

CONTRACT FOR PROFESSIONAL CONSULTING SERVICES

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 Arcadis U.S., Inc. a Delaware corporation, authorized to do business in the State of Florida, 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. 25-072 attached hereto as Exhibit "A" and incorporated herein in its entirety.

The Consultant's representative shall be Leah K. Richter, PE

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. 25-072, professional services under this contract will be restricted to the amounts required by §287.055, Florida Statutes.

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 ninety (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 – CONTRACT DOCUMENTS

This Agreement consists of the Solicitation set forth in Exhibit “A”, the Consultant’s Response set forth in Exhibit “B” (collectively, the “Work”) and, the Insurance Requirements set forth in Exhibit “C,” all of which are attached and made a part of this Agreement. 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 Agreement and the provisions in the incorporated Exhibits, resolution shall be attained by giving precedence in the following order: (i) this Agreement, (ii) Exhibit “A”, and (iii) Exhibit “C”.

ARTICLE 5 – 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 6 – 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 7 – 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 8 – 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 9 – 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 10 – 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 11 - 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 12 – INDEMNIFICATION

A. Consultant shall at all times indemnify, hold harmless the City, its officials, officers, 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 13 – 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 14 – 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 15 – 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 16 – 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 17 – 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 18 – 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

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 19 – 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 20 – 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 21 – 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 22 – 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 23 – 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 24 – 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 25 – 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 26 – Modification of Work.

ARTICLE 26 – 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 two hundred thousand dollars (\$200,000.00), 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 27 – NOTICE

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

FOR CITY:

Greg Harrison
City Manager
City of Pompano Beach
Post Office Drawer 1300
Pompano Beach, Florida 33061
Greg.Harrison@copbfl.com

FOR CONSULTANT:

Leah Richter, PE, Principal in Charge
150 S. Pine Island Rd., Suite 315
Plantation, FL 33324
Office: 954.525.2499
Email: leah.richter@arcadis.com

ARTICLE 28 – 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 29 – 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 30 – 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 27 above.

ARTICLE 31 – GOVERNING LAW; VENUE; WAIVER OF JURY TRIAL

This Agreement shall be interpreted and construed in accordance with and governed by the laws of the State of Florida. The exclusive venue for any litigation arising from, related to, or in connection with this Agreement shall be in the Seventeenth Judicial Circuit in and for Broward County, Florida, or in the United States District Court for the Southern District of Florida, or the United States Bankruptcy Court for the Southern District of Florida, as applicable. BY ENTERING INTO THIS AGREEMENT, THE PARTIES EXPRESSLY WAIVE ANY RIGHTS EITHER PARTY MAY HAVE TO A TRIAL BY JURY OF ANY CIVIL LITIGATION RELATED TO THIS AGREEMENT.

ARTICLE 32 – EMPLOYMENT ELIGIBILITY

By entering into this Contract, the Consultant becomes obligated to comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility." This includes but is not limited to utilization of the E-Verify System to verify the work authorization status of all newly hired employees, and requiring all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Failure to comply will lead to termination of this Contract, or if a subcontractor knowingly violates the statute, the subcontract must be terminated immediately. Any challenge to termination under this provision must be filed in the Circuit or County Court no later than twenty (20) calendar days after the date of termination. If this Contract is terminated for a violation of the statute by the Consultant, the Consultant may not be awarded a public contract for a period of one (1) year after the date of termination

ARTICLE 33 - BINDING EFFECT

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

ARTICLE 34 - SCRUTINIZED COMPANIES

By execution of this Agreement, in accordance with the requirements of F.S. 287.135 and F.S. 215.473, Consultant certifies that Consultant is not participating in a boycott of Israel. Consultant further certifies that Consultant is not on the Scrutinized Companies that Boycott Israel list, not on the Scrutinized Companies with Activities in Sudan List, and not on the Scrutinized Companies with Activities in Iran Terrorism Sectors List, nor has Consultant been engaged in business operations in Syria. Subject to limited exceptions provided in state law, the City will not contract for the provision of goods or services with any scrutinized company referred to above. In accordance with Section 287.135, Florida Statutes as amended, a company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with any agency or local government entity for goods or services of:

A. Any amount if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel; or

B. One million dollars or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company:

i. Is on the Scrutinized Companies with Activities in Sudan List of the Scrutinized Companies with Activities in Iran Terrorism Sectors List, created pursuant to Section 215.473, Florida Statutes; or

ii. Is engaged in business operations in Syria.

