitheater	Geotechnical survey	\$26,000

\*Please note that geotechnical, asbestos and lead based paint surveys were conducted by our subconsultants.

## Project Team Form

COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RLI IN THE EBID SYSTEM.

### PROJECT TEAM

RLI NUMBER E-22-20

Federal I.D.# 59-3667002

#### PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	Peter Partlow, PE	31	MBA/BS
Project Manager	Nadia Locke, PE, LEED AP	32	BS
Asst. Project Manager	Maria Paituvi, PE	14	BS
Other Key Member	Patrick Shearer, PE	12	BS
Other Key Member	Gayle Stone, MS	26	MS/BA

#### SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying		
Landscaping		
Engineering	Intercounty Engineering, Inc. 1925 NW 18th Street 3307, Pompano Beach, Florida 33069	Luis Fernando Cordova Thomas V. Veit
Other Key Member	QuEST Engineering 2737 NW. 19th Street, Pompano Beach, Florida 33069	R. N. Sailappan, PE Reza Javidan, PE
Other Key Member	AirQuest Environmental, Inc. 6851 Southwest 45th Street, Fort Lauderdale, Florida 33314	Traci-Anne Boyle, MBA, CIH, CSP
Other Key Member	Pace Analytical Labs 3610 Park Central Boulevard North, Pompano Beach, FL 33064	Neshmah Castaneda
Other Key Member	JAEE Environmental Service, Inc. 3101 Peachtree Circle, Davie, Florida 33328	Willie Smitherman

(use attachments if necessary)

## Organizational Chart

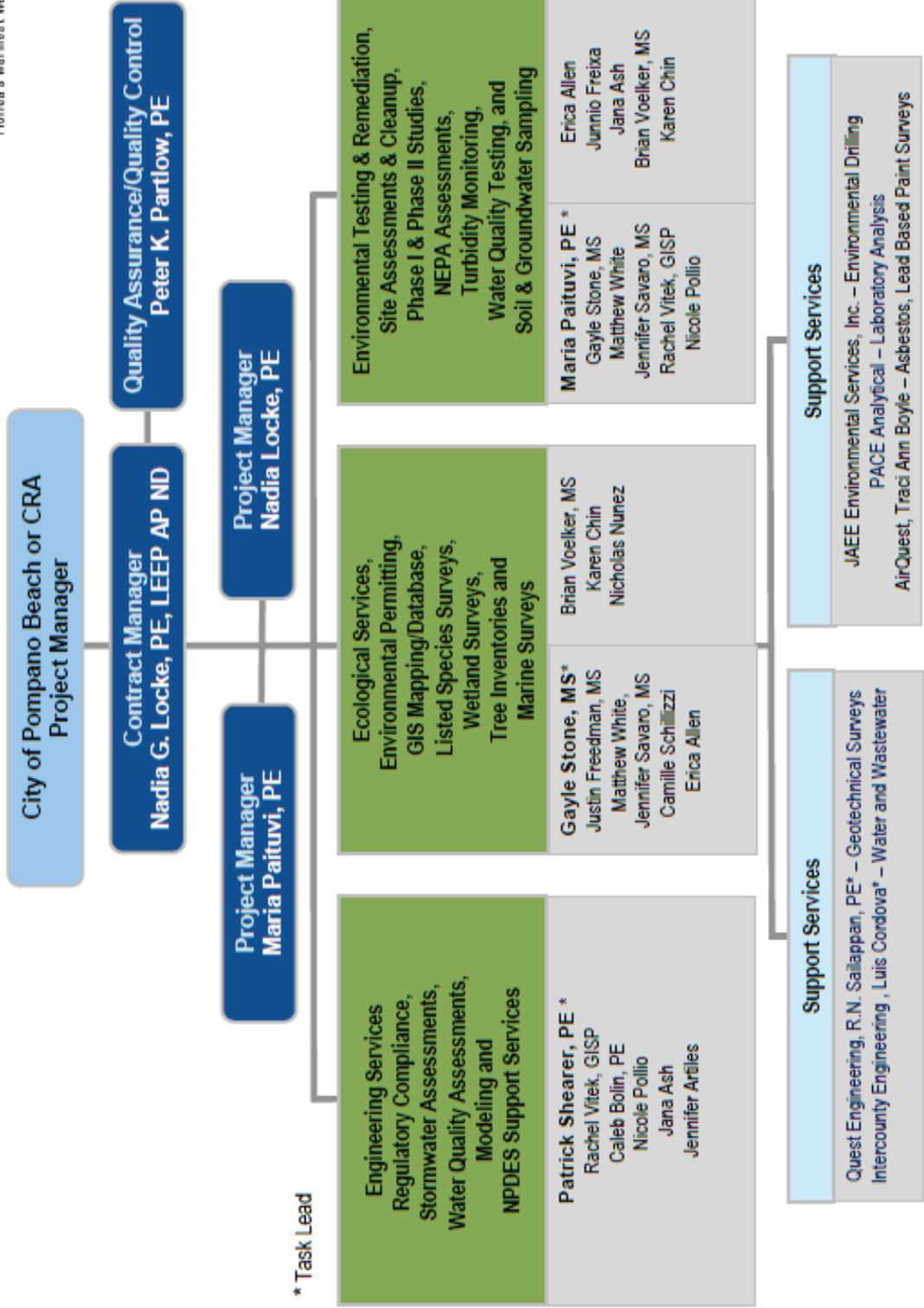
The City's commitments to its community require planning for potential environmental impacts and managing environmental issues as they arise. At E Sciences, we embrace the role of the environmental consultant to support the City and its other consultants in providing a coordinated and broad approach to addressing the environmental issues and risks that must be managed as part of the process. We will keep in mind the overall goals of each project as we work through the details necessary to satisfy your needs. Our understanding of the City's needs is based upon our experience with providing environmental engineering services for other municipal clients and cities, our local knowledge of the City through our work with the City and the CRA.

### **Organizational Chart**

In the organizational chart on the following page, we have grouped environmental service types that would be coordinated and executed by the same key individuals so that we could clearly present the individuals responsible for the coordination of the separate components of the scope of services. These services are based upon the scope of services that we have provided for the City or CRA in the past or anticipate that may be needed in the future based upon the City's Capital Improvement Plan. The organizational chart also shows how subconsultants and subcontractors will be utilized. Please refer to our management plan approach outlined on Page 7.



## Organizational Chart Professional Environmental Testing and Consulting Services



\* Task Lead

Firms in Dark Blue Meet the City's Local Business Program as Local Vendors

## Statement of Skills and Experience of Project Team

### Team Experience

As the “E” in our name indicates, E Sciences’ business is entirely focused on providing services in the environmental, engineering and ecological fields. Our staff includes registered professionals and degreed scientists whose expertise provides a comprehensive and combined set of skills that support our clients’ goals through and beyond the planning, design and construction phases of their projects. Because of the depth of experience, our Fort Lauderdale based staff averages more than 13 years of professional experience per person.

Our presence in South Florida has grown since we opened E Sciences' Fort Lauderdale office on Earth Day 18 years ago. We have **prime continuing environmental engineering and science service contracts** with the following government entities which are all managed and serviced from the Fort Lauderdale office:

- City of Pompano Beach
- Pompano Beach CRA
- City of Fort Lauderdale
- City of Miami Beach
- City of Miami
- City of North Miami Beach
- City of North Miami
- City of Homestead
- Islamorada, Village of Islands
- City of Key West
- TCRPC
- FDOT District Four
- SFWMD
- City of Dania Beach

In addition, we have conducted similar services for the following additional municipal clients:

- City of Coral Gables
- City of Lauderdale Lakes
- City of Oakland Park
- City of Miami
- City of Deerfield Beach
- City of Doral
- City of Key West
- City of West Palm Beach
- City of Lauderdale Lakes
- City of Dania Beach

Because these projects were all managed from E Sciences' Fort Lauderdale Office, the City will benefit from having the same staff from the above contracts working on your projects. Our Contract Manager, Ms. Locke has conducted work for all of these cities.



To serve the City, E Sciences has compiled a team of qualified firms, including the following subconsultants and subcontractors who will provide the designated specialty services: most effectively

<b>Subconsultant and Subcontractor Roles</b>		
<b>Subconsultant / Subcontractor</b>	<b>Service to be Provided</b>	<b>Relevant Project Experience Subconsultant/Subcontractor</b>
AirQuest	Asbestos, Radon, Lead Paint, Mold, Indoor Air Quality	Asbestos surveys for the Palm Aire Drive and Fifth Avenue Bridges, Palm Aire Golf Course, Elks Lodge, Denny's Restaurant, 550 Cypress Road Property
QuEST	Geotechnical Surveys	Structural Mitigation of Various Residences in Pompano Beach, Broward Water Treatment Plan, Long Key Park, Sample Road ARV Installations, Broward County, Miramar Water and Hollywood Water Treatment Plants, Fort Lauderdale International Airport Terminal 1 Expansion
Intercounty	Water and Wastewater Support Services	Rehabilitation of Pompano Sanitary Sewer Manholes, North Regional Wastewater Treatment Plant force main modification for Lift Stations 3 and 5, Sawgrass Wastewater Treatment Plant Clarifier Scum Upgrades
JAEE Environmental	Environmental Drilling	Many Pompano Beach CRA Phase II ESA projects
PACE	Soil, Groundwater, Sediment Laboratory Analysis	Palm Aire Lakes Water Quality Evaluation, Tarpon River

Note: Projects in blue indicates projects that E Sciences worked with the subconsultant.

### Prior Experience of the Firm with Projects of Similar Size and Complexity

The following government contracts provide examples of specific projects (successfully completed within the last five years) where the team members have performed similar projects.

#### **Pompano Beach CRA Continuing Contract for Environmental Engineering Services**

**Client:**

Pompano Beach CRA

**Key Personnel Involved:**

Nadia G. Locke, PE, LEED AP and Maria Paituvi, PE,  
Jamie Patterson-Brady, PG, Gayle Stone, MS, Brian Voelker, MS

**Key Subcontractors Involved:**

JAEE Environmental Services, Inc. and Ground Hound Detection Services, Inc.

**Similar Types of Projects to Pompano Beach:**

Phase I and Phase II ESAs, Monitoring Well Installation, Soils and Groundwater Sampling and Report Preparation, Asbestos Surveys and Remediation Recommendations

**Description:** E Sciences was awarded a second term contract with the Pompano Beach CRA to provide environmental engineering services. We also have a contract with the City of Pompano Beach to provide similar services, but this CRA contract is specific to assisting with projects that stimulate redevelopment within the CRA. All of the services provided under this contract are on properties within the designated Pompano Beach Northwest Brownfield Area.



Our approach to assisting this client has been to utilize creative assessment tools to identify the real potential concerns and to quickly assess how they can be addressed in a practical manner during design and construction. This approach is allowing the redevelopment projects to proceed without the obstacle of assessment and remediation. On numerous occasions, we have met in person with the client (at no cost) to understand the CRA's mission and overall goals and plans to ensure that our role on the team is integrated, practical and helpful. To date, E Sciences has provided tasks for several projects including the following:

**Community Gardens Parcels:** E Sciences evaluated the suitability of three vacant, CRA-owned parcels for use as community gardens for a local school. The community gardens will be used to teach children about agriculture and healthy food choices. Vegetables grown on these lots will be used to provide fresh vegetables for families and children in the community. Incremental sampling methodology was used for soil assessment at this site resulting in several thousands of dollars in savings for the CRA.

**Blanche Ely and Adjacent Parcels:** E Sciences assessed this property, which consists of 27 parcels in the CRA. Historic land uses such as dry cleaners, an automotive repair facility and an UST were identified to be recognized environmental conditions (RECs). Phase II testing indicated the presence of chlorinated solvents at this property. E Sciences further assisted the CRA on the best way to utilize the information in the context of the CRA's plans for future re-development. The CRA is currently moving forward with redevelopment of these properties.

**Mallek Property:** E Sciences performed a Phase I and Phase II ESA of multiple acres of urban land being purchased by the Pompano Beach CRA to evaluate potential environmental concerns. The Phase I ESA revealed the possible presence of a historic USTs and contamination associated with the historical land use. Phase II services included a

geophysical survey, and soil and groundwater testing. A UST was discovered during the Phase II ESA. E Sciences provided guidance to the CRA as to the proper regulatory course of action to remove the UST and move forward with purchase and redevelopment of the Site.



**Broward Community & Family Health Center:**

E Sciences prepared Environmental Information and Documentation to satisfy Health Resources and Services Administration grant application requirements. The project was conducted to support the potential redevelopment of CRA parcels with a much-needed community health care facility. The documentation was required for the grant applicant to comply with the National Environmental Policy Act.

**Corner of Atlantic Avenue/West Dixie Highway:** This is an assemblage of numerous parcels owned by the CRA and adjacent properties owned by others. E Sciences conducted a Phase I and Phase II ESAs on the multiple parcels. The Phase I ESA revealed RECs related to historical land uses such the following: dry cleaner, gasoline station, blueprint and photostat business, auto sales and service center with historic underground storage tanks and a lumber yard. The site was determined to be contaminated from the historic dry cleaner.

E Sciences prepared a site development evaluation for this property providing guidance to the CRA on how the presence of contamination could impact site redevelopment and set forth strategies for minimizing the impact of contamination on the construction; designing the site to minimize the impact of the construction and site development; and to reduce potential risks.

**8 Hammondville Road Parcels:** E Sciences conducted a Phase I and II ESA for eight parcels within the Pompano CRA planned for future redevelopment. Buried debris was identified during the Phase II ESA, but guidance was provided to the CRA on how they could still redevelop the properties. The Site was successfully redeveloped and is currently occupied by a two-story commercial building and associated parking lot.

**Flagler Avenue Property:** E Sciences conducted a Phase I ESA of 0.5-acre parcel of land owned by the CRA to prepare for redevelopment. Our approach to performing this assessment included a review of the public records, interviews with appropriate local agencies, a site reconnaissance and preparation of a written report containing findings, opinions and conclusions.

**731 Hammondville Road Parcel:** E Sciences conducted a Phase I and II ESA for this parcel within Pompano CRA. The Phase I ESA revealed historic land uses that warranted further evaluation (gasoline station and dry cleaners). No contamination of concern was identified during the Phase II ESA.

## City of Fort Lauderdale General Environmental Engineering Services

### Client:

City of Fort Lauderdale

### Key Personnel Involved:

Nadia G. Locke, PE; Maria Paituvi, PE; Patricia L. Gertenbach, PG; Gayle Stone, Jennifer Savaro, Cavel Williamson, Rachel Vitek, Junnio Frexia, Matthew White, Nicole Pollio, Brian Voelker, Justin Freedman

### Key Subcontractors Involved:

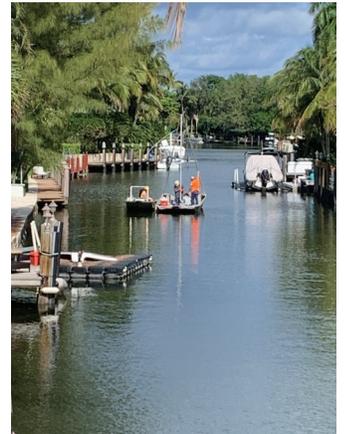
JAEE Environmental, Inc. and Ground Hound Detection Services, Inc.

### Similar Types of Projects to Pompano Beach:

Phase I and Phase II ESAs, Monitoring Well Installation, Soils and Groundwater Sampling and Report Preparation, Asbestos Surveys and Remediation Recommendations, Air Quality Testing and Associated Reports, Grant Support Services, Permitting Support

**Description:** E Sciences was awarded a contract with the City of Fort Lauderdale (City) to provide ongoing environmental engineering support during three separate consultant selection processes. The scope of the contract is broad and provided us with a wide range of opportunities to support the City. The following summarizes some of the projects completed:

**Tarpon River Restoration:** A 54" sanitary sewer force main pipe broke in the Rio Vista neighborhood, adjacent to the Tarpon River. Two breaks caused discharges from the force main to flow into the Tarpon River. The discharges included raw wastewater and sediment laden water from dewatering activities related to the repair of the force main. The Tarpon River is a Class III water, meaning the designated uses include fish consumption, recreation, and propagation and maintenance of a healthy, well-balanced population of fish and wildlife. The City engaged E Sciences to identify the impact area and develop a restoration plan for the affected portion of the Tarpon River. E Sciences used vibracore technology to collect sediment cores for visual characterization and sample collect. Sediment samples were analyzed for human waste indicators and bacteria to define the area of impact. A benthic survey using a "go-pro" camera was used to document the river bottom and to evaluate the presence of submerged aquatic vegetation. A hydrographic survey was conducted, and the information used to estimate the dredge material volumes for the purposes of obtaining contractor bids. E Sciences collaborated with the USACE, FDEP and Broward County to identify ways to streamline the agency permitting and authorization procedures and in support of the development of a sediment removal plan. Weekly updates were provided to the City to be disseminated to the public to keep the residents informed of the progress of the project.



**Bonnet House Greenway Access:** E Sciences was engaged by the City to conduct an environmental evaluation for proposed greenway between Birch State Park through the Bonnet House Museum and Gardens property (Bonnet House) to North Birch Road to the South. The project objectives are providing connectivity from Sunrise Boulevard and Birch State Park to the island community located south of the Bonnet House property; immersing the user in the mangrove forest; maintaining a distance between the user and the Bonnet House activities and not interfering with the Bonnet House parking or landscaping. This evaluation was conducted to support a grant application for assistance under the National Park Service Rivers, Trails, and Conservation Assistance Program. E Sciences was requested to

seek ways to minimize impacts to environmental resources that could be incorporated into the design of the greenway. E Sciences proposed an alternative greenway layout that would reduce mangrove impacts by shifting the greenway into disturbed uplands areas towards the south end of the greenway. This alternative layout would also result in decreased impacts to landscape trees and preserve parking areas for the users of the Bonnet House property. Design measures, including an elevated boardwalk and permeable pavement, could be implemented to further reduce impacts to natural resources.



**Isle of Palms Seawall 15 Replacement and Climate Change Adaptation:**

E Sciences provided support to the City in anticipation of replacement of 900 feet of seawall along the west side of Isle of Palms Drive. Sea level rise has caused surface waters to overtop this seawall and flood adjacent land and roads. The purpose of the project is to raise the height of the seawall and protect the shoreline from the effects of climate change. The City engaged E Sciences to conduct a benthic survey to support the design and permitting. Seagrasses were identified and data regarding on seagrass bed size, density, incidental species observed, and substrate conditions were recorded

and documented. E Sciences collaborated with the design engineers to assist them in obtaining the regulatory agency permits and by the City to inform the construction procurement process. The report was delivered one week ahead of the contract schedule and under budget.

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

**NEPA Statutory Worksheets:** The City seeks Community Development Block Grants from HUD to improve quality of life through neighborhood enhancement projects. E Sciences conducts environmental reviews and prepares the NEPA Statutory Worksheets for projects that are categorically excluded under NEPA, such as decorative street name posts, entryway monuments, brick paver crosswalks, decorative lighting and landscaping. The preparation of this worksheet requires coordination with environmental regulatory agencies, including the State Historic Preservation Office, the FDEP, and the EPA. The Statutory Worksheet includes a Determination section with three options. If the project does not require mitigation for compliance with listed statutes or authorities, nor require formal permit or license, then it converts to Exempt status. Based on the proposed change in use of the property, it was determined that the project did qualify as a Categorical Exclusion and required a higher level of review. E Sciences has prepared these Statutory Worksheet for multiple projects across the City.

**Former Transfer Station:** E Sciences was engaged under the City to provide environmental support for the regulatory closure of the former trash transfer station related to the documented soil and groundwater contamination at this property. E Sciences compiled historical assessment information and regulatory requirements to define the areas to be subject to engineering controls (ECs). E Sciences teams drafted the design drawings depicting the affected areas and technical specifications. The design documents included soil handling provisions, environmental considerations and approximated quantities. The design documents were prepared for the City to distribute as the proposed scope of work for the bidding package.

**Las Olas Circle Site Assessment:** A UST containing fuel was discovered during installation of a water main at a city-owned project site undergoing redevelopment. A crack developed on the side of the tank and approximately 10 gallons of fuel spilled. E Sciences mobilized to the Site shortly after the tank was discovered and advised the CRA on measures to secure the tank. The tank was discovered at approximately 3:00 PM and the site was cleaned and secured by approximately 4:30 PM. Removal of the tank, conducted by others, revealed the presence of contaminants

above the regulatory standards in the soil and the groundwater. The City engaged E Sciences to conduct additional site assessment as required by Broward County Environmental Protection and Growth Management Department (EPGMD). E Sciences conducted soil and groundwater sampling activities to try to delineate the contaminants detected above the regulatory standards and prepared a Site Assessment Report. Based on evaluation of the analytical data, the contaminants appear to not be related to the former tank and E Sciences proposed the implementation of alternative cleanup target levels to pursue regulatory closure of the contamination.

**NPDES Permitting Support:** NPDES Permitting Support: E Sciences has worked with the City to prepare their TMDL Prioritization Plan and Assessment Program as required to be submitted within Year 1 of the City's NPDES MS4 permit. During Year 2 of the permit, E Sciences began preparing pollutant load analysis and reviewing monitoring data collected by the County to help the City understand the effects of their stormwater system improvements on neighboring waterbodies, as well as to comply with the permit. In addition, E Sciences is preparing the City's Bacterial Pollution Control Plan Preparation (BPCP), working with multiple stakeholders in the area for effective reporting and cost savings, which will be submitted with the City's Year 3 annual report. E Sciences continues to provide on-going NPDES support as needed to the City including review annual report and SOPs to ensure compliance with permit requirements.

**Sistrunk Boulevard:** E Sciences was hired by the City to conduct soil and groundwater testing along Sistrunk Boulevard from I-95 to Andrews Avenue. The project was conducted in order to support the CRA with implementing a streetscape, drainage and roadway enhancement project. E Sciences conducted soil and groundwater testing at 36 locations to evaluate potential impacts to construction that may arise due to known contaminated sites historically located along the corridor. Potential sites of concern included historical dry cleaners, gasoline stations, junk yards and an incinerator ash landfill.



Prior to implementation, E Sciences worked with the FDOT (who provided funding) to determine a scope of analytical services. E Sciences reconciled the proposed subsurface structure locations (drainage structures, light fixtures, etc.) identified on construction plan sheets with the existing corridor conditions and proximity to potentially contaminated areas. Due to the high number of utilities anticipated to be located in close proximity to the drilling locations, E Sciences engaged a private utility location contractor to locate underground utilities using ground penetrating radar and electromagnetic radiation surveys, in addition to review of City plans and coordination with Sunshine One Call. A Maintenance of Traffic (MOT) plan was prepared and submitted to the City prior to field activities.

In addition to an assessment report, E Sciences provided general notes and bidding specifications language outlining requirements for managing contaminated soils and groundwater to be incorporated into the bidding and contract documents for this project. During construction, we assisted the City in working with the contractor to minimize impacts to construction and keep the project moving. This "stimulus" project meant deadlines were critical and the work needed to be expedited. We developed a scope of work, met with FDOT to negotiate the scope, conducted private utility location, developed an MOT plan, and initiated the sample collection within 13 days of the first phone call. Our draft report was provided to the CRA within an additional 12 working days. This project was completed to the satisfaction of the CRA and FDOT and we delivered the project under budget by more than \$12,000.

**Fire Station #49:** This project was undergoing redevelopment with a new City fire station when petroleum contamination was discovered during construction. E Sciences mobilized to the site the same day as requested to further investigate the implications of this finding on construction and regulatory notification. Historic and regulatory records indicated historic underground storage tanks on the property. Consultation with regulatory agencies, collection

of soil and groundwater samples and sound environmental judgment allowed this project to proceed with minimal time delay and costs to the project. E Sciences also conducted air monitoring for construction workers to evaluate potential health implications of exposure to the unknown products discovered and to provide the City with appropriate supporting documentation.

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



**Wingate Landfill Burrowing Owl Relocation:** This hazardous waste superfund site has undergone regulatory closure. A protective cap system was installed at this closed municipal landfill to eliminate potential exposure to contaminants and to prevent migration of contaminants from the landfill into the groundwater. A condition of the closure is conducting monitoring of groundwater, surface water and fish tissues on a periodic basis for a period of 30 years. During a five-year inspection, the EPA identified the presence of two burrowing owl burrows on top of the capped area of the landfill. The EPA directed the City to remove the burrows and evaluate the

integrity of the landfill cap. E Sciences was engaged to evaluate the possible damage, and coordinate burrow removal with state and federal regulatory agencies.

The burrows were scoped using a remote camera and video recorder in an effort to assess whether or not the owls had affected/damaged the geomembrane, and to assess whether there were owls present within the burrows. It was determined that there were no adults, eggs or flightless young in the burrows. The burrows were excavated, and it was found that the cap had not been adversely affected. Following coordination with the EPA, and the FWC, starter burrows were created outside of the cap area to encourage relocation of the owls. The old burrows were removed, and the owls relocated to the area outside the landfill cap.

**FXE Endangered Species Surveys, Permitting and Relocation:** E Sciences has conducted multiple endangered species surveys, migratory bird and gopher tortoise relocation permitting and relocation efforts for proposed construction projects at FXE. Endangered species encountered, permitted or relocated include burrowing owls and gopher tortoises.

**FXE Proposed U.S. Customs and Border Protection Facility:** E Sciences was engaged by the City to assist with understanding the outstanding environmental and regulatory issues at a tenant space at the FXE as part of the planning for a future U.S. Customs and Border Protection Facility. The property is currently occupied by another private tenant who historically operated two fueling facilities: one abandoned in place and one recently taken out of service. Our scope of services included tenant interviews, a site visit, review of the tenant's consultant assessment reports, and communications with Broward County's EPGMD. This project is continuing as E Sciences provides periodic updates and advises the City in ways to reduce the potential for liability associated with these former fueling systems and reduce the potential for impacts to construction.

**Progresso Village Neighborhood:** E Sciences conducted a Phase I ESA for the City's Neighborhood Services group in order to support application for federal funding for decorative entranceway signs.

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

**FXE Fuel Spill Regulatory Assistance:** Due to damage to an aircraft fuel tank caused by a low speed collision between two airplanes at Fort Lauderdale Executive Airport, a jet fuel discharge occurred and was reported to EPGMD. Immediately after the incident, staff employed emergency procedures and properly managed the spill. E Sciences was initially called in to conduct soil testing to determine if the soils in the area were impacted with jet fuel. Upon E Sciences' review of the documentation, it was determined that the discharge had been sufficiently managed and that the activities should not require soil assessment or a formal discharge report, which would trigger a requirement to conduct a Site Assessment. E Sciences provided documentation and communications sufficient for EPGMD to conclude that the reported discharge did not require further assessment and remediation.

**Melrose Manors Neighborhood:** E Sciences conducted a Phase I ESA and HUD Environmental Review for the City's Neighborhood Services group in order to support application for federal funding for decorative light posts.

**Fort Lauderdale Low Level Bridges:** E Sciences provided asbestos surveys in anticipation of demolition and reconstruction of three low level neighborhood bridges for the City. The survey reports for the Harborage, Marcetta River, and Carlotta River met the requirements for FDOT to provide funding for the projects.

**Fire Station #46:** E Sciences was contracted by the City to provide an indoor air quality survey to evaluate comfort-related issues posed by building occupants regarding indoor air quality. The scope of services included a walkthrough of the building; interviews with building occupants; observations of the air conditioning systems; measurements for temperature, relative humidity, carbon monoxide, and carbon dioxide in each building area; and moisture readings in areas where either visible indications of moisture impact were noted or that were reported by building occupants.

**HUD Environmental Documentation and Area-wide Floodplain Management Eight-Step Decision-Making Process:** To enhance the quality of life in our neighborhoods, the Fort Lauderdale City Commission has established four Community Investment Programs: the Neighborhood Community Investment Program, the Neighborhood Community Investment Grant Program, the Business Community Investment Program, and the Business Community Investment Grant Program. The goal of these programs is to provide matching grant funds for the construction of community improvements in the City's right-of-ways that beautify neighborhoods and enhance the quality of life for those who live, work, and visit the City of Fort Lauderdale. The majority of individual actions considered for these projects include the following: street name decorative posts, entryway monuments, entryway signs, concrete curbing, swales, sidewalks, median islands, decorative lighting, solar decorative lighting, landscape lighting, trees, landscaping, and irrigation. E Sciences has prepared numerous environmental documentation packages to support HUD funding for the City of Fort Lauderdale's neighborhood improvement projects. The majority of these involved the preparation of Environmental Checklists in compliance with HUD regulations. E Sciences also prepared an Area wide Floodplain Management Eight-Step Decision-Making Process for them to utilize when projects are located within a 100-year floodplain as defined by the Federal Emergency Management Agency.

**Benthic Surveys for Sylvan Lake Canal and Seminole River Canal:** E Sciences conducted benthic resources surveys to support dredging projects in two City-maintained waterways. E Sciences' biologists snorkeled each site to observe the presence of regulated benthic resources (i.e. seagrasses, corals, etc.) E Sciences' staff provided the City reports to accompany their permit applications.

**Environmental Assessment – South Middle River Improvement:** E Sciences' completed an environmental assessment of the project area to satisfy HUD financial support for paving and drainage improvements along a section of the South Middle River neighborhood. E Sciences completed an Environmental Review and completed the Statutory Worksheet for HUD projects Categorically Excluded per 24 CFR Part 58.25(a) to determine whether or not the project will have a significant impact on the environment. The Worksheet includes an environmental assessment of potential impacts to historic properties, floodplain management, wetland protection, coastal zone management, sole source aquifers, endangered species, Wild and Scenic Rivers, air quality, farmlands, environmental justice, noise abatement, explosives and flammables, toxic and radioactive chemicals and airport clear zones. The results of the evaluation determined that the project was not categorically excluded and required completion of the NEPA Environmental Assessment Checklist, revising the Statutory Worksheet in the Environmental Assessment Worksheet format, and a Finding of No Significant Impact (FONSI) to satisfy HUD financial support. In addition, E Sciences had previously completed the Eight-Step Decision Making Process for Floodplain Management for the project area, which was included as part of the documentation. The Eight-Step Decision Making Process is completed in order to evaluate compliance for Projects located within a floodplain or within a designated wetland. In this case, it was triggered by the location of the project within a floodplain and included public notice, evaluation of practicable alternative locations, identification of potential direct and indirect impacts, evaluated minimization of impacts and restoration and preservation of beneficial values of the floodplain.

**Environmental Assessment – Grace Community Development:** E Sciences was contracted to perform a HUD Environmental Review for an industrial property that was proposed to be redeveloped as a community center. The Environmental Review consisted of the Statutory Worksheet for Categorically Excluded projects. The preparation of this worksheet requires coordination with environmental regulatory agencies, including the State Historic Preservation Office, the FDEP, and the EPA. The Statutory Worksheet includes a Determination section with three options. If the project does not require mitigation for compliance with listed statutes or authorities, nor require formal permit or license, then it converts to Exempt status. Based on the proposed change in use of the property, it was determined that the project does did qualify as a Categorical Exclusion and required a higher level of review. Therefore, E Sciences completed an Environmental Assessment and completion of the HUD's NEPA Environmental Assessment Checklist, including an alternatives analysis, and the Environmental Assessment Worksheet to comply with federal laws and authorities.

**Statutory Worksheet – Community Redevelopment Agency Resurfacing Projects:** The City required an environmental evaluation of the project area to satisfy HUD requirements for providing financial support for resurfacing streets within the Fort Lauderdale CRA boundary. The approximate area of the project encompassed approximately 1,400 acres. The scope of our services included the preparation of an Environmental Review to comply with federal laws and authorities that would apply to HUD under the NEPA. The City had previously submitted an Area-wide Floodplain Management Eight-Step Decision-Making Process to HUD for projects of similar nature and scope that are eligible for Community Development Block Grant (CDBG) funds. However, this particular activity (resurfacing) was not contemplated by the City at the time of the preparation of the Area-wide Floodplain Management Eight-Step Decision Making Process documentation. Based upon our review of Federal Emergency Management Agency (FEMA) maps, the projects contemplated under this environmental review included areas within the floodplain requiring that the City evaluate the project in those areas in accordance with the citywide process. E Sciences performed a review of the CRA area and review of internal and public documents to evaluate existing environmental conditions as they relate to HUD regulations within the CRA and potential for impacts. The final deliverable was a Statutory Worksheet with the supporting documentation verifying compliance.

## City of Miami Beach Coastal Engineering Continuing Services

### Client:

City of Miami Beach

### Key Personnel Involved:

Nadia Locke, PE; LEED, AP, Maria Paituvi, PE; Patricia L. Gertenbach, PG; Gayle Stone, MS, Jennifer Savaro, MS, Cavel Williamson, Rachel Vitek, GISP, Junnio Frexia, Matthew White, Nicole Pollio, Brian Voelker, MS, Justin Freedman, MS

### Key Subcontractors Involved:

JAEE Environmental, Inc., Ground Hound Detection Services, Inc. and AirQuest, Moffit and Nichol, BCC Engineering

### Similar Types of Projects to Pompano Beach:

Environmental Permitting, Site Assessments and Site Assessment Report Preparation, Phase I and Phase II ESAs, Monitoring Well Installation, Soils and Groundwater Sampling and Report Preparation, Asbestos Surveys and Remediation Recommendations, Water Quality Evaluations

**Description:** E Sciences was awarded a contract with the City of Miami Beach to conduct environmental engineering services. To date, E Sciences has provided the City with consulting services including the following:

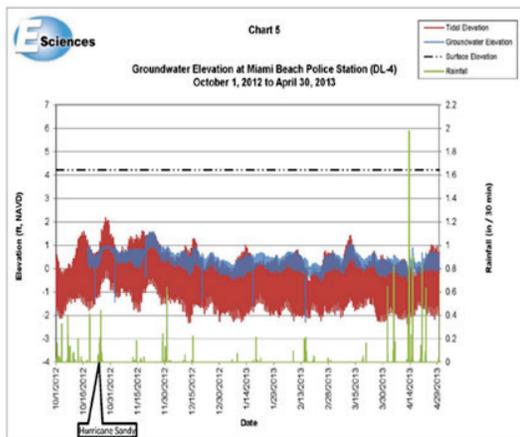
**Properties Adjacent to Miami Beach Convention Center:** In preparation for redevelopment of City owned properties to enhance the convention center area, E Sciences conducted a Phase I ESA for land parcels adjacent to the Miami Beach Convention Center. These parcels included a parking lot west of the convention center, the 21st Street Community Center and Bandshell north of the convention center and the Fillmore theatre. The Phase I ESA revealed the operation of a historic golf course on the project sites. This finding was identified as a REC based on the potential historical application of herbicides and pesticides on the ground. A Phase II ESA was conducted by E Sciences to evaluate the potential presence of soil and groundwater impacts based on the historical use of the sites. Incremental Sampling Methodology (ISM) was selected as the soil sampling approach. ISM results were indicative of the presence of arsenic concentrations above approved naturally occurring concentration criteria specific for Miami Beach. Limited groundwater impacts were detected in one area. E Sciences assisted the City in evaluating a viable development approach to address the onsite impacts. Upon coordination with Miami-Dade County Department of Regulatory and Economic Resources (RER) Department, the City has elected to implement a combination of ECs and source removal efforts as part of the development plan for the sites. Off-site assessment activities have been deferred to a later date. E Sciences documents were included as part of the bidding documents to provide guidance to the development contractor.

**Proposed Miami Beach Convention Center Headquarter Hotel:**

E Sciences conducted a limited site assessment for a site including a portion of the Fillmore Theater and parking areas adjacent to the Convention Center. This assessment was conducted based on the former presence of a golf course discovered during a Phase I ESAs conducted by E Sciences for adjacent properties. The assessment included soil and groundwater sampling and confirmed the presence of localized soil arsenic impacts and the presence of nitrate concentrations above groundwater cleanup criteria at the site. The City indicated that they would address these discoveries during development planning and implementation at a future time.



**Sea Level Rise (SLR) Evaluation:** E Sciences, Incorporated was engaged by the Miami Beach to evaluate areas within the City in anticipation of SLR. The purpose of the study was to evaluate low-lying areas vulnerable to flooding and SLR within Miami Beach based on the assumption that the groundwater levels are tidally influenced and therefore flooding may also be influenced or exacerbated by tidal fluctuations. These areas were identified as areas with limited soil storage capacity and where SLR is expected to further reduce the soil storage capacity. To accomplish this, E Sciences monitored groundwater elevations, tidal elevation and rainfall data over a period of twelve months. As part of this study, groundwater levels were compared to tidal conditions to evaluate the correlation between fluctuations in mean tide and mean high water. The data collected was used in conjunction with LiDAR topography to model vulnerability and provide valuable information to assist on future infrastructure planning for the City.



The E Sciences team (including Florida Atlantic University) developed a Soil Capacity Model intended to help identify areas of potential short- and long-term flooding and areas where SLR is expected to reduce unsaturated soil storage capacity further. The results of this model were contoured to provide a spatial representation of flood prone areas.

E Sciences submitted a report to the City presenting our methodology, the results of the study in narrative, charts and graphics, and recommendations. E Sciences presented interim findings of this study at the Water Symposium held by the South Florida Association of Environmental Professionals as part of a presentation titled “Integrating Engineering and Environmental Strategies to Mitigate for, and Adapt to, Climate Change Impacts to Coastal Urban Communities.” We were also requested to be a collaborator and advisor on a research project titled Environmental Finance and Risk Management for Coastal Urban Resilience: Sustainability in South Florida Through Investment-Driven Ecology with the University of Miami, Florida State University, Florida International University and the University of Hawaii.

Since the completion of this city-wide study, the City engaged E Sciences in the evaluation of groundwater elevation trends in the Sunset Harbor neighborhood. E Sciences provided technical training and support to the City on equipment installation and maintenance, data download and evaluation, and modeling efforts.

**SPCC Plans:** E Sciences prepared SPCC Plans for 12 facilities located throughout Miami Beach. These facilities included pump stations, fire stations, public works yard, Miami Beach Golf Club and the Convention Center. E Sciences’ approach for developing the SPCC Plan(s) followed the steps outlined in applicable federal regulations (Title 40 CFR Part 112). The Plans were reviewed and certified by an E Sciences Professional Engineer. We also incorporated provisions to assist the City with compliance with state and local regulations. We conducted the following activities to obtain the information required to complete the Tier I SPCC Plans:

- Review available as-built drawings, surveys and plans related to the structures and drainage pathways
- Conduct a site visit of each facility with a person knowledgeable of the facility’s tank systems, coordinated through the City’s Environmental Department
- Interview the site manager or other personnel familiar with the tank systems and other oil storage systems
- Review records of previous spills
- Evaluate topography and surface water flow regimes
- Evaluate areas of obvious discharge potential and spill sources

- Identify environmentally sensitive areas and potential receptors if a spill were to occur
- Document security measures to prevent unauthorized access to oil handling
- Develop a list of emergency response personnel
- Review the City's spill response measures
- Review records of tank integrity and pressure tests
- Review the City's personnel training records

**Green Waste Facility:** This site was an undeveloped, bermed area located on the east side of the Miami Beach Golf Club. The site was previously used by the City of Miami Beach for solid waste management, and a portion of the area contained buried debris. In anticipation of constructing a wastewater reclamation facility, the City implemented a material screening plan to remove the buried solid waste and screen out the larger (greater than 2-inches) pieces of solid waste for off-site disposal. The recovered screened material (RSM) was merged with a berm around the solid waste handling area to separate it from adjacent properties and the golf course. The larger pieces of debris removed consisted primarily of rock, concrete and wood. Miami-Dade Regulatory and Economic Resources required the City to demonstrate that there was a minimum of two feet of clean fill or other ECs in place covering areas of solid waste in or around the berm in order to pursue regulatory closure for the site.



E Sciences conducted environmental services to evaluate the top two feet of soil layer covering the berm. To complete the project in a time and cost-effective manner, E Sciences developed a phased sampling approach by collecting the necessary samples but conducting laboratory analysis on an iterative basis. The initial sampling results revealed the presence of regulated contaminants above regulatory criteria, therefore additional analysis was not deemed necessary. The City elected to implement an ECs to achieve conditional site closure along with the adjacent golf course property, protecting human health and the environment. E Sciences prepared an EC design and provided oversight and regulatory coordination for the installation of the EC. The design and installation of the EC received regulatory approval, and E Sciences assisted with drafting the restrictive covenant to be used for the final conditional closure.

**Fleet Management Facility:** E Sciences conducted groundwater and soil assessment activities at the active City's fleet management facility. The assessment was completed in order to evaluate the presence of contamination associated with a historical petroleum discharge documented in 1992. This assessment revealed the presence of free-floating product in the groundwater and soil impacts within a localized area at the facility. E Sciences prepared and submitted a Site Assessment Report Addendum (SARA) including source removal plan recommendations. The SARA and source removal plan received regulatory approval from RER. E Sciences recently prepared a Monitoring Only Plan (MOP) as part of a Consent Agreement between RER and the City to maintain certain environmental provisions on the site while waiting to implement cleanup and remediation efforts during the anticipated development of the property. The MOP was approved by RER, and E Sciences is conducting groundwater monitoring in lieu of active remediation.

**Tree Inventory:** E Sciences has completed a six-phase, City-wide inventory encompassing trees on all municipal properties, including streets, parks, government centers, etc. A total of 48,650 trees were inventoried. The work was conducted using sub-meter accurate global positioning equipment. E Sciences provided the City with an ESRI ArcGIS shape file. The work included assessing each tree for its general condition and providing recommendations for maintenance.

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

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

**Groundwater Elevation Monitoring and Mapping Support, Sunset Harbor:** E Sciences assisted the City of Miami Beach with the completion of a groundwater elevation monitoring study in the Sunset Harbor neighborhood. This study was conducted by the City to evaluate the soil storage capacity within this area to support the design and installation of a stormwater management system.

E Sciences provided the City with training and support during installation of the equipment and data collection, data management and modeling efforts. We understand that the City has successfully installed equipment and downloaded data with the assistance of E Sciences personnel.

## City of North Miami Beach General Environmental Engineering Services

### Client:

City of North Miami Beach

### Key Personnel Involved:

Nadia Locke, PE, LEED AP; Rachel Vitek, GISP; Maria Paituvi, PE; Patricia Gertenbach, PG; Matthew White

### Key Subcontractors Involved:

JAEE Environmental, Inc., Ground Hound Detection Services, Inc. and AirQuest

### Similar Types of Projects to Pompano Beach:

GIS Mapping, Data Management, Site Assessments and Site Assessment Report Preparation, Phase I and Phase II ESAs, Monitoring Well Installation, Soils and Groundwater Sampling and Report Preparation, Air Quality Testing and Associated Reports, Asbestos Surveys and Remediation Recommendations and Reimbursement Support Services for Remediation

**Description:** E Sciences maintains a continuing services contract with the City of North Miami Beach to conduct environmental engineering services on an as-needed basis. Through this contract, we have provided the following services to support the City:

- Phase I ESAs
- Compilation of bids for services such as pre-demolition (asbestos, lead paint) surveys and debris removal
- Guidance on requests for off-site sampling
- Attendance and representation at various venues such as City Council and CRA meetings.