C. Submitting a false certification or being placed on a list created pursuant to Section 215.473, Florida Statutes relating to scrutinized active business operations in Iran after Consultant has submitted a certification, shall be deemed a material breach of contract. The City shall provide notice, in writing, to Consultant of the City's determination concerning the false certification. Consultant shall have five (5) days from receipt of notice to refute the false certification allegation. If such false certification is discovered during the active contract term, Consultant shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination of false certification was made in error. If Consultant does not demonstrate that the City's determination of false certification was made in error then the City shall have the right to terminate the contract and seek civil remedies pursuant to Section 287.135, Florida Statutes, as amended from time to time.

ARTICLE 35 - AFFIDAVIT OF COMPLIANCE WITH ANTI-HUMAN TRAFFICKING LAWS

In accordance with section 787.06 (13), Florida Statutes, the undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury that:

Entity does not use coercion for labor or services as defined in Section 787.06, Florida Statutes, entitled "Human Trafficking".

ARTICLE 36 - AFFIDAVIT OF COMPLIANCE WITH FOREIGN ENTITY LAWS

The undersigned, on behalf of the entity listed below (“Entity”), hereby attests under penalty of perjury as follows:

A. Entity is not owned by the government of a foreign country of concern as defined in Section 287.138, Florida Statutes.

B. The government of a foreign country of concern does not have a controlling interest in Entity.

C. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern.

D. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Section 692.201, Florida Statutes.

E. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Section 692.201, Florida Statutes, or a subsidiary of such entity.

F. Entity is not a foreign principal, as defined in Section 692.201, Florida Statutes.

G. Entity is in compliance with all applicable requirements of Sections 692.202, 692.203, and 692.204, Florida Statutes.

ARTICLE 37 – ANNUAL BUDGETARY FUNDING/CANCELLATION.

This Agreement and all obligations of the City hereunder requiring the expenditure of funds are subject to and contingent upon annual budgetary funding and appropriations by the City Commission.

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

KERVIN ALFRED, CITY CLERK

By: _____
REX HARDIN, MAYOR

APPROVED AS TO FORM:

By: _____
GREGORY P. HARRISON, CITY MANAGER

MARK E. BERMAN, CITY ATTORNEY

(SEAL)

"CONSULTANT"

Arcadis U.S., Inc.

Witnesses:

[Signature]
Signature
RIMZ Rajgire
Name Typed, Printed or Stamped

By: [Signature]
Leah K. Richter, PE Principal in Charge

[Signature]
Signature
Nichole Lynch
Name Type, Printed or Stamped

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this 17th day of MARCH, 2026, Leah K. Richter, PE, as Principal in Charge of Arcadis U.S., Inc., a Delaware corporation, authorized to do business in Florida, on behalf of the corporation, who is personally known to me or who has produced _____ as identification.

NOTARY'S SEAL:

[Signature]
NOTARY PUBLIC, STATE OF FLORIDA

Diego F Celeita
(Name of Acknowledger Typed, Printed or Stamped)
HH 675898
Commission Number

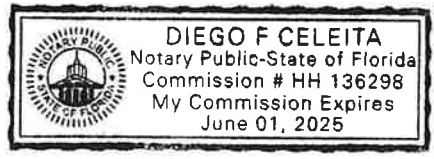


Exhibit A – Cover Page

1. Recommendation Tabulation

2. Solicitation RLI25-072

3. Addendum 1-5

4. Sunbiz



Florida's Warmest Welcome

Procurement & Contracts Department

Mary Rivero, Director

mary.rivero@copbfl.com

RLI #:	<u>RLI25-072</u>	Tentative City Commission Meeting Date*:	<u>TBD</u>
RLI Title:	<u>Water and Reuse Treatment Plant Projects - CCNA</u>	# Notified:	<u>145</u> # Downloaded: <u>14</u>
		# of Responses Rec'd:	<u>6</u> # of "No Bids": <u>1</u>
For:	<u>Utilities</u>	RFP Opening Date:	<u>OCTOBER 15, 2025</u>
	(Department)		

POSTING OF RFP RECOMMENDATION/TABULATION: RLI Recommendations and Tabulations will be posted in the eBid System IonWave on December 16, 2025, at 9:10 PM and will remain posted for 72 hours. Any person who may be adversely affected by the decision or intended decision shall file a notice of protest in writing within 72 hours of posting the notice of the decision or intended decision. The formal written protest shall be filed within ten (10) days after the date the notice of protest is filed. Failure to file a notice of protest or a formal written protest shall constitute a waiver of proceedings under this chapter. Section 120.57(3)(b), Florida Statutes, states that "The formal written protest shall state with particularity the facts and law upon which the protest is based." Saturdays, Sundays, state holidays, and days when the City is closed shall be excluded from the computation of the 72-hour time period provided. Filings shall be at the office of the Director of Procurement and Contracts, 1010 NE 3rd Avenue, Pompano Beach, FL 33060. Any person who files an action protesting an intended decision shall post with the City, at the time of filing the formal written protest, a protest bond, payable to the City of Pompano Beach, Florida, in an amount equal to one percent (1%) of the estimated value of the contract. Failure to submit the protest bond within the time allowed for filing a bond shall constitute a waiver of the right to protest. Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, or failure to post the protest bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

(*) The Cone of Silence, as stated in the solicitation, is in effect until the City Commission approves or rejects it. Confirm with the Purchasing Agent of record for the date the Cone of Silence has concluded.