In addition, the following projects have been completed to date:

**Taylor Park:** Taylor Park has been slated for redevelopment since 1999, when the FDEP had a Brownfields Assessment conducted. The assessment revealed the presence of metals and petroleum contamination in the soil and metals contamination in the groundwater. In 2005, assessment activities revealed the presence of buried solid waste within most of the 21.8-acre property. Since that time, environmental issues have continued to restrict and complicate redevelopment efforts for the property. The property was previously occupied by an inactive baseball field, a daycare facility, vacant land, and a lake.

In the summer of 2009, E Sciences was contracted by the City to move the assessment, cleanup and redevelopment of the property forward. As a team, E Sciences, the City, and Akerman Senterfitt developed a comprehensive approach to coordinating management of the environmental issues at the site with the redevelopment of the property as a community park. Our approach involved the following:

- Working with Miami-Dade Fire Rescue and the daycare staff to manage the potential methane issues at the property.

- Seeking community input (we conducted two meetings with interested residents).
- Integrating the remedial approach into the master planning process.
- Identifying opportunities for ecological enhancements to the property and water quality improvement for the lake.
- Working with the City to assist in submitting an application for Brownfields Grant for Remediation.

Innovative techniques employed included conducting risk assessment of arsenic impacted areas to the satisfaction of the regulatory agency, geophysical surveys to identify the extent of buried solid waste and evaluating areas with higher concentrations of contaminants to plan for possible source removals. Remediation alternatives proposed included the following:

- Source removal.
- Continuous methane monitoring within the structures on-site.
- Installation of a surface cap to prevent infiltration of stormwater and exposure to buried materials.
- Quarterly methane monitoring at the site perimeter and interior of building.
- Quarterly groundwater monitoring.

E Sciences submitted the assessment and conceptual remedial design to the Miami-Dade County Department of Environmental Resources Management and received approval in 2011.

The City ceased performing additional assessment and remedial actions due to funding limitations. The Miami-Dade County Department of Solid Waste Management (DSWM) has since assumed responsibility for assessment and remediation of the Site. The City and the County are working together to complete the assessment and remediation to accommodate the planned redevelopment of the park. The Site was accepted into Florida's Brownfields Program through execution of a Brownfield Site Rehabilitation Agreement on December 16, 2015. E Sciences completed the remediation of the site and it is now ready for redevelopment.

**Washington Park Soil Testing:** As a precautionary measure and at the City's request, E Sciences conducted soil testing at Washington Park, prior to planning for future redevelopment. Unaware of any spills or releases at the park, the City elected to test the soil in-situ prior to engaging a contractor to evaluate whether the soil required handling as "contaminated". Based on the known use of the property, the analytical scope was selected to include arsenic, pesticides and herbicides. Sampling was limited to the open ground accessible areas of the site. This project was time sensitive and was completed in two weeks from proposal to submittal of findings. This final report was submitted to the City in May 2019.



**Asbestos Removal City Hall 3rd Floor:** As part of the City Hall renovations, the City planned on the removal of the floor tile located within room numbers 301, 302, and 303 and the associated hallways prior to renovation activities. Because the floor tile was old and had the characteristics of typical vinyl asbestos tile, the City suspected that the material contained asbestos and elected to remove it in a prudent manner. The City requested that E Sciences coordinate the following services to be completed by a licensed asbestos consultant and removal contractor: asbestos survey of the flooring to confirm asbestos content; removal of asbestos content if present; conduct on-site asbestos awareness training; air clearance testing and monitoring; and provide documentation of project completion. The final Report of Abatement Oversight and Air Monitoring was submitted to the City in November 2014.

**Stormwater Support Services:** In order to assist the City with their stormwater management and NPDES programs, E Sciences developed three main tasks. The first task was to georeference and digitize the Stormwater Atlas that the City utilized to map their stormwater system. Under this task, E Sciences developed a GIS database converting the Stormwater Atlas (which was in pdf format) into a GIS database and accompanying attribute table; the final database included links to the applicable plan set for each component. The second task completed was the update of the City's 1993 NPDES Operating Manual to meet the new, Third Term NPDES MS4 permit conditions, such as developing SOPs, and developing systems for tracking program components such as maintenance, street sweeping and training. The third task was to develop a citywide stormwater master plan to assist the City with updating existing infrastructure, refining and prioritizing future stormwater infrastructure needs, and reviewing and updating codes (as needed). E Sciences reviewed extensive sources to gather the necessary data to develop a stormwater model and master plan for the City. The Stormwater Master Plan was deferred to a later time when the additional data collection necessary to complete the study could be collected. These services were provided to the City in 2015.



## TCRPC Brownfields Grant Overview

**Client:**  
TCRPC

**Key Personnel Involved:**  
Nadia Locke, PE, LEED AP; Maria Paituvi, PE

**Key Subcontractors Involved:**  
JAEE Environmental, Inc. and Ground Hound Detection Services, Inc.

**Similar Types of Projects to Pompano Beach:**  
Site Assessments and Site Assessment Report Preparation, Phase I and Phase II ESAs, Monitoring Well Installation, Soils and Groundwater Sampling and Report Preparation, Asbestos Surveys and Remediation Recommendations and Reimbursement Support Services for Grants

**Description:** E Sciences provided environmental consulting services in support of the implementation of the TCRPC's Brownfields program funded through EPA assessment grants. In this role, E Sciences conducted Phase I and II Environmental Site Assessments, site assessments and remediation planning. We also supported EPA required reporting to comply with grant provisions. The following highlights some project examples that we completed under this contract.

**Phase I ESA, 101 SW 13th Avenue Delray Beach:** E Sciences conducted Phase I ESA for this property located within the City of Delray CRA to assist the City in the consideration for potential purchase and redevelopment of the property. The completion of a Phase I ESA required a historic site and vicinity land use research, regulatory review and field reconnaissance of the site and surrounding area. The goal of the Phase I assessment was to identify potential sources of environmental contamination that constitute RECs. The Phase I ESA report was prepared in accordance with ASTM International (ASTM), Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13.

**Phase I ESA, 702 NW 6th Avenue Property, Fort Lauderdale:** E Sciences conducted Phase I ESA for this property located in an industrial area in the City of Fort Lauderdale in accordance with ASTM E 1527-13 guidelines. E Sciences also conducted a Tier 1 and non-invasive Tier 2 vapor encroachment screening (VES) in general accordance with the ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (Designation E2600-15). The Site was initially developed with a one-story concrete building in 1956 and it has been used to service high performance automobiles for 50 years. The historic use of the Site as an automotive repair facility for 50 years provides opportunities for inadvertent discharges of petroleum products or solvents at the site over time. While we did not identify reported incidents of discharges to open ground or violations documents with the regulatory agencies, our observations of stained pavement and staining in areas not fully paved indicate that some surface soils are likely impacted by petroleum products. The historic use of a septic tank system during the time of the operation of the automobile shop was considered to provide a potential conduit for liquid products that are put in sinks to enter the environment. A historic inground lift had reportedly been removed from service due to a leak. The leak was described as coming from the aboveground portion of the lift; however, it is considered possible that underground leakage may have gone unnoticed since no assessment or evaluation was conducted. E Sciences did not identify a Vapor Encroachment Condition (VEC) at the site but recommended that the VES be re-evaluated if contamination was later identified at the Site.

**Generic Quality Assurance Project Plan (QAPP):** Under the requirements of the EPA Brownfields Assessment Coalition Grant, when environmental data is collected, TCRPC must comply with 2CFR1500 requirements to develop and implement quality assurance practices sufficient to produce data adequate to meet project objectives and to minimize data loss. EPA must approve a QAPP prior to beginning assessment of each property. E Sciences prepared a Generic QAPP that will be used as a basis for all environmental testing conducted under this grant and therefore included relevant quality assurance information from all consultants and laboratories that will be conducting sampling and analysis on projects under the grant.

**ISD Vacant Lot, NW 37th Avenue and Miami Gardens Drive, Miami Gardens:** This vacant lot has been identified as a redevelopment opportunity for Miami-Dade County. E Sciences completed a Site Assessment Report to assess contamination from this former solid waste disposal facility in July 2017 and Analysis of Brownfields Cleanup Alternatives (ABCA) for the ISD vacant lot owned by Miami-Dade County. We evaluated the feasibility and opinions of costs for three cleanup alternatives to support future redevelopment planning and implementation.

E Sciences also worked with the City of Miami Gardens to incorporate the full property into the designated Brownfield Area (Carol City Area). This designation allows Miami-Dade County, as the property owner to enter into a Brownfield Site Rehabilitation Agreement (BSRA), with the regulatory agency (Miami-Dade County Department of Environmental Resource Management (DERM)) in order to benefit from the regulatory and financial benefits of that brownfield program offers as well as liability protection. The County is in the process of engaging E Sciences to be the design criteria professional for full scale design and implementation of the remedial plan.

**Ballet Florida, 500 Fern Street, West Palm Beach:** The City of West Palm Beach CRA was conducting a Phase I ESA to support potential due diligence activities associated with assisting Ballet Florida, a professional ballet company located in downtown. Based on a review of historical information, the site was previously developed with residences and a variety of commercial and warehouse operations including furniture, telephone and office supply sales, and warehouse as well as telephone repair, the Everglades Club, and a “private laundry”. It was suspected that a portion of the site operated as a private laundry for the Everglades Club in 1920. Despite attempts to obtain additional information from historical societies and the current Everglades Club, the exact nature of the laundry activities could not be confirmed.



The historical review of the site area revealed the presence of large-scale lumber works in the areas east (at least 60 years) and north (at least 30 years) of the site. Lumber storage was identified on historic maps to be as close as 75 feet from the site’s eastern property line. E Sciences identified large areas of open coal storage adjacent to the site, between the property boundary and the railroad tracks to the east.

The assessment revealed the following Recognized Environmental Conditions (RECs) in connection with the Ballet Florida site:

- The historic laundry facility is considered a REC
- The previous lumber operations in the area are considered to be a REC
- The historic open coal storage immediately adjacent to the site is considered a REC

E Sciences recommended a Phase II ESA for this property. However, a Phase II ESA was not conducted. This project was awarded to E Sciences because we were able to respond quickly despite the need for the work to be conducted over the Thanksgiving Holiday. The report was delivered within five business days of email authorization to proceed. This schedule complied with the directive to provide the report as soon as possible.

#### **Seaboard Train Station, 201 Tamarind Boulevard, West Palm Beach**

**Beach:** This Phase I ESA was conducted to support securing financial assistance for pedestrian enhancement for transit riders from the FDOT. This Phase I ESA was not intended to support a real estate transaction, as the City already owned the property. As such, the focus of the assessment was to identify potential environmental issues that may impact the pedestrian enhancement construction project. Historic documentation revealed an old UST located within the right-of-way near the proposed improvements likely attributable to a store historically located on the property and groundwater monitoring wells in other areas of the property.



Because this was not a typical real estate transaction, E Sciences prepared a map of areas of potential contamination to support the design process and recommended that if the proposed construction activities occur in the vicinity of these two potential RECs. The project engineer for the pedestrian enhancement project reviewed the scope of the work to determine how these findings may affect the project. It was also advised that the review be coordinated with an environmental professional who can assess how these potential RECs may affect the construction or design. E Sciences further indicated that environmental impacts can be managed with proper planning in order to inform FDOT that potential contamination issues should not stop the project funding, but rather be a consideration during planning and construction. This project is just one example of E Sciences' ability to work with our clients in removing environmental impediments to redevelopment opportunities.



**Former West Palm Beach City Hall:** West Palm Beach's abandoned City Hall has been identified as the CRA's prime site for redevelopment. It is the City's vision to bid the project to be redeveloped as an urban, waterfront hotel. E Sciences was requested to assess the environmental condition of the site as they prepare for the bidding process. Our services began with a Phase I ESA and we identified numerous historical land activities that could result in contaminated soil and groundwater. Historical land uses included automotive repair facilities with underground storage tanks, laundry facilities, railroad spurs and industrial/manufacturing activities. Using geophysical surveys and overlays of historical land uses onto current aerial photos, we identified our soil and groundwater sampling locations. Following preparation of a Site-Specific QAPP, we implemented a Phase II ESA and then an FDEP rule-compliant Site Assessment Report (SAR). We did not identify groundwater impacts, but soil impacts were detected. The soil impacts are surficial, beneath the parking lot and it is our opinion that they are a result of the weathering of 30 years of asphalt covering, not from a discharge. Following the SAR, we prepared an Analysis of Brownfields Cleanup Alternatives.

**Innovations:** Historically, there has been no vehicle for the regulated community to use reasonable judgment to justify a No Further Action when contaminants are detected on a site but when there is no source of contamination identified. On this project, we are utilizing FDEP's new guidance that allows for us to utilize a "weight of evidence" demonstration that detected parameters are not site-related and do not require remediation. Using the rationale in this document, we are

requesting that in lieu of remediation during site development, soils disturbed and disposed are managed properly under a soil management plan. This will allow redevelopment of the former City Hall property and save about \$1M in unnecessary remediation costs. The EPA and TCRPC featured this project during a trolley tour at the 16th Annual Florida Brownfields Association conference.

Concurrent with the assessment activities, E Sciences prepared another Site-specific QAPP for conducting an asbestos survey. A QAPP for asbestos is unique because it is not really addressed in the Generic QAPP. The EPA project officer indicated that was required only because it was a large asbestos survey. Following EPA approval, our subconsultant conducted a full pre-demolition asbestos survey.

During the asbestos survey, a material mined in Canada associated with asbestos mines (but not asbestos) was identified during review of building plans. This material was similar to vermiculite and was used to fill the holes in the concrete blocks in the walls. We proposed a new sampling protocol with FDEP that was accepted to minimize the number of samples required to be representative of the materials and to keep the material from flowing out of the walls potentially causing a pathway for the material to enter the environment.

## Resumes of Key Personnel

E Sciences has provided resumes of our key professional staff and our subconsultants AirQuest, Intercounty, and QuEST key professional staff for the City's consideration.

### **N**adia Locke, PE, LEED AP Contract / Project Manager

Ms. Locke has been providing professional environmental and engineering consulting services for over 30 years. During her career, she has worked in many facets of environmental consulting including environmental audits, site assessment and remediation, stormwater design, sanitary sewer planning, environmental permitting, climate change impact evaluation, grant assistance, wetland mitigation design, endangered species relocations, Brownfields, community involvement, and training. Ms. Locke has provided litigation support for the FDOT, Miami-Dade Aviation Department, Barry University and private entities.

Ms. Locke is former Chair/President of the Smart Growth Partnership (SGP), Florida Brownfields Association (FBA) and South Florida Association of Environmental Professionals. She served as a commission-appointee to the Broward County Brownfields Redevelopment Task Force and on the Community Advisory Board for the Broward County MPO. She also served as FBA Secretary, Co-Chair of the 17th Annual Conference and Co-Chair of the Technical Subcommittee of the Legislative and Policy Committee. She serves on the Fort Lauderdale Riverwalk Advisory Board.

Ms. Locke specializes in managing municipal contracts, having experience with multiple southeast Florida cities such as Pompano, Miami Beach, Fort Lauderdale and Hollywood.

She has been engaged in Brownfields since the inception of the program and has been conducting Phase I environmental site assessments, contamination assessment and remediation in Florida since the late 1980s. Her work for both the public and private sectors provides her with a unique understanding and practical approach to implementing cleanups both inside and outside of the Brownfields program. She has conducted public involvement and outreach on a variety of projects and on behalf of community or non-profit organizations such as the FBA and SGP. Ms. Locke is on the Board of FBA Environmental Justice Foundation.

Ms. Locke has been working on transportation projects in South Florida for over 20 years. As an engineer who works closely with scientists, she brings an understanding of the environmental, ecological and permitting issues associated with roadway design, construction and commitments. She has worked with several cities, including the City of Pompano Beach in preparing environmental documents for FDOT funded LAP projects.

She has been working on stormwater management projects in South Florida for over 15 years. As an engineer who works closely with scientists, she brings an understanding of the environmental, ecological and permitting issues associated with infrastructure design, construction and commitments. Ms. Locke has supported E Sciences stormwater master planning and NPDES permit compliance support projects for FDOT and local governments.

#### **Education**

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

#### **Professional Licenses / Certifications**

Professional Engineer: FL-58676

LEED AP Neighborhood Development

Certified FDEP Stormwater, Erosion and  
Sedimentation Control Inspector and  
Instructor

OSHA 40 Hour HAZWOPER / 8 Hour Site  
Supervisor

NAUI/PADI Advanced Open Water Diver

**Years of Experience 32**

## Project Experience

**Continuing Contract for Environmental Engineering Services, City of Pompano Beach Pompano Beach CRA, Broward County, Florida** — Ms. Locke is the contract manager for this continuing services contract. Through this contract, E Sciences has conducted Phase I and Phase II ESAs for several parcels in preparation for the CRA's redevelopment planning. She has worked with the CRA to consider options on how to safely manage construction on a solid waste disposal site and is preparing has prepared environmental documentation to satisfy NEPA requirements on a federally funded LAP project. E Sciences also evaluated the suitability of three vacant, CRA-owned parcels for use as community garden for the local school. The community garden will be used to teach children about agriculture and healthy food choices. Vegetables grown on these lots will be used to provide fresh vegetables for families and children in the community. Under this contract E Sciences prepared environmental information and documentation to satisfy Health Resources and Services Administration grant application requirements. The project was conducted to support the potential redevelopment of CRA parcels with a much-needed community health care facility. The documentation was required for the grant applicant to comply with NEPA.

**Environmental Review and Permitting for LAP Project for NW 36th Avenue Pedestrian Enhancement Project, Pompano Beach, Florida** — Ms. Locke is the senior technical reviewer for conducting an environmental screening memo and environmental permitting for this FDOT-funded bicycle and pedestrian enhancement project. As part of the review, E Sciences is preparing the environmental notes to be included in the constructability.

**Old Pompano Improvements NEPA Review, Pompano Beach, Florida** — Ms. Locke was the project manager for preparing the environmental documents necessary for the City of Pompano Beach to apply for funding under the HUD for the area improvements for Old Pompano. The Old Pompano project area was first settled in the late 1800s with the extension of Henry Flagler's Florida East Coast (FEC) Railroad. The area was built to its current configuration during the early 1900s and has not been upgraded since that time. The existing infrastructure has become debilitated and is in need of repair or replacement. The purpose of the project is to revitalize the downtown area; the existing streets and avenues chosen for this project comprise the central core of Old Pompano. In addition, the streetscape design and specific infrastructure improvements were selected to continue and complement efforts in the Community Redevelopment Area neighboring the west side of the project. E Sciences' scope of services included preparation of an Environmental Assessment of the area in accordance with HUD guidelines and subcontracting a Cultural Resources Assessment to address Section 106 requirements.

**General Environmental Engineering Services, City of Fort Lauderdale, Broward County, Florida** — Ms. Locke is the contract manager for this continuing services contract for general environmental engineering consulting services for the City of Fort Lauderdale. Services conducted include emergency response during construction of a fire station; Phase I and Phase II ESAs / opinion of post landfill closure costs; endangered species surveys; burrowing owl permitting and relocation; benthic (seagrass) surveys; and indoor air quality / asbestos surveys. Some services have been provided to assist in ensuring environmental compliance for LAP projects.

**Sistrunk Boulevard Streetscape and Enhancement, City of Fort Lauderdale, Broward County, Florida** — Originally slated as a stimulus project where funds were being disbursed through FDOT District Four, Ms. Locke conducted a Level 2 assessment of a 1.25-mile corridor streetscape enhancement project located in the heart of the City of Fort Lauderdale CRA. Testing included Maintenance of Traffic, private utility location and collection of 36 soil and groundwater samples for laboratory analysis. Data was compiled and reported, and environmental notes/bid specification language was developed for bidding purposes. Ms. Locke also engaged the CRA in avoidance and minimization considerations and assisted the CRA with managing risks associated with environmental issues during construction.

**Shenandoah Neighborhood Replacement of Water Mains and Service Conversions, City of Miami, Miami-Dade County, Florida** — E Sciences provided environmental support for the design-build team for this project. Environmental services included a review of contamination and testing soil and groundwater impacts, tree conflict surveys, stormwater pollution plan development and permitting assistance. Ms. Locke provided leadership and technical oversight.

**Design Build SR-9/I-95 Express Lanes and Ramp Signals-Phase 3A-1, FDOT District Four, Florida** — Ms. Locke is the project manager for the environmental tasks associated with this design-build project. Under this scope, E Sciences provides assistance with permit modifications, contamination review, wetland impact analysis and dewatering permitting. E Sciences conducted the analysis and prepared the permitting documents so that dewatering could be performed under District Four's Master Dewatering Permit.

**Sullivan Park Master Planning and Expansion, Deerfield Beach, Florida** — E Sciences' scope for this contract included conducting a Benthic Resources Survey and providing the project team with a summary of permits that would be needed to redevelop the park as part of the master planning. Following the master planning, E Sciences prepared the environmental permit documentation for the project. Ms. Locke provided technical oversight on this contract.

**Adams Street Site Supplemental and Site Assessment, City of Hollywood, Broward County, Florida** — The Hollywood CRA wishes to divest itself of this property because it has excellent potential for redevelopment. It is adjacent to a planned new redevelopment, that will consist of three buildings along Adams Street, each operating as its own urban village for seniors with amenities such as a community meeting room, cyber café, fitness/wellness facility, and outdoor patio. While this site was initially intended to be included in this project, the presence of contamination documented during due diligence resulted in it being carved out of the redevelopment planning. Ms. Locke was the project manager for supplemental assessment activities to further evaluate the contamination impacts, determine if the impacts had migrated off-site and identify remedial options. E Sciences conducted an initial assessment to achieve these goals and subsequently completed a site assessment report for agency submittal. Ms. Locke presented the findings and provided recommendations for regulatory closure and pursuit of Brownfields designation at a CRA Board meeting. We provided a list of the benefits and challenges, costs and times for multiple options.

**General Environmental Engineering Services, City of Miami Beach, Miami-Dade County, Florida** — Ms. Locke is the contract manager for an ongoing contract to conduct miscellaneous environmental services. Tasks conducted to date include preparation of spill prevention control and countermeasure plans for 12 facilities including pump stations, fire stations, public works yard, Miami Beach Golf Club and the Convention Center (MBCC) and contamination assessment of the green waste facility. E Sciences is supporting the City in seeking conditional closure for contamination issues at a former solid waste facility and golf course, their fleet management facility and the MBCC. We also completed a study to evaluate a potential mooring field and have several ongoing environmental permitting projects for seawalls and the City's Baywalk. Ms. Locke is either providing project management or QA/QC on the City of Miami Beach projects.

**Corridor Study for SR-5/US-1/South Dixie Highway, FDOT District Six, Florida** — Ms. Locke was the project manager for the environmental study portion of this study. E Sciences prepared a planning level document that outlined potential project impacts related to environmentally sensitive and natural resources as well as potential contamination impacts to the project.

**Boynton Inlet Dredging Project, Palm Beach County, Florida** — Ms. Locke was the project manager for the environmental monitoring that E Sciences conducted for this dredging project. E Sciences staff conducted turbidity monitoring around the dredge and spoil disposition site locations. At times, we provided staff 24 hours per day to help keep the project on schedule. Daily monitoring reports were provided to FDEP within 24 hours of the monitoring event.

**TCRPC Brownfields Assessment and Remediation Services, Florida** — Ms. Locke manages E Sciences' contract with the TCRPC for conducting assessment and remediation services as part of an EPA Brownfield Assessment and Cleanup Grants. This contract focused on Phase I and Phase II Environmental Site Assessments and cleanup planning/estimating. Projects Ms. Locke has completed included Phase I and II ESAs for multiple properties within the City of West Palm Beach and their CRA. A notable project is the hallmark Former City Hall Building that has been recently bid for purchase and redevelopment. This project included Phase I and Phase II ESAs, a Site Assessment Report, Analysis of Brownfields Cleanup, and a Soil Management Plan. E Sciences is working directly with the CRA on a strategy to manage the environmental aspects of the project during the bidding and construction phase of the project now that the TCRPC grant has ended.

**General Environmental Engineering Services, City of North Miami Beach, Miami-Dade County, Florida** — Ms. Locke, as contract manager, provides ongoing environmental support to the City. She has conducted several Phase I ESAs for the City. Ms. Locke has held community meetings and represented the City at CRA and City Council meetings. One notable project is Taylor Park. **Taylor Park** has been slated for redevelopment since 1999, when FDEP had their contractor conduct a Brownfields Assessment of the site. The assessment revealed the presence of metals and petroleum constituents in the soil and metals in the groundwater. Assessment activities revealed the presence of buried solid waste on most of the property. Since that time, regulatory issues continued to restrict and complicate redevelopment efforts for the property. She was the engineer of record and project manager for the assessment and conceptual remediation design for the property. The remediation planning was closely coordinated with the community desires, the City's needs and the park master planners to ensure a solution to remedy the environmental issues in conjunction with all of the stakeholder needs. Ms. Locke provided QA/QC reviews on E Sciences' efforts to prepare a stormwater master plan and digitize their stormwater atlases.

**Private Brownfield Redevelopment, City of Fort Pierce, St. Lucie County, Florida** — This project was the first designated Brownfield site in the City of Fort Pierce. This historical dry cleaner was identified during a Phase I ESA for a real estate transaction. Since the FDEP "started the clock" for the assessment due date back when the Phase II ESA was conducted, the time frame for submittal of the initial site assessment was shortened by three months. Technologies employed included ColorTech screening, modified active gas assessment techniques, on-site laboratory analysis, direct push drilling and microwells. An interim source removal was conducted to facilitate and accelerate the groundwater remediation. Ms. Locke negotiated an alternative cleanup target level for soils and implemented two technologies for remediating groundwater. She applied this information into the development of a remedial action plan. Ms. Locke supported the Brownfields designation process by presenting at a neighborhood public meeting and representing the owner at the City Commission meeting when the site was designated.

**Broward County Mass Transit Copans Road Facility, Broward County, Florida** — Ms. Locke provided environmental oversight and reporting on this project, which was the largest UST system upgrade project in the State of Florida. The project included upgrade of a fueling system with 13 USTs and a combined total volume of 392,000 gallons. The upgrade also includes hundreds of feet of used oil piping within the bus maintenance building. Ms. Locke also negotiated \$50,000 reimbursement funding for the project under the State of Florida's Limited Source Removal Initiative. Prior to the upgrade, the scope included conducting a baseline assessment of the groundwater contaminant concentrations and support the bidding process for the design build project. The baseline assessment was designed to provide justification for state funding for residual petroleum impacts around the USTs and to aid in planning the management of impacted soil and groundwater during the UST replacement. While working on the baseline assessment, a fuel delivery resulted in an off-site diesel fuel discharge. Ms. Locke provided the county with guidance on how to abate the source, reduce potential third party liability, and assisted with negotiating an off-site access agreement. Ms. Locke then conducted a limited contamination assessment to satisfy the regulatory requirements.

**M**aria Paituvi, PE  
**Project Manager / Senior Engineer**  
**Task Lead Environmental Testing and Remediation**

Ms. Paituvi has extensive experience in environmental consulting including environmental assessment and remediation of contaminated sites, as well as industrial wastewater permitting, environmental compliance, and stormwater permit review and renewal. She has actively collaborated on site investigation and environmental assessments, remedial action planning and design. She is experienced in data validation, interpretation and reporting, and regulatory compliance. As a project manager, Ms. Paituvi is responsible for cost estimating and tracking, task scheduling and timely completion of projects. From the various and numerous project experience, she has gained practical experience in environmental field investigation, , construction planning and oversight, development planning, remediation system installation and operation, and regulatory compliance.

**Education**

B.S., Environmental Engineering Sciences,  
 University of Florida, 2005

**Professional Licenses / Certifications**

Florida Professional Engineer  
 License No. 73008

OSHA 40 Hour Hazardous Waste  
 Operations and Emergency Response

Certified FDEP Stormwater, Erosion and  
 Sedimentation Control Inspector No. 27077

**Years of Experience 14**

**Project Experience**

**Sports Complex/Sabal Golf Course Brownfield, City of Pompano Beach, Broward County, Florida** — This former golf course was assessed by others under a TCRPC Brownfields grant. Following completion of the grant-funded activities, the City of Pompano Beach engaged E Sciences to conduct the cleanup activities. Using the historic assessment information, E Sciences conducted additional assessment and assisted the City with hiring a contractor to implement the remediation. E Sciences provided consulting and oversight throughout the remedial activities along with the follow up regulatory coordination and reporting. This \$1M cleanup was completed within two months. Ms. Paituvi was the project manager and prepared the regulatory submittals that were accepted by the regulatory agency. The project is approved for conditional closure based on the completion of the remedial scope proposed by E Sciences and impact delineation.

**Atlantic Avenue and Dixie Highway Parcels Environmental Assessments, City of Pompano Beach, Broward County, Florida** — E Sciences conducted a Phase I ESA at the site and discovered RECs associated with the historical use of the site and adjacent properties. E Sciences conducted Phase II ESA activities at the site based on the Phase I ESA findings including a geophysical survey, soil and groundwater sampling and excavation of test pits. The test pits revealed the presence of buried debris at the site. Soil assessment revealed the presence of localized contamination at the site based on the limited nature of the Phase II ESA. Ms. Paituvi actively collaborated in the development of the Phase II ESA plan, coordination of field activities and data evaluation. She prepared a Phase I and II ESA presenting the findings and conclusions of the combined Phase I and II ESAs and examples of construction and design considerations to be factored in the development planning at the site.

**Community Gardens Parcels Groundwater Testing, City of Pompano Beach, Broward County, Florida** — E Sciences was engaged by the City of Pompano Beach CRA to conduct soil and groundwater sampling at three adjoining CRA properties. The purpose of the sampling was to assist the CRA on evaluating the suitability of three parcels for use as community gardens for a local school. Due to the lack of knowledge of specific contaminant sources and the lack of historical land use knowledge, a general soil sampling approach following ISM was implemented. This is a newly accepted methodology. Ms. Paituvi coordinated and oversaw the soil and groundwater sampling activities. She prepared the report presenting our findings to the CRA and offering recommendations for the construction of the community gardens based on the analytical results documented.

**Blanche Ely and Adjacent Parcels Study, City of Pompano Beach CRA, Broward County, Florida** — A Phase I ESA was conducted at this property owned by the Pompano CRA. The CRA planned to redevelop this vacant land for commercial and residential use. Ms. Paituvi conducted the Phase I ESA research, site visit and prepared the Phase I ESA report. The Phase I ESA revealed the potential presence of contamination associated with the historical use of the site and adjacent properties. Under supervision of the assigned professional engineer, she developed a Phase II ESA assessment plan. The Phase II ESA included a geophysical survey, soil screening, soil sampling and groundwater sampling activities at specific locations in order to confirm the presence or absence of contamination associated with the identified RECs at the site. Ms. Paituvi coordinated project activities, evaluated data and prepared a Phase II ESA report including findings and conditions. The Phase II ESA revealed the potential presence of a “leading edge” of an offsite contamination plume. Based on the findings, she assisted in drafting recommendations regarding construction and redevelopment activities at the site.

**Belle Two Commerce Property and Adjacent Parcel Study, City of Pompano Beach, Broward County, Florida** — E Sciences conducted a Phase I ESA at this property in order to assist the Pompano Beach CRA in the evaluation of the potential purchase of the site. Ms. Paituvi conducted a Phase I ESA including database and record review, site visit, interviews and report preparation. The Phase I ESA revealed the historic presence of a fueling station onsite and a suspicious presence of a manhole at the site. The Phase II ESA included a geophysical survey, soil screening, and soil and groundwater sampling activities. During Phase II ESA, an abandoned UST was discovered at the site. Ms. Paituvi coordinated investigation activities to characterize the UST and its contents and provide the CRA with regulatory guidance regarding this discovery. The tank was determined to contain heating oil and to be associated with a former restaurant at that location.

**Marlins Park Garages and Surface Parking, City of Miami, Miami-Dade County, Florida** — The City of Miami is seeking regulatory closure for the Marlins Stadium parking lots and garages. Arsenic contamination had been documented across these lots and required the implementation of a Soil Management Plan during construction completed in 2016. E Sciences was engaged by the City to prepare the required regulatory submittals to pursue regulatory closure. Ms. Paituvi has reviewed extensive regulatory documentation and prepared an EC report and ECMP certifying the presence of the required cover across the parking lots and garages. Ms. Paituvi is finalizing the survey reports to incorporate into the ECMP for submittal to DERM.

**Miami Beach Convention Center Brownfield, City of Miami Beach, Miami-Dade County, Florida** — In preparation of development of City-owned properties associated with the redevelopment of the Miami Beach Convention Center, E Sciences conducted a Phase I ESA for several parcels of land. These parcels included a parking lot west of the convention center and the 21st Street Community Center and Bandshell north of the convention center. The Phase I ESA revealed the historic operation of a golf course on the project sites. This finding was identified as a REC based on the potential historical application of herbicides and pesticides on the ground. A Phase II ESA revealed soil and groundwater contamination. The City elected to implement an EC and source removal efforts as part of the development plan. E Sciences is currently implementing an area wide assessment and regulatory closure strategy of the golf course that incorporates the convention center and multiple adjacent sites. Ms. Paituvi is managing the assessment activities and has prepared a Site Assessment Plan submitted to DERM in order to gain their approval prior to conducting extensive and intensive assessment activities in this busy area of the City. She also incorporated historical information, an alternative composite sampling approach and consideration for existing conditions and exposure risks into the sampling plan to provide a practical yet comprehensive scope to conduct the area-wide assessment.

**NPDES MS4 Permit Implementation and Coordination, FDOT District Four, Florida** — In accordance with FDOT District Four Phase I and Phase II MS4 NPDES permits, E Sciences conducts inspections of stormwater treatment facilities and outfalls to identify and document current conditions and functional defects. This includes the review of as-

built plans and the SFWMD Environmental Resource Permits is necessary. Ms. Paituvi conducts peer review of deliverables of inspection results for submittal to FDOT District Four.

**Former West Palm Beach City Hall Environmental Assessment, City of West Palm Beach, Palm Beach County, Florida** — The City of West Palm Beach relocated to a new location leaving the former location as a prime redevelopment spot in downtown. The City obtained grant funding from the TCRPC Brownfields Coalition Grant to conduct site assessment and asbestos surveying activities. The historic property was home to multiple potential sources of contamination, as is common with older urban areas. Historic land uses included gasoline stations, railroad tracks, cleaners, ice manufacturing and automotive repair facilities identified during a Phase I ESA. Ms. Paituvi developed and implemented a Phase II ESA sampling scope to evaluate the potential presence of soil and groundwater contamination at this site. Based on the results of the Phase II ESA, it was soil contamination was identified at the site. Using a “weight of evidence” approach, E Sciences demonstrated to the FDEP that contamination at the site was a result of being in urban setting and not site related. Ms. Paituvi prepared a Soil Management Plan (SMP) to be implemented during development activities at the site as an alternative to remediation. FDEP approved of the SMP and no further assessment or remediation was required at the site.

**Environmental Engineering Services, Islamorada, Village of Islands, Monroe County, Florida** — Ms. Paituvi conducts reviews of designs of stormwater management systems and drainage plans that are submitted to the Village for development, redevelopment or modifications to existing developments. She completed reviews of the stormwater calculations and design to evaluate if the overall stormwater management plan is substantially consistent with the Village’s stormwater management regulations and Stormwater Design Criteria Technical Manual. Formal review letters provide the results of this review.

**Environmental Engineering Continuing Services, City of Miami Beach, Miami-Dade County, Florida** — E Sciences was engaged by the City of Miami Beach to conduct a Limited Site Assessment for the Fleet Management Facility in order to evaluate the presence of contamination associated with a historical discharge from the hydraulic lift pumps at the Site. Ms. Paituvi served as the project manager for this assessment. As part of the scope, she developed an assessment plan, provided field support and prepared a Supplemental Site Assessment Report (SSAR) for regulatory submittal to the Miami-Dade RER. Assessment included soil screening, sampling and analysis and groundwater sampling and analysis. County approved the SSAR and requested that the presence of free product documented at the site be addressed. Ms. Paituvi provided guidance and recommendations to the City regarding future actions

**EC Inspections and Reporting, City of Miami, Miami-Dade County, Florida** — The City of Miami installed EC to address the presence of buried debris and contaminated soil in 11 parks. The ECs are intended to prevent exposure to contaminated media. E Sciences conducts monthly visits to document the condition of the EC in each park. The inspections are conducted in accordance with EC Plans approved by the County. The observations documented are used to determine the necessary corrective actions to ensure the integrity of the EC. Ms. Paituvi reviews inspections forms and photographic documentation for quarterly submittal to DERM.

**SW 7th Street and SW 8th Street from Brickell to SW 27th Project Development and Environment (PD&E) Study, FDOT District Six, Miami-Dade County, Florida** — Ms. Paituvi is the project manager for the PD&E Study of one of the City of Miami’s most iconic roadways known as Calle Ocho. Issues to be addressed as part of the study include roosting surveys of the federally endangered Bonneted Bat, numerous historic sites, several parks, community involvement, benthic survey and evaluation of water quality associated with this roadway improvement project.

## **P**eter Partlow, PE QA/QC

Mr. Partlow is a Principal Engineer with E Sciences. He has experience on a variety of environmental and engineering related projects. His key strengths are in the areas of project management and oversight in addition to QA/QC. His technical expertise includes wastewater collection system and treatment system design and construction; contamination assessment; remediation; potable water and wastewater treatment; water resources and water quality; and project management. Project experience includes water resources and water quality studies and designs, hydrologic enhancement for mitigation banking projects, potable water and wastewater projects such as design, operations and maintenance, development feasibility analysis, and construction administration for municipal and industrial clients.

### **Education**

MBA, University of Central Florida, 1995  
BS, Environmental Engineering,  
University of Central Florida, 1988

### **Professional Licenses / Certifications**

Registered Professional Engineer, Florida  
#47670

NASDS/PADI Basic & Open Water SCUBA  
OSHA 40 Hour HAZWOPER/ 8 Hour Site  
Supervisor

**Years of Experience 31**

Mr. Partlow has extensive experience in the assessment of social, cultural, land use, economic and environmental issues as related to roadway projects, construction and development. Mr. Partlow has managed the research, analysis and documentation necessary for projects of all types, including providing support for environmental assessments or environmental impact statements as appropriate to satisfy the requirements of the NEPA and/or other related Federal and State environmental laws and regulations.

In addition, Mr. Partlow has managed and participated on several construction management projects. These projects include modifications and additions to several 1.0 to 2.0 MGD wastewater treatment plants, management of remedial systems installations for the remediation of contaminated soil and ground water, and construction of an airscrubber system.

### **Project Experience**

**Greynolds Park Renovations and Preliminary Evaluation Report, North Miami Beach, Miami-Dade County, Florida** — This park is currently owned by Miami-Dade County and is used as a recreational park housing a variety of amenities, including a man-made lagoon and bird rookery. The intended hydrologic function of the park was based on historic tidal influences on the man-made lagoon and rookery. Anthropogenic and weather events have resulted in reduced water quality and aesthetics as well as degraded foraging and breeding habitat for birds which discouraged recreational use of the park. Stagnant water and flooding are also hydrological impairments at the park. This project was developed to identify issues that must be addressed to return the ecosystem to a more naturally productive state and improve the beneficial use of the park by enhancing and restoring the diminished hydrologic and biological function of the rookery. Mr. Partlow provided principal engineering design support for dredging and grading to restore the hydrologic conditions in the park.

**River Oaks Preserve, City of Fort Lauderdale, Broward County, Florida** — Mr. Partlow provided QA/QC for this project. E Sciences teamed with Consul-Tech for this project to assist with the master plan design to include wetland delineation, tree survey, preliminary wetland design and permitting support for the River Oaks project. This community is one of the oldest in the City of Fort Lauderdale and has been subject to repetitive flooding due to prior development that did not include stormwater control and the blockage of an outfall that historically drained the area.

**Vizcaya Southern Lagoon & Northern Canal Tidal Swamp Landscape Environmental Restoration, Miami-Dade County, Florida** — Mr. Partlow provided senior and principal engineering services for the Vizcaya Gardens and Museum, built in 1915 by Industrialist James Deering. This site was acquired in 1952 by Miami-Dade County and is a U.S. Historic National Landmark site. Devastation from Hurricanes Wilma and Katrina in 2005 wreaked havoc on the gardens and grounds, designed for Deering by the Columbian Landscape Architect Diego Suarez, resulting in debris and sedimentation blockages in the canal and tidal pond system that connects to Biscayne Bay. Nuisance and exotic species infestations, and declining water quality from a loss of tidal flushing resulted in a loss of fish and wading bird usage of the gardens and waterways. Rare coastal hammock hardwood forest habitat was also destroyed. E Sciences developed design plans to dredge the south canal at Vizcaya. A collapsed retaining wall at the mouth of the south canal, in addition to encroachment of mangroves and other emergent wetland vegetation, through the deposition of organic material and the capturing of sediments by their roots, resulted in interruptions to the intended tidal fluctuations within the canal. E Sciences applied for a Class I Permit from Miami-Dade County Regulatory and Economic Resources Department, a permit exemption from the Florida Department of Environmental Protection and a Letter of Permission from the U.S. Army Corp of Engineers to conduct maintenance dredging activities involving the removal of approximately 1,410 cubic yards of silt and sediments from the bottom of the canal. The objective of this project was to enhance and restore lost hydrologic and biological functions to the canal.

**City of Orlando Environmental Assessment, Testing and Remediation, Orange County, Florida** — E Sciences provided environmental assessment, testing and remediation consulting services on a continuing contract basis. E Sciences provided environmental assessment, testing and remediation consulting services on a continuing contract basis. The scope of services for this contract included Phase I Environmental Assessments, litigation support services, asbestos surveys and abatement, mold sampling and noise studies. Mr. Partlow provided QA/QC and principal review on this contract.

**Volusia County Environmental and Hydrogeological Continuing Services, Volusia County, Florida** — E Sciences is provided professional hydrogeological and environmental services that include Phase I and Phase II ESAs, asbestos surveys, contamination assessment and clean-up of sites, contamination assessment and clean-up of non-petroleum and petroleum contaminated sites, under-ground and above-ground Storage Tank Closures, Remedial Action Plan development and implementation, remedial system operation and maintenance, Stormwater Pollution Prevention Plan (SWPPP) and SPCC, and other related work as required. Mr. Partlow provided QA/QC and principal review for this contract.

**Highlands Avenue Parking Lot Stormwater Improvement, City of Melbourne, Brevard County, Florida** — Mr. Partlow provided senior engineering oversight for the redesign of the Highlands Avenue Parking Lot. E Sciences studied the site and developed a design that used PaveDrain™ blocks as a pervious parking lot surface over a gravel infiltration basin. The infiltration basin was designed with extra capacity to allow for the intake of stormwater runoff from adjacent buildings and roadways. A \$103,000 TMDL Grant was awarded to the City of Melbourne for this project by FDEP. Additional savings in design costs were also achieved by the use of the “10-2” self-certification permit under the new State-Wide Environmental Resource Permit criteria.

**Stormwater Quality Master Plan, City of Melbourne, Brevard County, Florida** — Mr. Partlow provided senior engineering services for the stormwater quality master plan that included an environmental regulatory assessment, pollutant load modeling and analysis, stormwater infrastructure mapping, development of over 50 innovative water quality Best Management Practices (BMPs) projects and project prioritization recommendations in an effort to reduce pollutant loading to the Indian River Lagoon. Water quality projects took advantage of funding opportunities including project cost sharing and State grant programs.