RECOMMENDATION TABULATION

The City of Pompano Beach, Florida, issued Request for Letters of Interest (RLI25-072) Water and Reuse Treatment Plant Projects pursuant to the Consultants' Competitive Negotiation Act (CCNA). The solicitation closed with the receipt of six (6) Letters of Interest, all of which were reviewed and determined to be responsive and responsible submissions.

- ARCADIS US, INC.
- CAROLLO ENGINEERS, INC.
- HAZEN AND SAWYER.
- MCCAFFERTY BRINSON CONSULTING, LLC.
- STANTEC CONSULTING INC.
- TETRA TECH, INC.

On December 16, 2025, the appointed Evaluation Committee convened in accordance with the RLI, Procurement and Contracts Procedure Manual, and the Sunshine Law. The Committee conducted a comprehensive review of all responsive submissions, applying the published evaluation criteria to score and rank each firm.

Based on the evaluation results, the Evaluation Committee hereby recommends an award to the following five (5) highest-ranked firms (*) under RLI25-072 – Water and Reuse Treatment Plant Projects (CCNA):

FIRM	RANKING
MCCAFFERTY BRINSON CONSULTING, LLC.	1
CAROLLO ENGINEERS, INC.	2
ARCADIS US, INC.	3
HAZEN AND SAWYER (*)	4
STANTEC CONSULTING INC. (*)	5

(*) HAZEN AND SAWYER and STANTEC CONSULTING INC. received identical evaluation scores. Accordingly, the Evaluation Committee determined that both firms are recommended for the award.

By: Michael Lee Date: 12/16/2025
Purchasing Agent



**REQUEST FOR LETTER OF INTEREST
RLI 25-072**

**WATER AND REUSE TREATMENT PLANT PROJECTS -
CONTINUING CONTRACTS (CCNA)**

**BID OPENING:
October 1st, 2025, 2:00 PM**

**VIRTUAL PRE-BIDDERS CONFERENCE:
September 10, 2025, 10:00 AM**

**For access, go to:
<https://pompanobeachfl.gov/pages/meetings>**

⋮

Issue Date: August 28, 2025

**CITY OF POMPANO BEACH, FLORIDA
REQUEST FOR LETTER OF INTEREST (RLI)**

RLI 25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Pursuant to Section 287.055, Florida Statutes Consultant's Competitive Negotiation Act (CCNA), the City of Pompano Beach (the "City") invites professional companies/firms to submit a Letter of Interest (RLI) to provide engineering services at the Pompano Beach Water Treatment Plant on a continuing as-needed basis.

The selected firm shall demonstrate specific experience and capabilities and must have qualified personnel and expertise in the specified disciplines.

This RLI is subject to the "Cone of Silence," which imposes certain restrictions on communications concerning the RLI process.

The Cone of Silence shall take effect once this solicitation is released to the General Public. Respondents to this solicitation or persons acting on their behalf may not contact, between the release of the solicitation and the end of the 72 hours following the agency posting the notice of intended award, excluding Saturdays, Sundays, and state holidays, any employee or officer of the executive or legislative branch concerning any aspect of this solicitation, except in writing to the procurement officer or as provided in the solicitation documents. Violation of this provision may be grounds for rejecting a response." (F.S. 287.057 (25)).

Any firm or lobbyist for a firm is prohibited from having any communications concerning any solicitation for a competitive procurement with any member of the City Commission, City Clerk, City Manager's Office, any Evaluation Committee Member, or any other City of Pompano Beach employee after Procurement and Contracts releases a solicitation to the General Public. All communications must go through the eBid System (IonWave) or the Purchasing Agent assigned to this solicitation. No other member of the City Commission, City Clerk, City Manager's Office, any Evaluation Committee Member, or any other City of Pompano Beach employee should be contacted concerning this RLI. Any information that amends any portion of this RLI received by any method other than an Addendum issued to the RLI is not binding on the City of Pompano Beach.

The City will receive proposals until **2:00:00 p.m. (EST), October 1, 2025**. Proposals must be submitted electronically through the eBid System (IonWave) on or before the due date and time as provided herein. Any proposal received after the due date and time specified will not be considered. Any uncertainty regarding the time a proposal is accepted will be resolved against the firm.