## **G**ayle Stone, MS Senior Scientist / Task Lead Ecological Services

Ms. Stone is an environmental consultant and ecologist. Her main areas of expertise include preparation of NEPA documents, wetland delineations, wetland functional assessments, protected species surveys and environmental permitting. She has participated in numerous PD&E Studies for the FDOT and performed Environmental Assessments and Categorical Exclusions for municipalities, city housing authorities, community redevelopment agencies and county transportation agencies. Her additional project experience includes benthic/seagrass surveys, bird surveys, tree surveys, wetland and wildlife monitoring and construction permit compliance inspections.

### Education

MS, Marine Biology, Nova Southeastern University, Fort Lauderdale, Florida, 1997  
BA, Biology and Music Double Major, Skidmore College, Saratoga Springs, New York, 1987

### Professional Licenses / Certifications

PADI Scuba Certified No. 9111278063

Years of Experience 26

### Project Experience

**Community and Family Health Center, City of Pompano Beach, Broward County, Florida** — Ms. Stone completed the Environmental Information and Documentation Checklist in support of obtaining a federal grant from the U.S. Department of Health and Human Services, Health Resources and Services Administration for construction of a new health care center in this transit-oriented Community Redevelopment Area.

**Martin Luther King, Jr. Boulevard Environmental Review, Broward County, Florida** — Ms. Stone completed the Type I and Programmatic Categorical Exclusion (CE) Checklist and CE Memo for this streetscape improvement project between NW 31st Avenue and Powerline Road. This project is one segment of a planned, multi-city education corridor partially funded through the FDOT LAP. The environmental review included coordination with the State Historic Preservation Office regarding a potentially historic site and an inventory of community and cultural resources. Ms. Stone also assisted with the preparation of letter mailings to residents and businesses along the project corridor for public involvement.

**Marine Patrol Dock Repair Environmental Permitting, City of Miami Beach, Miami-Dade County, Florida** — The City of Miami Beach contracted with E Sciences to provide environmental permitting support services for repair of the docks used by the City's Marine Patrol. The project involved spall and crack repair of the pile caps and repair or in-kind replacement of the concrete decking. The docks are located in Maurice Gibb Memorial Park and include an additional dock and boat ramp available to the public. Ms. Stone acquired a Nationwide Permit from the USACE, a permit exemption letter from the FDEP and a Class I Coastal Construction Permit from Miami-Dade County RER. She also assisted the City with pre-construction notices to the regulatory agencies.

**Tarpon River Restoration, City of Fort Lauderdale, Broward County, Florida** — E Sciences has been engaged by the City of Fort Lauderdale to develop a restoration plan for sediment/debris removal (dredging) following wastewater discharges into the Tarpon River. Ms. Stone coordinated with the environmental regulatory agencies and advised on the requirements for environmental permitting, including justification for maintenance dredging, overseeing design and methods for a benthic/seagrass survey using video, and development of a dredging plan, including measures for turbidity control and protected species. A Letter of Permission from the USACE, a Maintenance Dredging Exemption from FDEP and an Environmental Resource License from Broward County Environmental Protection and Growth Management Department will be acquired for the restoration.

**Carl Fisher Seawall State Permitting Support, City of Miami Beach, Miami-Dade County, Florida** — The Carl Fisher Clubhouse was constructed in 1916 and is the oldest public standing structure in Miami Beach. It is on the National Register of Historic Places and is a locally designated historic structure. As part of the restoration of the Clubhouse, the City also needed to repair the seawall on Collins Canal to protect this historic resource. The seawall

was severely deteriorated, and mangroves had recruited to the area. Ms. Stone performed a field assessment and a Wetland Assessment Technique for Environmental Review of the impacted mangrove area with the SFWMD. In addition, a Cumulative Impact Assessment of the mangroves in the SFWMD Biscayne Bay drainage basin was conducted because mitigation for mangrove impacts was proposed outside the basin in which the impacts were proposed to occur. She acquired an Environmental Resource Permit from SFWMD, which required coordination with the State Division of Historical Resources and reservation of saltwater mitigation credits from Everglades Mitigation Bank.

**Mooring Field Feasibility Study, City of Miami Beach, Miami-Dade County, Florida** — The City of Miami Beach has become a popular destination for boaters and Sunset Harbour, located between Maurice Gibb Memorial Park and Belle Isle, has experienced increased unregulated anchorage in recent years. The City wishes to establish a mooring field in the area to regulate anchoring and thereby improve water quality. Biscayne Bay is an Aquatic Preserve, an Outstanding Florida Water and designated Critical Habitat for Johnson's seagrass, a federally threatened species. As part of the preliminary evaluation, Ms. Stone performed a reconnaissance benthic survey of the area and documented the regulatory permits required along with design and operational criteria of a managed mooring field.

**Baywalk Permitting and Environmental Engineering Services, City of Miami Beach, Miami-Dade County, Florida** — Ms. Stone is responsible for preparing and processing the environmental permit applications and coordinating with the engineering subconsultants and the City. The proposed project is a pedestrian walkway over water on Biscayne Bay from the 10th Street City right-of-way to 12th Street. Initially, Ms. Stone led the team of marine biologists in performing a detailed seagrass survey. She prepared the Environmental Summary Report, which included maps of the seagrass beds observed, impacts to each seagrass bed from installation of pilings and impacts to each seagrass bed from the grated, elevated walkway. The Report also included a functional assessment using the Uniform Mitigation Assessment Method, a protected species and habitat evaluation, and an avoidance and minimization discussion. She compiled the supporting documentation for the permit application packages, including ownership and consent documents from the three adjoining properties, and prepared the Federal, State and Miami-Dade County permit applications.

**Bay Crossing Permitting for Beach Corridor Rapid Transit Project, Miami-Dade County, Florida** — This project involves a new, elevated, rapid-transit connection from Miami to Miami Beach on the south side of MacArthur Causeway, called the Beach Corridor Bay Crossing. E Sciences was tasked with acquiring environmental permits for construction of the Bay Crossing to advance this segment of the Beach Corridor. The Bay Crossing includes two bridges over federal channels and the U.S. Coast Guard (USCG) was identified as the lead federal agency for the permits due to the bridge crossings. Ms. Stone prepared an Environmental Assessment to fulfill USCG NEPA requirements and submitted two Bridge Permit Application packages to the USCG. In addition, Ms. Stone was a lead reviewer for the Environmental Permit Report that detailed impacts to seagrass, corals, threatened and endangered species and essential fish habitat. Extensive coordination with permitting and commenting agencies was conducted, including USACE, National Marine Fisheries Service, RER and SFWMD to determine mitigation for seagrass and coral impacts.

## **P**atrick Shearer, PE Senior Engineer / Task Lead Engineering Services

Mr. Shearer is a project manager and senior engineer with experience in civil, environmental and water resources engineering. He has experience successfully completing environmental studies and analyses including watershed-based studies, wetland mitigation plans, hydrologic and hydraulic modeling, stormwater management plans, shoreline stabilization and living shoreline plans, stream assessments, stream restoration plans, watershed management plans, and water resource related technical reports. He is experienced in ecological restoration including wetland restoration, stream restoration, and living shoreline projects in both freshwater and estuarine ecosystems, including the restoration and creation of tidal channels. Mr. Shearer has provided project management, engineering evaluation and design, survey coordination, modeling, permitting and construction administration for the above types of environmental resource projects. He has experience in wetland delineation, State and Federal stream and wetland permitting, SWPPPs, construction management, Construction Engineering and Inspection (CEI) services, environmental compliance support, NPDES, Environmental Resource Permit, and compliance inspections. Mr. Shearer is also experienced with project feasibility studies, preliminary and detailed engineering design, grant procurement, bidding assistance, and design peer reviews. He has designed living shoreline projects which accommodate for SLR.

### **Education**

BS, Civil Engineering – Environmental Option; Natural Resources and Environmental Science, Kansas State University, 2007

Integrated Stream and Stormwater Wetland Design in Urban Settings Class, Duke University, 2013

### **Professional Licenses / Certifications**

Professional Engineer, Florida #79596

Received: 2015

FDEP qualified Stormwater Management Inspector #34890

### **Years of Experience 12**

Mr. Shearer has based his career in preparing studies, project analysis and designs for private, municipal, state, and federal clients that have centered around ecosystem restoration in the context of environmental mitigation and estuary water quality improvement for sensitive watersheds draining to the Chesapeake Bay, Indian River Lagoon, Loxahatchee River, Florida Bay, and Biscayne Bay, among other important waterways. In addition, he has been involved with the FDOT District Four Indian River Lagoon Basin Management Action Plans (BMAP) compliance coordination, reporting and water quality improvement project assessment and documentation research. Mr. Shearer has provided technical support during the development of the Loxahatchee River Reasonable Assurance Plan evaluating data and coordinating involvement for FDOT District Four. Mr. Shearer's technical capabilities include AutoCAD Civil 3D, ESRI ArcGIS, Rivermorph Software, HEC-RAS, EPA SWMM 5.0, ICPR4, Total Station Instruments, GPS units, and various other hydrology and land planning applications.

### **Project Experience**

**Seawall Rehabilitation Project, City of Miami Beach, Miami-Dade County, Florida** — E Sciences is providing environmental support for the design and permitting of seven seawalls within the City of Miami Beach. E Sciences has conducted tree and benthic surveys and is supporting the coastal engineer on the permitting. Mr. Shearer is the project manager for this project.

**Jose Marti Park, City of Miami, Miami Dade County, Florida** — The project site is to be redeveloped to be an innovative waterfront park and offer many opportunities for waterfront connection for citizens, ecological enhancement, and for innovative stormwater management such as green infrastructure practices. E Sciences has been engaged to services related to the natural systems restoration and innovative stormwater design for the park's Adaptive Master Plan through Year 2021. Services include ecological surveys, stormwater design and modeling. Mr. Shearer is the project manager for this project.

**Districtwide NPDES Support Services, FDOT District Four, Florida** — Mr. Shearer was responsible for coordinating, scheduling, implementing, and tracking NPDES inspections for stormwater treatment facilities and outfalls related to the FDOT District Four MS4 permits. He performed NPDES compliance inspections for SWF's which provide water quality treatment for the District. He inspects and documents observations at SWF's regarding necessary maintenance to maintain the water quality functions of the stormwater assets. Mr. Shearer was responsible for coordination and assistance in managing the MS4 stormwater system database and inspection and reporting procedures. He was responsible for TMDL and BMAP compliance coordination, calculations and documentation for the Indian River Lagoon BMAP and Loxahatchee River Remedial Action Plan (RAP), and reviewing, researching and coordinating to provide pollutant load reduction calculations to document District compliance. He was responsible for performing annual Illicit Discharge Detection and Elimination (IDDE) training for the Operations centers in Broward, Palm Beach, and Treasure Coast counties and training staff internally on these matters. He provided engineering technical support regarding drainage plans, structures, and stormwater facility hydrologic recovery assessments. He has directed and managed staff scientists and engineers on special drainage requests, illicit discharge inspections, and Maintenance of Traffic coordination with the Operations centers. Mr. Shearer assists on various tasks and investigations regarding illicit discharges and water quality issues within the District including recurrent flooding and work adjacent to environmentally sensitive areas such as wetlands and mangroves.

**NPDES GIS Database Support, FDOT District Four, Florida** — Mr. Shearer performs QA/QC for georeferencing and digitizing services to assist with populating FDOT District Four's stormwater asset drainage database. Tasks include QA/QC of georeferenced as-built plans, analysis of the flow of the system, digitized drainage assets, and attribute information to be included in District Four's GIS Database, as requested for compliance with FDOT's NPDES permit and per requests from the Drainage and Maintenance Departments.

**Parkview Island Kayak Launch and Park Improvements, City of Miami Beach, Miami-Dade County, Florida** — The City of Miami Beach is implementing a program of kayak launch installations throughout the city to provide residents access to waterways. The Parkview Island Kayak Launch project included a paved access walkway that leads to a gangway providing access to a floating dock with kayak launch. Following acquisition of permits, E Sciences provided post design services, including turbidity monitoring and construction inspections. Mr. Shearer provided turbidity monitoring for this project.

**Miami Wynwood NW 3rd Avenue Woonerf, City of Miami, Miami-Dade County, Florida** — This project involves the conversion of four blocks of urban hardscape in the heart of the Wynwood art district from NW 25th street to NW 29th street into a "woonerf" which is a Dutch-inspired, pedestrian friendly "living" complete street incorporating green design elements, ecological benefits, and pedestrian safety. Mr. Shearer is the project manager and project engineer providing stormwater engineering design and environmental specialist services including innovative stormwater retrofits involving Low Impact Development (LID) design for this unique, green streetscape project. He managed the environmental site analysis and vulnerabilities and resiliency assessment which included heat island effect considerations, energy resource considerations, stormwater and green infrastructure assessment, community outreach and site design related to the stormwater and environmental aspects of the project. The project is a pilot project designed to showcase and scale-up resiliency and adaptation design measures, and a variety of climate-change oriented sensors, metrics and grant funding approaches have been included in E Sciences project evaluation to assist with project funding and resiliency. This project will feature stormwater design conveying green infrastructure such as permeable pavement with underground storage and bio-retention planting areas; tree planter retention areas with structural soils; bio-sorption activated media; cisterns; above-ground rain tanks; solar power; stormwater engineering art; and climate change concepts through public education and outreach. Mr. Shearer is leading the green infrastructure design and integrating the LID principles to show off stormwater management as functional environmental art which ties the site to the Everglades and Biscayne Bay natural areas of Miami. The final design will be presented to the Wynwood Business Improvement District and public.

**Finish Mill Alternative Storage Facility Environmental Considerations Evaluation (FMAEF), Titan Florida, Pennsuco Complex, Town of Medley, Miami-Dade County, Florida** — Mr. Shearer was responsible for the evaluation of four site layouts and three roadway layouts for environmental considerations including ERP requirements and feasibility and sizing of stormwater practices to meet treatment requirements for the alternative layouts for the project site. Structural control stormwater BMPs such as wet detention, dry retention, and exfiltration practices were evaluated for the site. Environmental permitting needs were identified and summarized within the letter report, including ERP, Miami-Dade stormwater and cut and fill permits, and a tree clearing evaluation and permit requirements.

**Six Affordable Units Stormwater Management Plan Review, Islamorada, Village of Islands, Monroe County, Florida** — Mr. Shearer conducts reviews of designs of stormwater management systems for proposed development projects for compliance with local codes and state regulations. He has also performed reviews of FEMA Letter of Map Revision applications for the Village to determine compliance with local codes, state regulations, and FEMA requirements.

**Little Palm Villas Stormwater Management Plan Review, Islamorada, Village of Islands, Monroe County, Florida** — Mr. Shearer conducts reviews of designs of stormwater management systems for proposed development projects for compliance with local codes and state regulations. He has also performed reviews of FEMA Letter of Map Revision applications for the Village to determine compliance with local codes, state regulations, and FEMA requirements.

**Sunset Ventures Stormwater Management Plan Review, Islamorada, Village of Islands, Monroe County, Florida** — Mr. Shearer conducts reviews of designs of stormwater management systems for proposed development projects for compliance with local codes and state regulations. He has also performed reviews of FEMA Letter of Map Revision applications for the Village to determine compliance with local codes, state regulations, and FEMA requirements. with local codes and state regulations. He has also performed reviews of FEMA Letter of Map Revision applications for the Village to determine compliance with local codes, state regulations, and FEMA requirements.

**Southwest 137th Avenue Permitting Support, Miami-Dade County, Florida** — Mr. Shearer was responsible for environmental resource permitting support for a design-build project involving constructing a roadway that connects the existing intersection of SW 137th Avenue and SW 200th Street to the existing intersection of US-1/SR-5 and SW 137th Avenue. He managed a team to perform field assessment of natural resources, a tree inventory update, and assessment of impacts to wetlands and Waters of the United States to prepare a natural resource report for use as a permitting support document. Mr. Shearer managed the preparation and submittal of permit applications to the client for permits from the SFWMD, Miami-Dade County RER, and the USACE. Wetland impacts were avoided by this project and no mitigation was found to be required.

**Melbourne Central Indian River Lagoon Water Quality Improvement Study Master Plan Update, City of Melbourne, Brevard County, Florida** — Mr. Shearer was responsible for a study focused on identifying and evaluating water quality stormwater retrofit projects and developing concept designs to address the Central Indian River Lagoon (CIRL) BMAP, TMDL compliance, and to develop a comprehensive watershed management plan for the CIRL basin within the City. He managed the project team to create and evaluate 20+ potential watershed retrofit projects to improve water quality and assess pollutant loading to receiving waters. Mr. Shearer and the team developed conceptual stormwater retrofit plans for each project location, using Low Impact Development stormwater management and other environmental sensitive stormwater practices. Additionally, he and the project team evaluated the function and effectiveness of existing stormwater structural and non-structural controls to make recommendations for improvements to water quality. Pollutant load reduction modeling and calculations were performed for each proposed project location, and planning level cost estimates were developed. The projects were ranked and prioritized based on several factors, including their cost effectiveness in pollutant load reduction, feasibility, and maintenance considerations. Stormwater projects included wet and dry pond retrofits, nutrient separating baffle boxes, vegetated filter strips, ditch and canal retrofits, off-line wet retention, algal turf scrubbers, bio-swales, biosorption activated media,

regenerative stormwater conveyance channels, constructed stormwater wetlands, living shorelines and oyster restoration. The deliverable report summarizes the evaluation of these stormwater retrofits, prioritizes projects with respect to cost-effectiveness, and will assist the City in making future stormwater retrofits to address the CIRL BMAP.

**Autumn Woods Stormwater Quality Retrofit and CEI Services, City of Melbourne, Brevard County, Florida** — Mr. Shearer was the Engineer of Record responsible for construction oversight services for stormwater retrofit and drainage improvements to improve water quality and flood reduction including the construction of the Autumn Woods wet detention pond. The pond was sited in a location that intersected an untreated stormwater conveyance system to the Eau Gallie River and restored treatment to areas which, prior to the project, were served by a dysfunctional treatment system. E Sciences developed construction plans and specifications, an engineer's cost estimate, obtained regulatory approvals, and secured all necessary permits from the St. Johns Water Management District (SJRWMD) and USACE for work within and impacts to Waters of the United States. The project site, which lies within the North Indian River Lagoon portion of the City's MS4, improved water quality treatment by reducing the stormwater pollutants for the drainage basin by 315 lb/yr of TN and 135 lb/yr of TP. Mr. Shearer was responsible for CEI services for this project that involved site observation inspections during various stages of construction, inspection documentation, addressing requests for information, review and approval of shop drawings, evaluation of deviations from approved plans, review and approval of pay applications, construction completion certification, permit correspondence and development and submittal of Record Drawings. E Sciences provided grant support services to the City for this project which included assistance with, preparation of, submittal, and award for a FY2015 Section 319 Grant for the project for \$518,750 (~60% of total construction cost) to support TMDL compliance. Construction of this project was completed in July 2017.

**Croton Road Stormwater Improvements and CEI Services, City of Melbourne, Brevard County, Florida** — Mr. Shearer was the engineer-of-record responsible for construction oversight services for stormwater retrofit improvements including the construction of four dry retention basins (dry swales) in series within the median of Croton Road, and a 2nd generation nutrient removal Baffle Box to improve water quality to support the City's TMDL compliance. An underdrain system was installed under the dry swales to address high water table conditions in this area. E Sciences developed construction plans and specifications, including an engineer's cost estimate and other information necessary for bid documents for the proposed improvements. The treatment train design helps reduce localized flooding and maintenance issues for this area and provides 133 lbs/yr of TN removal and 32 lbs/yr of TP removal which the City will use towards credit in their Indian River Lagoon BMAP. Mr. Shearer was responsible for CEI services for this project which involved performing and coordinating site inspections during all stages of construction, inspection documentation, addressing requests for information, review and approval of shop drawings, evaluation of deviations from approved plans, claims review, review and approval of pay applications, construction completion certification, permit correspondence and development and submittal of Record Drawings. The City was awarded \$191,100 in grant funding for this water quality improvement project. Construction of this project was completed in January 2017.

## Subconsultant Resumes

### AirQuest



Traci-Anne Boyle, MBA, CIH, CSP

President/CEO

	<b>PROFESSIONAL DISCIPLINES:</b> <ul style="list-style-type: none"> <li>• Indoor Air Quality</li> <li>• Asbestos</li> <li>• Defective Corrosive Drywall</li> <li>• Corporate Social Responsibility/Sustainability</li> <li>• Industrial Hygiene</li> <li>• Contamination Assessments and Remedial Action</li> <li>• Litigation Support/Expert Witness</li> <li>• Maritime Industrial Hygiene / EH&amp;S</li> <li>• Mold Assessment and Remediation</li> </ul>	<b>EXPERIENCE:</b> 28 years
		<b>EDUCATION:</b> <ul style="list-style-type: none"> <li><b>Master of Business Administration</b>, June 2002 University of Baltimore, Baltimore, Maryland</li> <li><b>Bachelor of Science Biology</b>, August 1993 Florida International University, Miami, Florida</li> </ul>

**BIO:**

Ms. Boyle has over twenty-eight (28) years of diverse environmental consulting and industrial hygiene experience spanning more than thirty states in the US as well as the Caribbean. Her niche is in successfully directing sensitive, complex, multi-disciplinary, and large-scale environmental and industrial hygiene projects. Her experience includes simultaneous senior project management of multi-million dollar environmental projects in three (3) states.

Ms. Boyle has provided environmental consulting to a variety of parties including domestic and foreign government officials, attorneys, insurance companies, lending institutions, architects, engineers, the construction industry, property asset managers, multi-national corporations, and regulatory agencies.

Ms. Boyle is the technical qualifier for AirQuest's industrial hygiene and safety consulting services and she is the Chief Executive Officer responsible for all aspects of the business.

#### REGISTRATIONS, LICENSES & CERTIFICATIONS

American Board of Industrial Hygiene, Certified Industrial Hygienist (#8561, Comprehensive Practice, July 2003)  
 Board of Certified Safety Professionals, Certified Safety Professional (#23595, November 2012)  
 Florida Asbestos Consultant (#AX-60, June 2005)  
 Florida Mold Assessor (#MRSA-135, November 2010)  
 OSHA Health and Safety Certified for Hazardous Waste Operations, 29 CFR 1910.120, 1994  
 Asbestos Building Inspector: Accreditation under TSCA Title II/AHERA, 1995  
 Asbestos Project Designer: Accreditation under TSCA Title II/AHERA, 2004  
 Asbestos Management Planner: Accreditation under TSCA Title II/AHERA, 2004  
 OSHA Certified Competent Person Class II Asbestos Abatement Supervisor, 29 C.F.R. part 1926.1101, 1998 only  
 Mold Assessment & Remediation in Buildings, 2002  
 Respiratory Protection, 2003  
 Radiation Safety & Operator Training – XRF Spectrum Analyzers, 2010  
 (The above course descriptions are for the original courses. If required, the requisite annual courses have been taken to maintain certifications unless noted.)

#### ASSOCIATIONS

American Board of Industrial Hygiene, Subcommittee on Stewardship and Sustainability  
 American Conference of Governmental Industrial Hygienists  
 American Industrial Hygiene Association  
 American Society of Testing Materials (ASTM) International, Subcommittee on Environmental Assessment (2003-2016)  
 Board of Certified Safety Professionals  
 National Association of Environmental Professionals, Member #11050 (1996-2009)  
 Indoor Air Quality Association  
 Women's Business Enterprise National Council  
 Women Impacting Public Policy, Subcommittee on Energy & the Environment (2009-2010)

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**Beta Gamma Sigma, Member #837318****SELECTED PROJECT EXPERIENCE****Industrial Hygiene**

Conducted a risk assessment of the use of chemicals with a Hazardous Material Identification System (HMIS) Health rating of 3 or 4 for a large passenger cruise company. The assessment included interviews with employees, observations of work conditions and work procedures, field screening for key indoor air quality parameters and laboratory analysis of exposures to a variety of chemicals of concern. The data collected was used to develop exposure evaluations for over 100 chemicals, which were presented in concise one (1) page attachments to MSDS sheets.

Certified industrial hygienist responsible for noise sampling of ten (10) workers at a vehicle assembly facility. The sampling was performed using Casella Noise Dosimeters. The equipment was factory calibrated and field calibrated prior to use. Ten (10) workers were monitored during the work shift within the 75,000 square foot industrial building. The results indicate that the Time Weighted Average (TWA) or average sound level (used if less than 8 hours were collected), were above the Occupational Safety and Health Administration (OSHA) Action Level of 85 db or Permissible Exposure Limit of 90 db in all but one (1) of the samples. Based upon the results of the sampling, recommendations for compliance with CFR 1910.95, OSHA's Occupational Noise Exposure regulation, were made.

Certified industrial hygienist responsible for the oversight of removal of lead contaminated soil at Patrick's Air Force Base. The project consisted of the demolition of an existing small arms firing range and excavation and disposal of lead contaminated soil. A Worker Protection and Exposure Monitoring Plan, Ambient Air Monitoring Plan and Confirmatory Sampling and Analysis Plan were developed prior to site activities. The demolition debris was sampled to determine if it was a characteristic hazardous waste. Initial and periodic personal air monitoring was conducted during remediation activities to assist in the evaluation of exposure levels and the selection of appropriate respiratory protection. Background samples were placed in the vicinity of excavation activities to evaluate the potential exposure to intermittent site visitors. Daily air monitoring was conducted for lead to evaluate if the remediation activities were within the EPA's National Ambient Air Quality Standards. Each soil pile was sampled for disposal purposes and confirmation soil samples were collected from the excavation to confirm that all lead impacted soils were removed from the site.

Certified Industrial Hygienist responsible for oversight of three (3) contracts with the Department of the Navy for industrial hygiene sampling at NAS Jacksonville, FL; FRC Solomons, MD; and JRB Fort Worth, TX. Quarterly and semi-annual sampling is conducted to evaluate exposures to heavy metals, dust, hexavalent chromium, and respirable cadmium. Wipe sampling is also performed at JRB Fort Worth to evaluate settled dust loads.

Conducted personnel monitoring to evaluate airborne contaminant concentrations and personal exposure levels to silica before and after modifications were made to a sandblasting room. The results of the laboratory sampling and analysis did not identify detectable concentrations of quartz, cristobalite or tridymite silica in the personal and area samples collected before or after modifications were made to the exhaust system in the sandblasting room.

**Asbestos Emergency Response, Surveys & Abatement Oversight**

Provided senior project management to an emergency response to an asbestos release aboard a passenger cruise ship that was in dry-dock undergoing interior renovations. The logistics for the project included operating in a foreign country (Curacao, Netherland Antilles), coordinating and/or overseeing 100 asbestos abatement workers and asbestos consultants, foreign government officials, the vessel owner, the captain and crew of the vessel, the dry-dock owner's representatives and consultants from the Netherlands and working under intense time constraints. The asbestos abatement project was successfully completed within eleven (11) working days. Air monitoring and onboard asbestos consulting continued for an additional six (6) weeks while renovations to the ship were completed.

Senior project manager for an asbestos survey of over 2 million square feet of space within four (4) buildings of the Broward County Judicial Complex in downtown Fort Lauderdale, Florida. The laboratory results were incorporated into a 10,000-entry interactive database for the County's use.

Senior project manager for AirQuest's term contracts with Broward County Public Schools and Miami-Dade County Public Schools. Asbestos consulting services are provided for compliance with the Asbestos Hazard Emergency

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**Response Act (AHERA).**

Certified Industrial Hygienist that provided on-site supervision and senior project management to determine the presence of asbestos containing materials (NESHAPs and the CAA compliance) at the Virgin Islands Army National Guard facility in St. Croix, US Virgin Islands. Contract specifications were developed for the abatement.

Veteran's Administration Certified Industrial Hygienist. Conducted asbestos and lead based paint surveys of the 7,000 square foot renovation area. Designed specifications for the asbestos abatement. Managed the asbestos abatement oversight on behalf of the VA.

**Mold Assessment & Remediation**

Conducted and/or supervised hundreds of microbial investigations throughout Florida on behalf of homeowners, homebuilders, insurance carriers, condominium associations, employers, defendants and plaintiffs.

Conducted a mold and moisture survey of an occupied building in Miami, Florida. The occupants had been complaining of symptoms consistent with indoor mold amplification for several years. Numerous previous studies had been conducted on behalf of the building owner that suggested indoor microbial growth. Recommendations had been made, however the symptoms continued and several occupants permanently vacated the building. The purpose of the survey was to document the living conditions on behalf of the residents in support of potential medical claims. The moisture survey demonstrated that over half of the building materials had excess moisture. The relative humidity was above ASHRAE recommended levels. Over thirty (30) air and bulk samples were collected for total spore counts, viable culturable fungi, and fungi identification. The results clearly demonstrated indoor amplification of *Penicillium* and *Aspergillus*. Photographs were taken illustrating mold growing on the interior of the air ducts and on the underside of vinyl floor tile. A report was prepared summarizing all of the previous investigations conducted on behalf of the building owner and the investigation conducted on behalf of the residents.

Conducted a mold survey for a residential unit in Homestead, Florida. The unit had been impacted by two (2) water incursion events several months apart. The survey was requested to determine if the mold impacts could be differentiated based upon the sources so that the remedial costs could be apportioned appropriately by the responsible parties. Photographic documentation was collected, observations were recorded, and bulk, tape lift and air samples were collected. The results of the investigation indicated that the source of the mold contamination could be differentiated based upon the observed damaged areas and the types of mold in these areas.

**Indoor Air Quality**

Conducted a Baseline Indoor Air Quality Survey and Prepared an Operations and Maintenance Plan for a municipal Fire Station. Particular attention was focused on documenting the quality of the heating, ventilation, and air conditioning (HVAC) system through readings of relative humidity, temperature, carbon dioxide and carbon monoxide. Volatile organic compounds and respirable particles were evaluated using a MiniRAE PhotoIonization Detector and a MIE PDM-3 Miniram, respectively. Data was collected using real-time digital readouts and datalogged over a 48 hour period for download and analysis. At the Client's request, representative areas were selected for bioaerosol monitoring. Samples for both viable culturable fungi and total spore counts were collected. The procedures and results of the investigation were incorporated into a comprehensive baseline survey report, outlining the findings of the sampling and recommendations for corrective action. Baseline background facility information was collected and incorporated into the O&M Plan including a chemical inventory list. Checklists were developed to assist internal personnel and/or outside consultants in monitoring potential indoor air quality concerns. The report identified specific tasks and schedules. Semi-annual monitoring is performed at this facility.

**Corrosive Drywall**

Provided senior project management to determine the presence of corrosive (Chinese) drywall in sixty (60) homes within a residential development in Broward County, Florida. The scope of the inspections included: documentation of the presence of odors, visual inspection of the air handler, electrical panel, representative switches and outlets and potentially impacted appliances, wall cavity examination using a boroscope, field screening for hydrogen sulfide using a Jerome H<sub>2</sub>S Analyzer and air and drywall laboratory sample collection for analysis. Corrosive drywall was identified within several of

the inspected residences.

#### **Air Resources Management**

Consulted with the Environmental Management Authority (EMA) Trinidadian environmental professionals on development of the Air Pollution Rules of the Environmental Management Act for the Republic of Trinidad and Tobago. Consulting services included teleconferencing, providing formal presentations to the EMA, and development of a paper for presentation at the American Chamber of Commerce of Trinidad and Tobago, 5th Annual Safety, Health & Environmental Conference and Exhibition, 2001, Trinidad, West Indies.

Completed an Annual Operating Report (AOR) for a furniture manufacturer in Miami, Florida. Facility usage data was determined, emissions per regulated emission unit and source classification code (SCC) and calculated and the report was prepared using the Florida Department of Environmental Protection's EAOR software.

Supervised atmospheric dispersion modeling of hydrogen sulfide (H<sub>2</sub>S) emissions from the exhaust gas of a scrubbing unit, located at a water treatment plant in Palm Beach County, Florida. The modeling was conducted to determine appropriate design parameters for the scrubbing unit that would insure the ambient H<sub>2</sub>S concentrations remained below a threshold of 10 parts per billion (ppb) as determined at the closest residence.

#### **Phase I Environmental Assessments and Due Diligence Investigations**

Performed and/or managed over 200 multi-disciplinary due diligence investigations (Phase I Environmental Assessments, Phase II Environmental Assessments, Transaction Screens, lead based paint surveys, radon surveys, asbestos surveys). Due diligence investigations conducted in accordance with the applicable ASTM Standard, client standard, certification requirements and/or exceeding industry standards.

Preparation of an extensive Phase I and Phase II Environmental Assessment to encompass approximately 54,000 acres of land utilized as a sugar farm. The Phase I Environmental Assessment included a current and historic aerial photograph and Sanborn Fire Insurance Map review in two counties, an aerial site reconnaissance, vehicle site reconnaissance, site and adjacent properties historical review, and several regulatory agency file reviews. A groundwater assessment was conducted for an area of the property historically used as a trash pit. Additionally, groundwater assessments were conducted in several areas of the site identified as environmental concerns during the Phase I Environmental Assessment.

Conducted a Phase I Environmental Site Assessment of an ethanol fuel transfer station and a 4-acre rail spur in Fort Lauderdale, Florida. The Phase I included a current and historic aerial photographs and Sanborn Fire Insurance Map review, a site reconnaissance visit, site and adjacent properties historical review and a regulatory agency file review. Based on the findings of the Phase I, Recognized Environmental Conditions (RECs) were identified: the current and historic use of portions of the subject property as a rail spur and associated transfer of unknown cargo. The fuel transfer activities and stained soil observed under the off-loading hose on the railroad tracks on the subject property were also an REC. Made recommendations to perform an additional assessment to delineate the extent of the impacts and interim source removal activities to abate soil contamination.

Performed a Limited Phase I Environmental Site Assessment in general conformance with a reduced scope and the limitations of ASTM Practice E 1527 of a dry cleaner in Hollywood, Florida. The assessment found no evidence of recognized environmental conditions with the exception of the historical and current use of the subject property as a dry cleaner, an onsite above ground storage tank with petroleum products and site drainage to an on-site septic system. Recommended a Phase II Investigation. The results of the Phase II identified petroleum product constituents in the groundwater at the site below regulated levels.

Conducted a Phase I Environmental Site Assessment of a former dry-cleaning facility currently operating as a convenience store in Normandy Isles, Florida. Based on the findings of the Phase I, a Phase II Environmental Site Assessment (Phase II) was recommended and conducted for the site. Soil and groundwater samples were collected in several areas of the site and analyzed for petroleum contaminants. The results of the laboratory analysis indicated that one (1) soil sample was above the FAC Chapter 62-777 Soil Cleanup Target Levels (SCTLs) Commercial/ Industrial sites.

Laboratory analytical results at the four (4) groundwater sampling points did not identify tested contaminants above regulated levels. Recommendations were made to performed an additional assessment to delineate the extent of the impacts and interim source removal activities to abate soil contamination.

#### **Contamination Assessment and Remedial Action**

Prepared a Comprehensive Site Assessment for an airplane seat manufacturer in Winston-Salem, North Carolina. A soil gas survey was utilized as a cost effective technology to investigate the potential lateral extent of chlorinated solvents in the soils and groundwater at the thirty (30) acre facility. Potential receptors and migration pathways, contaminant source areas, and the horizontal and vertical extent of soil and groundwater contamination was investigated. The Comprehensive Site Assessment was prepared in accordance with North Carolina report preparation requirements. Chlorinated solvents were documented in the bedrock aquifer to a depth of over 140 feet and in a nearby stream. Remedial alternatives and a feasibility study were developed.

Conducted assessment activities, implemented remedial action, and conducted quarterly monitoring at a site with groundwater contamination by 1,1,1-trichloroethane (TCA) in Litchfield, Connecticut. To evaluate the vertical extent of contamination, a packer system was used to sample groundwater from discrete (10 feet to 20 feet) intervals with two deep monitoring wells (82 feet and 182 feet). The use of packers eliminated the need to drill numerous deeper wells to define the extent of contamination. Active site remediation consisted of soil excavation, groundwater extraction and remediation through air stripping followed by discharge to an adjacent creek. Active site remediation was completed and semi-annual monitoring of the on-site wells was conducted.

Participated in the development of a Remedial Action Workplan Addendum (RAWA) for a manufacturing facility in Nutley, New Jersey. The initial Remedial Action Workplan was prepared by another consultant. A review of the remediation progress and site data indicated that source material was likely present at the site. A soil gas survey was conducted, source material identified and removed. The RAWA included the addition of vacuum extraction trenches and retrofitting of groundwater extraction wells to optimize contaminant removal.

Developed numerous alternate procedures for the small-scale remediation of surficial contamination identified during due diligence investigations. The plans were developed to facilitate property transactions to the satisfaction of the property owner and purchaser and were conducted in accordance with standard industry care.

#### **Multi-Disciplinary Projects**

Document review and consulting services during a property transaction for a 270-acre former nylon manufacturing facility in Greenville, South Carolina. Over ten (10) years of technical documents and the onsite groundwater and soil remedial system operation and performance were reviewed. A site inspection was conducted to supplement the document review. Groundwater analytical results were condensed and prepared for modeling purposes. Based upon the modeling results, a soil gas survey was performed upgradient of the groundwater plume. The results of the soil gas survey revealed an area with elevated levels of carbon tetrachloride that could act as an ongoing source of contamination. The findings of the soil gas survey were presented to the current owners of the site to enhance and supplement the remedial efforts.

Preparation of a Phase I, Phase II, Contamination Assessment, Risk Characterization, Remedial Action Plan, and Remedy Implementation Plan for a property in Everett, Massachusetts. The property was formerly occupied by a paint manufacturer that utilized numerous aboveground storage tanks (ASTs), Underground Storage Tanks (USTs), 55-gallon drums, and other miscellaneous containers for the manufacture of latex and oil-based paints and the manufacture of tennis surfacing material. The manufacturer disposed of latex paint rinse water effluent by discharging to two (2) on-site unlined lagoons. The Contamination Assessment delineated the horizontal and vertical extent of soil and groundwater contamination. A Method III characterization was chosen for the soil and groundwater at the site. The results of the risk characterization were used as the basis to select the appropriate remedial action and to select the appropriate Response Action Outcome for the disposal site pursuant to 310 CMR 40.1000. Subsequently a Remedial Action Plan and Remedy Implementation Plan were prepared utilizing the risk based soil and groundwater clean-up levels established in the Risk Characterization.

Preparation of an extensive Phase I and Phase II Environmental Assessment to encompass approximately 1466 acres of

land in rural Palm Beach County, Florida. The Phase I and Phase II investigations were conducted in conjunction with the South Florida Water Management District and their consultants. A fresh diesel spill was discovered during the Phase I Assessment. Subsequently, Initial Remedial Actions consisting of the excavation of excessively contaminated soil were conducted. A Contamination Assessment Report was prepared for the site revealing limited groundwater contamination. An Alternate Procedure was proposed and implemented to remediate the limited extent of groundwater contamination. Corporate environmental consulting to an international firm with over twenty (20) domestic and seven (7) international large-scale manufacturing facilities. Managed all remedial soil and groundwater operations at the facilities, provide property transaction representation during leasebacks and acquisitions, and established compliance programs under RCRA and OSHA for the firm.

#### **Litigation Support**

Provided consulting services on numerous mold contamination claims throughout South Florida on behalf of both plaintiffs and defendants. A listing of previous testimony is available upon request.

Represented the former owner of a hospital in fulfilling their environmental obligations under a purchase and sale agreement. The initial review of claims resulted in a savings of over \$800,000 in reimbursement costs. The final reimbursement request was \$312,000 against a potential liability of \$5,000,000. The claim was settled for under \$312,000 based upon diligent review and coordination with the client's legal counsel.

Evaluated the extent of soil contamination at two rental car facilities in Warren and Romulus, Michigan for litigation support. Soil contamination was documented and extensive excavations were performed at both facilities by the client's previous consultant. A database of soil analytical results was created and the distribution of contamination was modeled for each site. Based upon the results of the model, it was determined that the data supported the removal of only a fraction of the soils actually removed from the sites. An opinion was presented to the client's counsel for support of recovery of costs from the parties involved in performing the unnecessary soil removal activities.

Review of over 400 boxes of technical documents spanning eighty years in support of litigation. The technical review consisted of the development of a comprehensive database to facilitate retrieval of documents and water, soil, and air quality data. Personally responsible for the design of the relational database which consisted of twenty tables and several hundred thousand records. The database was used to facilitate the analysis of the fate, transport, and timing of the releases at this complex site.

#### **PUBLICATIONS / PRESENTATIONS**

Weaver, R., F.R. Baddour, T. Boyle and V. Rossinsky, Jr., "Removal of Chlorinated Solvents Using Soil Vapor Extraction and Groundwater Treatment Technologies", Proc. 94th Annual Conference and Exhibition Air & Waste Manage. Assoc. 2001, Orlando, FL, Paper No. 508.

Weaver, R., J. Als, F.R. Baddour, T. Boyle and V. Rossinsky, Jr., "Air Quality Management: A Tactical Approach", American Chamber of Commerce of Trinidad and Tobago, 5th Annual Safety, Health & Environmental Conference and Exhibition, 2001, Trinidad, West Indies.

## QuEST

RESUME'

**Name:** R. N. Sailappan, P.E.

**Education:** B.S. (Naval Architecture), Cochin University of Science & Technology, Cochin, India, 1986  
M.S. (Civil Engineering), Florida Atlantic University, Boca Raton, FL, 1991

**Licenses:** Professional Engineer, Registered in the State of Florida, 1993

**Associations:** Member, American Society for Testing of Materials (ASTM), 2010  
Member, American Society of Civil Engineers (ASCE), 1994  
Member (Former), Institution of Naval Architects (INA), India, 1987

**Work Experience:**

1998 - Present	Principal Quest Engineering Services & Testing, Inc. Pompano Beach, Florida.
1990 - 1998	Engineer & Manager Professional Service Industries, Inc. West Palm Beach, Ft. Lauderdale, Miami, FL
1988 - 1990	Graduate Research Assistant Dept. of Ocean Engineering, Florida Atlantic University Boca Raton, Florida
1986 - 1988	Naval Architect Mazagon Dock Ltd., Mumbai (Bombay), India

**Relevant Skills:** Geotechnical Studies and Foundation Design Recommendations  
Foundation Installation Inspections & Pile Load Tests  
Field and Laboratory Tests on Soil, Concrete, Masonry, Asphalt  
Structural (Special/Threshold) Inspections  
Environmental Site Assessments  
Project Management, Marketing, Business Development

**Relevant Projects:** Miramar East Water Treatment Plant, Miramar, FL  
Sawgrass Water Treatment Plant, Sunrise, FL  
North Broward Waste Water Treatment Plant, Pompano Beach, FL  
Utility Improvements, City of Sunrise, FL  
Miami-Dade Water & Sewer Utility Improvements, Dade County, FL  
Ft. Lauderdale/Hollywood International Airport, Ft. Lauderdale, FL

**Publications**

D. V. Reddy and R. N. Sailappan, "Acoustic Emission as a NDE Tool - Certain Laboratory and Field Investigations", December 1989.

D. V. Reddy, S. K. Lee, R. N. Sailappan, W. H. Hartt & M. Arockiasamy, "Fracture Mechanics Evaluation of the Durability of Fly Ash Concrete", December, 1991.

D. V. Reddy, S. K. Lee, R. N. Sailappan, W. Ahn, G. V. Jeedigunta, and K. P. Bethune, "Corrosion Resistance and Fracture Toughness of High Performance Concrete in the Marine Environment", May-June 1998.

Mr. Sailappan has over 30 years of engineering industry experience, with 28 of those years being in South Florida. He has worked on hundreds of projects such as roadways, utilities, public facilities, commercial projects, residential projects, stadiums and arenas, providing construction materials testing, geotechnical engineering, structural inspections, wind load evaluations as well as engineering consultations with regard to roofing, ground vibrations, light and sound analysis.

**RESUME'**

**Name:** Reza Javidan, P.E.

**Education:** B.S. (Civil Engineering), University of Detroit, MI, 1986  
M.S. (Civil Engineering), University of Detroit, MI 1988

**Licenses:** Professional Engineer, Registered in the State of Florida, 2003

**Work Experience:**

2015 - Present	Project Engineer Quest Engineering Services & Testing, Inc. Pompano Beach, Florida.
2009 - 2015	Project Engineer Florida Engineering & Testing, Inc. Pompano Beach, Florida.
2004 - 2009	Senior Geotechnical Engineer Nutting Engineering of Florida Boynton Beach, Florida
2000 - 2004	Geotechnical Engineer ATC, Inc., Miami, Florida
1993 - 2000	Geotechnical Engineer Toos-Ab Engineering, Inc., Mashad, Iran.
1989 - 1993	Project Engineer Bowser-Momer Associates, Inc., Toledo, Oh

**Relevant Skills:** Geotechnical Studies and Foundation Design Recommendations  
Foundation Installation Inspections & Pile Load Tests  
Field and Laboratory Tests on Soil, Concrete, Masonry, Asphalt  
Structural (Special) Inspections  
Project Management

**Relevant Projects:** Trump Plaza, Hallandale Beach, FL  
Office Max Headquarter Building, Boca Raton, FL  
State School QQQ, Miami, FL  
Sunset Lakes Elementary School, Miramar, FL  
BCC-Central Campus, Proposed Parking Garage, Davie, FL  
North Broward Waste Water Treatment Plant, Pompano Beach, FL  
Broward County Fire Rescue – Station 34, North Lauderdale, FL  
Ft. Lauderdale/Hollywood International Airport, Ft. Lauderdale, FL

Mr. Javidan has over 30 years of engineering industry experience of which over 17 years have been in South Florida. He has worked on hundreds of projects such as roadways, utilities, public facilities, commercial projects, residential projects, providing construction materials testing, geotechnical engineering, structural inspections, wind load evaluations as well as engineering consultations with regard to roofing and ground vibrations.

**QuEST**

Intercounty



## INTERCOUNTY ENGINEERING, INC.

1925 NW 18<sup>th</sup> Street  
Pompano Beach, FL 33069  
(954) 972-9800 \* Fax: (954) 974-0042

**Thomas V. Veit**  
**Field Superintendent**  
Phone: (954) 972-9800

### **Employment:**

Intercounty Engineering Inc., 1998– Present, Field Superintendent  
Ryan Eastern, 1994 – 1997, Foreman

### **Education:**

Roxbury High School, 1 Bryant Drive, Succasunna, New Jersey 07876

### **Accomplishments:**

Certificate, Traffic Safety, Florida Advance Work Zone Traffic Control, Training Course.  
OSHA/Current CPR and First Aid Certification  
Confined Space Refresher Course, June 2018

### **Project List:**

WWTP Influent Pump Station, Homestead, FL  
Forest Hill Blvd C-13 Canal Culvert & Approach, Wellington, FL  
SRWRF Headworks Bypass – Palm Beach, FL  
Springtree Wellhead Design for Wells S-10R, S-11R, S-12R & S-18R, Sunrise, FL  
Cooper City Lift Station No 07, Cooper City, FL  
Pump Station 11B Rehab, Opa Locka, FL  
Pump Station 127 Upgrades, Hialeah, FL  
Grit Removal in Oxygenation Trains, Hollywood, FL  
Rehabilitation of Lift Stations 11B, 11C, 12D, 12E, 13A, 13B, 13C, 13D, Coral Springs, FL  
Imperial Point Water Main, Fort Lauderdale, FL  
Fremd Village & Padgett Island Lift Station, Pahokee, FL  
Lift Station 100A Upgrade, Delray Beach, FL  
Lift Station Conversion/Upgrade (A-3, A-8, W-6 and W-26), Hollywood, FL  
Lift Station 801 Rehabilitation, Boynton Beach, FL  
Central District Flushing Water System Improvements-Phase 1, Miami-Dade Water & Sewer  
Lift Station 14, 20 and 64 Rehabilitation, Deerfield Beach, FL  
Phase II System wide Upgrades, PS A-14, A40, B-9, D-33, D-35, D-36, Ft. Lauderdale, FL  
Rehabilitation of Storm Water, PS OL-1, Village of Key Biscayne, FL  
Lift Stations 6, 27, and 61 Rehabilitation, Deerfield Beach, FL

Riverside/Victoria (5) Pump Station Installation, Ft. Lauderdale, FL  
Edgewater Pump Station (3) Pump Station Installation, Ft. Lauderdale, FL  
Fiveash Water Treatment Plant, Ft. Lauderdale, FL  
Septic Area 3, 4, and 5, Ft. Lauderdale, FL  
Group 1 and Group 2 Pump Station Rehabilitation, Ft. Lauderdale, FL  
Croissant Park, Basin C, Ft. Lauderdale, FL  
Seacoast Lift Station No. 21 Force Main Relocation, Seacoast Utility Authority, FL  
Drainage Systems Improvement, Pompano Beach, FL  
Municipal Golf Course Reclaimed Watermain, Delray Beach, FL  
Baywinds Stormwater Pump Stations, Northern Palm Beach County, FL  
Master Pump Station 364 and Force Main, Seacoast Utility Authority



## INTERCOUNTY ENGINEERING, INC.

Corporate Offices  
1925 NW 18<sup>th</sup> Street  
Pompano Beach, FL 33069  
(954) 972-9800 + Fax: (954) 974-0042

**Luis Fernando Cordova**  
(954) 325-7948

### **Education:**

University: "Ricardo Palma" University, Lima - Peru. 1978 - 1984.  
Degree: Bachelor in Civil Engineer.  
High School: "Leoncio Prado" Military School, Callao - Peru. 1975 - 1977.

### **Licenses & Training:**

State of Florida Certified General Contractor CGC 1524737  
State of Florida Roofing Contractor (inactive status)  
Training in Confined Space, First Aid/CPR

### **Experience:**

July 1999 – Present, Intercounty Engineering, Inc., Pompano Beach, FL

1. Project Manager / Project Superintendent
2. Projects located from Monroe, Dade, Broward, Palm Beach and Martin County.
3. Projects consisted of all phases of underground utilities, water and wastewater treatment plants, lift and pump stations, force main and water main installation, asphalt and concrete work; both restoration and new, landscaping and all related works.

July 1991 - June 1999, CSI Roofing, Inc., Pompano Beach, FL  
Roofing Estimator and Roofing Project Manager

1988 - July 1991, ARVIFESA General Contractor, Peru

Project Manager for the following:

- 1 Construction of 34 houses at Chinchá - Peru.
- 2 Finishing of the Peruvian Nation Bank at Chinchá - Peru.
- 3 Factory Concrete building and Concrete Tanks at "Química del Pacífico", Callao, Peru
- 4 Pedestrian Tunnels, Market and Service Building at Peruvian Navy. San Borja, Peru

1985 - December 1986

Residential and Commercial Designer and General Contractor.  
(Own company) Lima - Peru.



## INTERCOUNTY ENGINEERING, INC.

Corporate Offices  
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### **Project List with Intercounty Engineering, Inc.:**

#### **WWTP Influent Pump Station – Homestead, FL**

Upgrades for Lift Stations No 33 and No 226, Boca Raton, FL

Sanitary Sewer Pump Station A-12 Rehabilitation, Fort Lauderdale, FL

**WWRF Injection Pump Station, Miramar, FL - \$529,024.58**

**NRWTP Chlorination Modifications, Broward County, FL - \$2,157,580.78**

Emergency Rehab for Lift Stations 197 & 213, Boca Raton, FL

Morikami Park Sewer Expansion, Boca Raton, FL

**Broward County Facilities Maintenance, Broward County, FL - \$1,700,400.00**

Pump Station 11B Rehabilitation, Opa Locka, FL

Pump Station 127 Upgrades, Hialeah, FL

Rehab of Lift Stations 9, 28, 29 and 53, Deerfield Beach, FL

Rehab of Lift Stations 11B, 11C, 12D, 12E, 13A, 13B, 13C, 13D, Coral Springs, FL

Fremd Village & Padgett Island Homes Lift Station Replacement, Pahokee, FL

Lift Station Conversion/Upgrade (A-3, A-8, W-6 and W-26), Hollywood, FL

**Pompano Beach Lift Station No 21 – Pompano Beach, FL - \$3,749,000.00**

Lift Station 801 Rehabilitation, Boynton Beach, FL

**Central District Flushing Water System Improvements-Phase 1, MDWAS - \$1,010,210.00**

Reclaimed Water Main- Area 11B, Delray Beach, FL

Lift Station 14, 20 and 64 Rehabilitation, Deerfield Beach, FL

Phase II System wide Upgrades, PS A-14, A40, B-9, D-33, D-35, D-36, Ft. Lauderdale, FL

Rehabilitation of Storm Water, PS OL-1, Village of Key Biscayne, FL

Lift Stations 6, 27, and 61 Rehabilitation, Deerfield Beach, FL

Sanitary Sewer Lift Stations B-3 and 8 Rehabilitation, Oakland Park, FL

Area 11 A Reclaimed Water System-Contract 2, Delray Beach, FL

Lift Station Improvement, Dania Beach, FL

Riverside/Victoria/Edgewater (8) Pump Station Installation, Ft. Lauderdale, FL

**Fiveash Water Treatment Plant, Ft. Lauderdale, FL - \$1,100,812.97**

Sewer Area 4, Basins B & C, Ft. Lauderdale, FL

Shady Banks WM Replacement, Ft. Lauderdale, FL

Septic Area 3, 4, and 5, Ft. Lauderdale, FL

Group 1 and Group 2 Pump Station Rehabilitation, Ft. Lauderdale, FL

Croissant Park, Basin C, Ft. Lauderdale, FL

Country Oaks Lane Improvements, Palm Beach County, FL

North Miami Beach Alley, Reconstruction of Alley, Phase 6-9, North Miami Beach, FL

Transite Water Main Replacement, West Palm Beach, FL

Lift Station 24 Improvements, Pompano Beach, FL

6<sup>th</sup> Street West of Dixie Highway Sanitary Sewer, West Palm Beach, FL

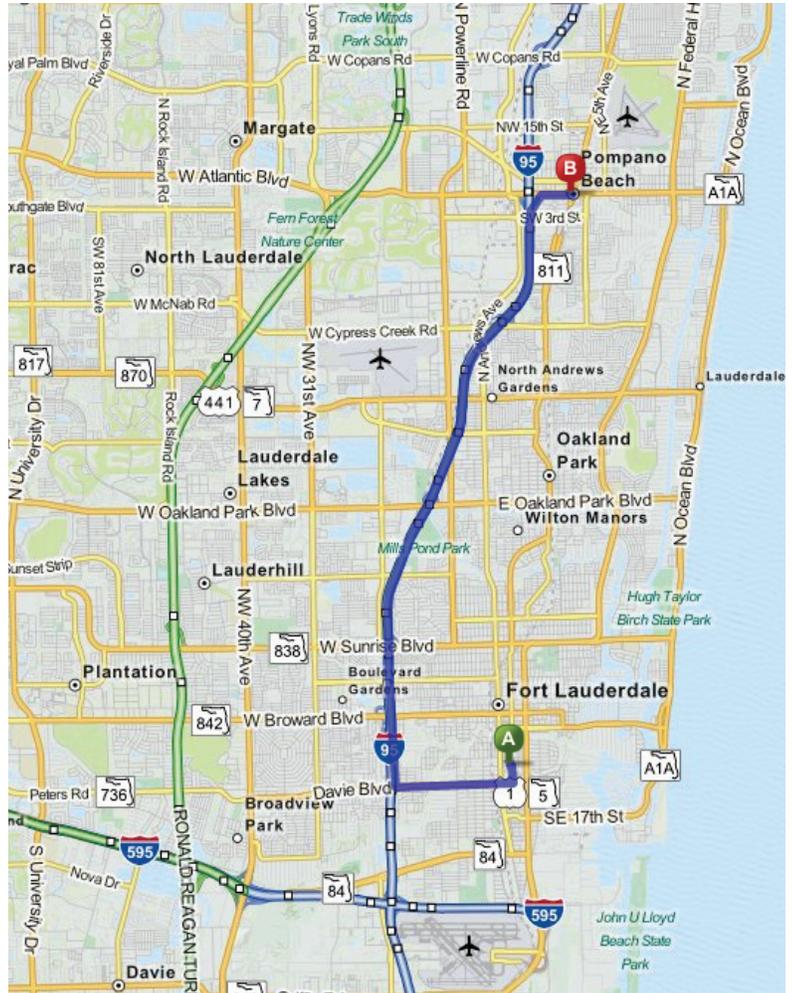
Tropic Vista Water Distribution System, Village of Tequesta, FL

Pump Station 2003 PS 21 & 45, Lauderhill, FL  
Sewer Main Repair, NW 21<sup>st</sup> Avenue & Oakland Park Blvd., Oakland Park, FL  
Seacoast Lift Station No. 21 Force Main Relocation, Seacoast Utility Authority, FL  
Municipal Golf Course Reclaimed Watermain, Delray Beach, FL  
Basins S-4 and S-5 Pumping Station, South Broward Drainage District  
Switchgear Bldg. No. 2 Structural Renovations, Hollywood, FL  
Broward County Lift Station Rehabilitation, Broward County, FL  
Lift Station 24 E1.1 Rehabilitation, Broward County, FL  
Davie Landfill Leachate Manholes Electrical Rack & Pump Replacement, Broward County, FL  
Hollywood Lift Station Conversions, Hollywood, FL  
Pahokee Lift Stations, Pahokee, FL  
Rehabilitation of Lift Stations, Coral Springs, FL  
Rehabilitation of Lift Station 2012, Deerfield Beach, FL  
Rehabilitation of Lift Station 35, Delray Beach, FL

## Office Locations

Services provided on this contract will be managed and primarily rendered by staff working in our Fort Lauderdale office. As shown on the map below, this office is located just 11 miles in driving distance from the City of Pompano Beach. Our close proximity will provide the City with the benefit of having our staff close by to respond to your requests for meetings, site visits, etc. This will facilitate a close working relationship and regular communication with the City.

**Prime Consultant  
Managing Office Location**  
 Nadia G. Locke, PE, LEED AP  
 Contract Manager  
 E Sciences, Incorporated  
 224 SE 9<sup>th</sup> Street  
 Fort Lauderdale, Florida 33316  
 Tel. (954) 484-8500 Fax. (954) 484-5146  
 Cell. (954) 937-9678  
 Email. [nlocke@esciencesinc.com](mailto:nlocke@esciencesinc.com)



We have assembled a team of professionals who have the expertise to assist the City of Pompano Beach in reaching its goals. The following table provides the number of professional and administrative staff at this prime office location.

Discipline	Number of Staff
Administrative	1
Environmental Engineer	3
Environmental Scientist	11
GIS Specialist	2
Geologist	1

### Subconsultant / Subcontractor Locations

The E Sciences' team includes the following subconsultants providing support services that may be utilized to assist on this contract. Their prime office locations are listed below.



**AirQuest Environmental, Inc.**

6851 Southwest 45th Street, Fort Lauderdale, Florida 33314  
Tel. (954) 792-4549 Fax. (954) 792-2221



**Intercounty Engineering, Inc.**

1925 NW 18th Street 3307, Pompano Beach, Florida 33069  
Tel. (954) 972-9800 Fax: (954) 974-0042



**QuEST Engineering**

2737 NW. 19th Street, Pompano Beach, Florida 33069  
Tel. (954) 582 9800

The following lists office locations of the subcontractors that will be providing support services, but not professional services:



**JAEE Environmental Service, Inc.**

3101 Peachtree Circle, Davie, Florida 33328  
Tel. (954) 476-8333 Fax. (954) 476-8347



**Pace Analytical Labs**

3610 Park Central Boulevard North, Pompano Beach, Florida 33064  
Tel. (954) 582-4300 Fax. (954) 582-4344

All of our subconsultants and subcontractors will provide services from offices located within the tri-county area (Broward, Palm Beach, and Miami-Dade counties).

## Local Businesses

E Sciences selected subconsultants and subcontractors based upon their proximity to the City, and our working knowledge of their skills, quality and service. We have included three local subcontractors:

- Pace Analytical Laboratories, Inc.
- QuEST Engineering and Testing Services
- Intercounty Engineering

The completed applicable Local Business program forms, Exhibits A-D are found on the following pages.

REQUESTED INFORMATION BELOW IS ON LOCAL BUSINESS PROGRAM FORM ON THE BID ATTACHMENTS TAB. BIDDERS ARE TO COMPLETE FORM IN ITS ENTIRETY AND INCLUDE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

CITY OF POMPANO BEACH, FLORIDA  
 LOCAL BUSINESS PARTICIPATION FORM

Solicitation # & Title: Continuing Contract for Professional Environmental Testing E-22-20 Prime Contractor's Name: E Sciences, Incorporated

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed/Materials to be Purchased	Contract Amount
Pace Analytical Laboratories, Inc. 3610 Park Central Blvd. North, Pompano Beach, Florida 33064	Neshmah Castaneda Tel. (954) 582-4300	Asbestos, Radon, Lead Paint, Mold, Indoor Air Quality	TBD
Quest Engineering Services & Testing, Inc. 2737 NW 19th Street, Pompano Beach, Florida 33069	R.N. Sailappan, PE Tel. (954) 582 9800	Geotechnical Surveys	TBD
Intercountry Engineering, Inc. 1925 NW 18th Street 3307, Pompano Beach, Florida 33069	Luis Fernando Condylva Tel. (954) 972-9800	Water and Wastewater Support Services	TBD



LOCAL BUSINESS EXHIBIT "B"  
LOCAL BUSINESS  
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-22-20

TO: E Sciences, Incorporated  
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

an individual  a corporation  
 a partnership  a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Geotechnical Services  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

at the following price: Price will be negotiated with City as these projects are requested by City.

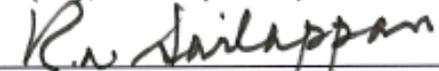
July 31, 2020  
(Date)

Quest Engineering Services  
(Print Name of Local Business Contractor)

2737 NW 19 Street

(Street Address)

Pompano Beach, FL - 33069  
(City, State Zip Code)

BY:   
(Signature)

**IMPORTANT NOTE:** Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

**LOCAL BUSINESS EXHIBIT "B"**  
**LOCAL BUSINESS**  
**LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR**

Solicitation Number E-22-20

TO: E Sciences, Incorporated  
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

an individual  a corporation  
 a partnership  a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Support for water, wastewater, sewer, force main, lift station, inspection and repairs related as needed.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

at the following price: Price will be negotiated with City as these projects are requested by City.

07/31/20  
(Date)

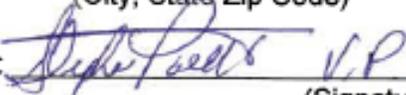
Intercounty Engineering, Inc.  
(Print Name of Local Business Contractor)

1925 NW 18 Street

(Street Address)

Pompano Beach, FL 33069

(City, State Zip Code)

BY:  V.P.  
(Signature)

**IMPORTANT NOTE:** Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

**LOCAL BUSINESS EXHIBIT "B"**

N/A

LOCAL BUSINESS EXHIBIT "C"  
LOCAL BUSINESS UNAVAILABILITY FORM

Solicitation # \_\_\_\_\_

I, \_\_\_\_\_  
(Name and Title)

of \_\_\_\_\_, certify that on the \_\_\_\_\_ day of

\_\_\_\_\_, \_\_\_\_\_, I invited the following LOCAL BUSINESS(s) to bid work  
(Month) (Year)

items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)

Said Local Businesses:

- \_\_\_ Did not bid in response to the invitation
- \_\_\_ Submitted a bid which was not the low responsible bid
- \_\_\_ Other: \_\_\_\_\_

Name and Title: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Attach additional documents as available.

LOCAL BUSINESS EXHIBIT "C"

LOCAL BUSINESS EXHIBIT "D"  
GOOD FAITH EFFORT REPORT LOCAL BUSINESS PARTICIPATION

N/A

Solicitation # \_\_\_\_\_

1. What portions of the contract have you identified as Local Business opportunities?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Did you send written notices to Local Businesses?

Yes       No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

Yes       No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

\_\_\_\_\_  
\_\_\_\_\_

7. List the Local Businesses you will utilize and subcontract amount.

_____	\$ _____
_____	\$ _____
_____	\$ _____

8. Other comments: \_\_\_\_\_

\_\_\_\_\_

## Litigation

E Sciences has no litigation within the past five (5) years arising from E Sciences performance.

## City Forms

E Sciences has completed the Proposer Information Page Form (next page). All other required forms are submitted under the header where they were identified. We will also submit electronically through the City's eBid System.

**COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRETY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.**

**VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS**

Respondent Vendor Name: E Sciences, Incorporated

Vendor FEIN: 59-3667002

Section 287.135, Florida Statutes, prohibits agencies from contracting with companies, for goods or services over \$1,000,000, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. Further, Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to sign electronically on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs.

I Certify



## Financial Information

E Sciences Income Statement follows on the next four pages.

## CONFIDENTIAL

## Income Statement

Wednesday, July 15, 2020  
10:36:41 AM

E Sciences, Incorporated

As of period 12/27/2019

		Year-to-Date
		Revenue
4010.00	Billed Fee Revenue	
	Total for Billed Fee Revenue	6,891,486.95
4020.00	Unbilled Revenue	
	Total for Unbilled Revenue	(166,754.29)
	Subtotal	6,724,732.66
4210.00	Reimb Consultant Revenue	
	Total for Reimb Consultant Revenue	1,366,751.42
4220.00	Reimb Expense Revenue	
	Total for Reimb Expense Revenue	89,915.11
	Subtotal	1,456,666.53
4500.00	Subconsultant Expenses	
	Total for Subconsultant Expenses	(1,306,335.04)
	Subtotal	(1,306,335.04)
	Total Revenue	6,875,064.15
		Reimbursables
5150.00	Subconsultant	
	Total for Subconsultant	
5200.00	Outside Services	
	Total for Outside Services	16,795.27
5201.00	Staff Services	
	Total for Staff Services	24,668.84
5210.00	Travel, Meals & Lodging	
	Total for Travel, Meals & Lodging	33,556.45
5211.00	Vehicle & Mileage usage	
	Total for Vehicle & Mileage usage	82,182.55
5220.00	Inhouse-Reproductions	
	Total for Inhouse-Reproductions	7.80
5221.00	Reproductions	
	Total for Reproductions	3,483.40
5230.00	Permits Fees	
	Total for Permits Fees	11,801.02
5240.00	Telephone/Cell Phones	
	Total for Telephone/Cell Phones	1,437.87
5245.00	Supplies and Material	
	Total for Supplies and Material	21,854.35
5246.00	Postage and Shipping	
	Total for Postage and Shipping	603.27
	Subtotal	196,390.82
5300.00	Equipment/Software	
	Total for Equipment/Software	2,555.82
5301.00	Equipment Rental	
	Total for Equipment Rental	25,296.61
5302.00	In-house Equipment Rental	
	Total for In-house Equipment Rental	1,805.23
	Subtotal	29,657.66
6000.00	Extraordinary expenses	
	Total for Extraordinary expenses	63,677.42
	Subtotal	63,677.42
	Total Reimbursables	289,725.90
	Revenue Less Reimbursables	6,585,338.25
		Directs
6010.00	Direct Labor	
	Total for Direct Labor	1,944,421.67
6010.01	Direct Labor-JM	

Income Statement		As of period 12/27/2019	Wednesday, July 15, 2020 10:36:41 AM
		Year-to-Date	
Total for Direct Labor-JM		98,954.83	
6020.00	Direct Labor - Not Billable		
Total for Direct Labor - Not Billable		50,832.12	
		<b>Subtotal</b>	2,094,208.62
		<b>Total Directs</b>	2,094,208.62
<b>Revenue Less Reimbursables, Directs</b>		4,491,129.63	
<b>Indirects</b>			
7010.00	Indirect-Admin.& Proposal Projects		
Total for Indirect-Admin.& Proposal Projects		1,054,492.98	
7030.00	Job Cost Variance		
Total for Job Cost Variance		(106,152.97)	
7060.00	Indirect - Holiday		
Total for Indirect - Holiday		93,776.76	
7070.00	Indirect - Proposal & Marketing		
Total for Indirect - Proposal & Marketing		134,306.75	
7080.00	Indirect - Training & Development		
Total for Indirect - Training & Development		91,987.71	
7090.00	Indirect - PTO/Vacation		
Total for Indirect - PTO/Vacation		255,219.40	
7092.00	Comp Time Accrued		
Total for Comp Time Accrued		12,963.28	
		<b>Subtotal</b>	1,536,593.91
7110.00	Bonus		
Total for Bonus		114,352.40	
7111.00	Auto Allowance		
Total for Auto Allowance		15,047.16	
7120.00	Pension/Profit Sharing		
Total for Pension/Profit Sharing		67,699.23	
		<b>Subtotal</b>	197,098.79
7210.00	Employer Payroll Taxes		
Total for Employer Payroll Taxes		276,776.83	
7220.00	Futa and Suta Taxes		
Total for Futa and Suta Taxes		3,480.53	
7240.00	Workers' Compensation		
Total for Workers' Compensation		20,644.00	
		<b>Subtotal</b>	300,901.36
7310.00	Health Care Insurance		
Total for Health Care Insurance		210,925.30	
7315.00	Officer Insurance		
Total for Officer Insurance		88,054.81	
7320.00	Life Insurance		
Total for Life Insurance		7,334.02	
7330.00	Disability Insurance		
Total for Disability Insurance		11,495.32	
7340.00	Dental and Other Insurance		
Total for Dental and Other Insurance		15,907.10	
7370.00	Prof Registration & Dues		
Total for Prof Registration & Dues		6,648.73	
7380.00	Employee Parking Benefits		
Total for Employee Parking Benefits		6,045.35	
7390.00	Other Employee Benefits		
Total for Other Employee Benefits		32,772.94	
		<b>Subtotal</b>	379,183.57
7430.00	Office Supplies		
Total for Office Supplies		32,648.87	
7431.00	Other Supplies		
Total for Other Supplies		4,761.44	
7440.00	Telephone/Internet		

Income Statement	As of period 12/27/2019	Wednesday, July 15, 2020 10:36:41 AM
	Year-to-Date	
Total for Telephone/Internet	29,884.26	
7441.00 Cell Phones		
Total for Cell Phones	16,687.09	
7450.00 Postage/Ship/Delivery		
Total for Postage/Ship/Delivery	8,127.60	
7455.00 Membership, Subscriptions, Periodical		
Total for Membership, Subscriptions, Periodical	21,650.39	
7456.00 Conferences		
Total for Conferences	79,971.14	
7460.00 Equipment Rental		
Total for Equipment Rental	14,460.84	
7470.00 Equip. Repairs & Maintenance		
Total for Equip. Repairs & Maintenance	8,035.77	
7471.00 Equipment and Furniture		
Total for Equipment and Furniture	3,020.61	
7472.00 Computer/Software		
Total for Computer/Software	12,453.50	
7473.00 Computer/Software Maint.		
Total for Computer/Software Maint.	89,521.54	
7480.00 Printing & Reproductions		
Total for Printing & Reproductions	2,562.34	
7491.00 Credit Card		
Total for Credit Card		
	<b>Subtotal</b>	<b>323,785.39</b>
7500.00 Rent		
Total for Rent	367,697.37	
7501.00 Utilities		
Total for Utilities	26,971.45	
7502.00 Building Repair & Maint.		
Total for Building Repair & Maint.	35,635.01	
7503.00 Property Tax (tangible)		
Total for Property Tax (tangible)	427.93	
7510.00 Legal		
Total for Legal	8,948.85	
7520.00 Accounting/Audit/Tax		
Total for Accounting/Audit/Tax	64,423.04	
7524.00 Parking		
Total for Parking	4,131.20	
7525.00 Outside Services		
Total for Outside Services	10,834.38	
7530.00 Licenses and Permits		
Total for Licenses and Permits	5,093.32	
7540.00 Interest Expense		
Total for Interest Expense	3,814.73	
7541.00 Bank Charges		
Total for Bank Charges	2,353.67	
7550.00 Prof.Liability Insurance		
Total for Prof.Liability Insurance	35,772.32	
7560.00 Other Commercial Ins,		
Total for Other Commercial Ins,	13,463.96	
7571.00 Contribution Charitable		
Total for Contribution Charitable	758.79	
	<b>Subtotal</b>	<b>580,326.02</b>
7609.00 PKP/JSB Auto Loans		
Total for PKP/JSB Auto Loans	35,474.74	
7610.00 Auto Gas & Oil		
Total for Auto Gas & Oil	33,323.40	
7611.00 Autos Others		

Income Statement	As of period 12/27/2019	Wednesday, July 15, 2020 10:36:41 AM
	Year-to-Date	
Total for Autos Others	7,655.49	
7612.00 Auto Parking		
Total for Auto Parking	7,660.45	
7613.00 Auto Expenses		
Total for Auto Expenses	2,742.05	
7620.00 Auto Repairs		
Total for Auto Repairs	13,084.89	
7630.00 Auto Registration		
Total for Auto Registration	643.80	
7650.00 Auto Insurance		
Total for Auto Insurance	25,148.17	
	<b>Subtotal</b>	<b>125,732.99</b>
7700.00 Travel		
Total for Travel	10,134.65	
7702.00 Meals		
Total for Meals	4,803.08	
7703.00 Hotel		
Total for Hotel	4,617.63	
	<b>Subtotal</b>	<b>19,555.36</b>
7800.00 Bid & Proposal Cost		
Total for Bid & Proposal Cost	1,038.79	
7801.00 Bid & Proposal Meals and Travel		
Total for Bid & Proposal Meals and Travel	6,026.81	
7802.00 Trade Shows Technical		
Total for Trade Shows Technical	1,778.00	
7803.00 Trade Shows Exp.		
Total for Trade Shows Exp.	1,314.38	
7805.00 Unallowable Marketing Expenses		
Total for Unallowable Marketing Expenses	6,036.48	
	<b>Subtotal</b>	<b>16,194.46</b>
7905.00 Bad Debt Write Offs		
Total for Bad Debt Write Offs	(7,293.38)	
7910.00 Printing/Repro		
Total for Printing/Repro	(7.80)	
7920.00 Billable Vehicles Exp.		
Total for Billable Vehicles Exp.	(50,427.63)	
	<b>Subtotal</b>	<b>(57,728.81)</b>
	<b>Total Indirects</b>	<b>3,421,643.04</b>
	<b>Total Operating Expenses</b>	<b>5,805,577.56</b>
	<b>Total Operating Profit/Loss</b>	<b>1,069,486.59</b>
<b>Other Charges</b>		
9001.00 Interest Income		
Total for Interest Income	(4,941.21)	
9004.00 Other Owners Expenses		
Total for Other Owners Expenses	58,313.48	
9006.00 W.O projects		
Total for W.O projects	524,113.85	
9007.00 Depreciation		
Total for Depreciation	68,915.58	
9009.00 Deferred Compensation Exp		
Total for Deferred Compensation Exp	82,230.01	
	<b>Subtotal</b>	<b>728,631.71</b>
	<b>Total Other Charges</b>	<b>728,631.71</b>
	<b>Total Profit/Loss</b>	<b>340,854.88</b>

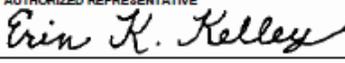
# Insurance

	<b>ESCIE-1</b>	<b>OP ID: BB</b>
<b>CERTIFICATE OF LIABILITY INSURANCE</b>		DATE (MMDD/YYYY) 11/04/2019
<p>THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.</p>		
<p><b>IMPORTANT:</b> If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).</p>		
PRODUCER JCJ Insurance Agency 2208 Hillcrest Street Orlando, FL 32803 Erin K. Kelley	321-445-1117	CONTACT NAME: Kristin McIntosh PHONE (A/C, No, Ext): 321-445-1117      FAX (A/C, No): 321-445-1076 E-MAIL ADDRESS: certs@jcj-insurance.com
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: Continental Casualty Company		20443
INSURER B: Old Dominion Insurance Co.		40231
INSURER C: The Zenith Insurance Co.		13269
INSURER D: Scottsdale Insurance Company		41297
INSURER E:		
INSURER F:		

<b>COVERAGES</b>	<b>CERTIFICATE NUMBER:</b>	<b>REVISION NUMBER:</b>					
<p>THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.</p>							
INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			B6074584025	11/02/2019	11/02/2020	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COM/PROP AGG \$ 4,000,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			B1T6941T	11/02/2019	11/02/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			B6074584039	11/02/2019	11/02/2020	EACH OCCURRENCE \$ 3,000,000 AGGREGATE \$ 3,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NY) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	Z133790603	11/02/2019	11/02/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liab			BK1076896	11/02/2019	11/02/2020	Per Claim \$ 2,000,000
D	Pollution Liab			BK1076896	11/02/2019	11/02/2020	Aggregate \$ 3,000,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)							

<b>CERTIFICATE HOLDER</b>	<b>CANCELLATION</b>
FORPROP	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
For Proposal Purposes	AUTHORIZED REPRESENTATIVE 

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**Orlando**

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

**Fort Lauderdale**

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

**Miami**

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

**DeLand**

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

**Clearwater**

2329 Sunset Point Road, Suite 200  
Clearwater, Florida



**E SCIENCES, INCORPORATED  
CITY OF POMPANO BEACH  
2021 SCHEDULE OF FEES**

**A. PERSONNEL**

Charges will be made at the following rates for staff time spent in administration, consultation or meetings related to the project, field inspection and evaluation, review and analysis of field and laboratory data, travel time, report preparation and review, etc.

	<u>Rate Per Hour</u>
<b>PRINCIPAL</b> Registered Engineer/Geologist/Scientist	\$242.00
<b>DIRECTOR/CHIEF</b> Engineer/Geologist/Scientist	\$242.00
<b>SENIOR II</b> Registered Engineer/Geologist/Scientist	\$215.00
<b>SENIOR I</b> Registered Engineer/Geologist/Scientist	\$176.00
<b>PROJECT II</b> Engineer/Geologist/Scientist	\$149.00
<b>PROJECT I</b> Engineer/Geologist/Scientist	\$132.00
<b>STAFF II</b> Engineer/Geologist/Scientist	\$116.00
<b>STAFF I</b> Engineer/Geologist/Scientist	\$99.00
<b>SENIOR GIS Analyst</b>	\$132.00
<b>CADD/GIS Analyst</b>	\$99.00
<b>TECHNICIAN II</b>	\$88.00
<b>TECHNICIAN I</b>	\$77.00
<b>ADMINISTRATIVE ASSISTANT/CLERICAL SUPPORT</b>	\$66.00

**B. EXPENSES**

- 1) Direct non-salary expenses incurred by the project and not applicable to general overhead will be invoiced at our cost multiplied by 1.15. Examples of direct expenses include project supplies, travel and lodging.

**C. SUBCONTRACTS**

- 1) Subcontract services outside E Sciences, Incorporated (if required) will be invoiced at our cost multiplied by 1.15.

**D. ESCALATION FOR MULTI-YEAR CONTRACTS**

- 1) Escalation rates will apply one year after the effective date of the contract.
- 2) The escalation labor rate will be 3% per category per year.

## EXHIBIT C

### INSURANCE REQUIREMENTS

CONSULTANT shall not commence services under the terms of this Agreement until certification or proof of insurance detailing terms and provisions has been received and approved in writing by the CITY's Risk Manager. If you are responding to a bid and have questions regarding the insurance requirements hereunder, please contact the City's Purchasing Department at (954) 786-4098. If the contract has already been awarded, please direct any queries and proof of the requisite insurance coverage to City staff responsible for oversight of the subject project/contract.

CONSULTANT is responsible to deliver to the CITY for timely review and written approval/disapproval Certificates of Insurance which evidence that all insurance required hereunder is in full force and effect and which name on a primary basis, the CITY as an additional insured on all such coverage.

Throughout the term of this Agreement, CITY, by and through its Risk Manager, reserve the right to review, modify, reject or accept any insurance policies required by this Agreement, including limits, coverages or endorsements. CITY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as CITY's review or acceptance of insurance maintained by CONSULTANT, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by CONSULTANT under this Agreement.

Throughout the term of this Agreement, CONSULTANT and all subcontractors or other agents hereunder, shall, at their sole expense, maintain in full force and effect, the following insurance coverages and limits described herein, including endorsements.

A. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. CONSULTANT further agrees to be responsible for employment, control and conduct of its employees and for any injury sustained by such employees in the course of their employment.

B. Liability Insurance.

(1) Naming the City of Pompano Beach as an additional insured as CITY's interests may appear, on General Liability Insurance only, relative to claims which arise from CONSULTANT's negligent acts or omissions in connection with CONSULTANT's performance under this Agreement.

(2) Such Liability insurance shall include the following checked types of insurance and indicated minimum policy limits.

**Type of Insurance****Limits of Liability****GENERAL LIABILITY:**

Minimum 1,000,000 Per Occurrence and  
\$1,000,000 Per Aggregate

\* Policy to be written on a claims incurred basis

XX	comprehensive form	bodily injury and property damage
XX	premises - operations	bodily injury and property damage
—	explosion & collapse hazard	
—	underground hazard	
XX	products/completed operations hazard	bodily injury and property damage combined
XX	contractual insurance	bodily injury and property damage combined
XX	broad form property damage	bodily injury and property damage combined
XX	independent contractors	personal injury
XX	personal injury	

**AUTOMOBILE LIABILITY:**

Minimum \$1,000,000 Per Occurrence and \$1,000,000 Per Aggregate. Bodily injury (each person) bodily injury (each accident), property damage, bodily injury and property damage combined.

- XX comprehensive form
- XX owned
- XX hired
- XX non-owned

**REAL & PERSONAL PROPERTY**

— comprehensive form Agent must show proof they have this coverage.

**EXCESS LIABILITY**

Per Occurrence Aggregate

XX	Umbrella and other than umbrella	bodily injury and property damage combined	\$2,000,000	\$2,000,000
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**PROFESSIONAL LIABILITY**

Per Occurrence Aggregate

XX	* Policy to be written on a claims made basis		\$2,000,000	\$2,000,000
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(3) If Professional Liability insurance is required, CONSULTANT agrees the indemnification and hold harmless provisions set forth in the Agreement shall survive the termination or expiration of the Agreement for a period of three (3) years unless terminated sooner by the applicable statute of limitations.

C. Employer's Liability. If required by law, CONSULTANT and all subcontractors shall, for the benefit of their employees, provide, carry, maintain and pay for Employer's Liability

Insurance in the minimum amount of One Hundred Thousand Dollars (\$100,000.00) per employee, Five Hundred Thousand Dollars (\$500,000) per aggregate.

D. Policies: Whenever, under the provisions of this Agreement, insurance is required of the CONSULTANT, the CONSULTANT shall promptly provide the following:

- (1) Certificates of Insurance evidencing the required coverage;
- (2) Names and addresses of companies providing coverage;
- (3) Effective and expiration dates of policies; and
- (4) A provision in all policies affording CITY thirty (30) days written notice by a carrier of any cancellation or material change in any policy.

E. Insurance Cancellation or Modification. Should any of the required insurance policies be canceled before the expiration date, or modified or substantially modified, the issuing company shall provide thirty (30) days written notice to the CITY.

F. Waiver of Subrogation. CONSULTANT hereby waives any and all right of subrogation against the CITY, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONSULTANT shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy which includes a condition to the policy not specifically prohibiting such an endorsement, or voids coverage should CONSULTANT enter into such an agreement on a pre-loss basis.



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/5/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> JCJ Insurance Agency, LLC 2208 Hillcrest Street Orlando, FL 32803	<b>CONTACT NAME:</b> PHONE (A/C, No, Ext): <b>(321) 445-1117</b>	FAX (A/C, No): <b>(321) 445-1076</b>
	<b>E-MAIL ADDRESS:</b>	
	<b>INSURER(S) AFFORDING COVERAGE</b>	
	<b>INSURER A : Continental Casualty Company</b>	<b>NAIC # 20443</b>
	<b>INSURER B : Old Dominion Insurance Co.</b>	<b>40231</b>
	<b>INSURER C : The Zenith Insurance Co.</b>	<b>13269</b>
	<b>INSURER D : Scottsdale Insurance Company</b>	<b>41297</b>
	<b>INSURER E :</b>	
	<b>INSURER F :</b>	

**INSURED**

E Sciences, Inc  
 34 E. Pine St  
 Orlando, FL 32801

### COVERAGES

### CERTIFICATE NUMBER:

### REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	X	X	6074584025	11/2/2020	11/2/2021	EACH OCCURRENCE \$ <b>2,000,000</b> DAMAGE TO RENTED PREMISES (Ea occurrence) \$ <b>300,000</b> MED EXP (Any one person) \$ <b>10,000</b> PERSONAL & ADV INJURY \$ <b>2,000,000</b> GENERAL AGGREGATE \$ <b>4,000,000</b> PRODUCTS - COMPI/OP AGG \$ <b>4,000,000</b> \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	X	X	B2T6941T	11/2/2020	11/2/2021	COMBINED SINGLE LIMIT (Ea accident) \$ <b>1,000,000</b> BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ <b>10,000</b>	X	X	6074584039	11/2/2020	11/2/2021	EACH OCCURRENCE \$ <b>3,000,000</b> AGGREGATE \$ <b>Aggregate</b> \$ <b>3,000,000</b>
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	X	Z133790605	11/2/2020	11/2/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ <b>1,000,000</b> E.L. DISEASE - EA EMPLOYEE \$ <b>1,000,000</b> E.L. DISEASE - POLICY LIMIT \$ <b>1,000,000</b>
D	Professional Liab			VRS0004838	11/2/2020	11/2/2021	Per Claim <b>2,000,000</b>
D	Pollution Liability			VRS0004838	11/2/2020	11/2/2021	Aggregate <b>3,000,000</b>

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
RE: RLI E-20-20: Continuing Contract for Professional Environmental Testing. Certificate Holder is an Additional Insureds with regards to General, Auto & Umbrella Liability when required by written contract. Coverage is Primary & Non-Contributory with respect to all policies. A Waiver of Subrogation for all policies applies when required by written contract. 30 Day Notice of Cancellation, except for 10 days for non-payment.

**APPROVED**  
*Danielle Thorpe*  
 By Danielle Thorpe at 5:59 pm, Apr 01, 2021

<b>CERTIFICATE HOLDER</b>  City of Pompano Beach City Clerk 100 W. Atlantic Blvd., Suite 253 Pompano Beach, FL 33060	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE <i>Erin K. Kelley</i>
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