Firms 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://www.pompanobeachfl.ionwave.net>. The City is not responsible for the accuracy or completeness of any documentation the firm receives from any source other than the eBid System. The firm is solely responsible for downloading all required documents. To attend the virtual public meeting, go to <https://www.pompanobeachfl.gov/pages/meetings> to find the Zoom link.

Procurement and Contracts Department
City of Pompano Beach, Florida

SCHEDULE OF EVENTS

RLI NUMBER:	RLI25-072
RLI TITLE:	WATER AND REUSE TREATMENT PLANT PROJECTS – CONTINUING CONTRACTS (CCNA)
RELEASE DATE:	8/28/2025, at 12:00 P.M.
PREBIDDERS CONFERENCE VIRTUAL ZOOM MEETING	9/10/2025, at 10:00 A.M.
WRITTEN QUESTIONS AND INQUIRIES ARE DUE ON OR BEFORE:	9/22/2025, at 12:00 P.M.
RLI RESPONSES DUE DATE/TIME:	10/1/2025, at 02:00 P.M.
EVALUATION COMMITTEE MEETINGS	TBD
RECOMMENDATION FOR AWARD:	TBD
DIRECT ALL INQUIRIES TO:	https://pompanobeachfl.ionwave.net
E-PROPOSAL SUBMITTALS ONLY:	https://pompanobeachfl.ionwave.net
PROPOSAL VIRTUAL OPENING:	https://www.pompanobeachfl.gov/meetings

Non-Mandatory Pre-Proposal Meeting

The non-mandatory Pre-Proposal Meeting will be held via a Virtual Zoom Meeting on **9/10/2025, at 10:00 a.m.** (local). The Zoom link is available on the City's Meetings webpage: <https://www.pompanobeachfl.gov/meetings>

A. Introduction

The City is seeking professional companies/firms to work on various projects for the Water Treatment Plant. The projects range in magnitude from small-scale to extensive or specialized designs.

The types of projects to be undertaken may include, but are not limited to, the following:

- Reuse Water Treatment Plant Projects
- Water Treatment Plant Projects

B. Compliance with CCNA

As a result of this RLI, all services provided under the contract must adhere to the latest provisions of the Florida Consultants' Competitive Negotiation Act (CCNA), as outlined in Section 287.055, Florida Statutes, including any subsequent amendments. The maximum allowable costs for projects or studies conducted under this contract are subject to the limits set by the CCNA, which are periodically adjusted.

The Respondent acknowledges that all services under this contract shall comply with the latest provisions of the Florida Consultants' Competitive Negotiation Act (CCNA), pursuant to Section 287.055, Florida Statutes, and any amendments.

The maximum allowable costs for projects or studies conducted under this contract shall not exceed the limits

established by the CCNA as periodically adjusted. The limits are calculated annually based on the Consumer Price Index (CPI) or as determined by the Department of Financial Services.

Respondents are responsible for ensuring that their proposals align with the applicable statutory limits in effect at the time of submission and contract execution.

C. Scope of Services

The City intends to engage one or more qualified professional companies/firms to provide continuing consulting and specified works. The scope of services may include, but is not limited to, the following:

1. Prepare studies and recommend methods of operation and/or treatment.
2. Prepare preliminary design reports and/or design alternative recommendations. This may include various types of utility modeling, surveying, and field data analysis.
3. Prepare all required bidding/construction documents for projects. This will include survey, design plan, technical specification, and cost estimate preparations. Attend all required pre-design, design, bidding, and bid award meetings.
4. Attend the pre-bid conference, prepare possible bid addendums for plan revisions, and assist in making bid award recommendations for contracting/construction services.
5. Prepare all required permit applications and submittal packages as required for permit issuance of all agency permits (i.e., State, County, and City).
6. Provide construction engineering/management services for projects. Services during construction may include shop drawing/contractor submittal reviews and approvals, inspection and approval of project improvements, possible plan revisions, and review and approval of contractor pay applications.
7. Provide project close-out services. These may include preliminary and final project acceptance, preparation and approval of punch list items, and project certification as required by all permitting agencies.
8. Firms must have experience in municipal water and reuse treatment plant projects and be licensed to practice Professional Engineering in the State of Florida, Florida State Statute 471, by the Board of Professional Regulation.

D. Task/Deliverables

Tasks and deliverables will be determined per project. Each project shall require the City to receive a signed Work Authorization (WA) form from the awarded company/firm. The forms shall be completed and include the agreed-upon scope, tasks, schedule, cost, and deliverables for the project. The awarded company(s)/firm(s) must provide all applicable insurance requirements.

E. Term of Agreement/Contract

The contracts will be for five (5) years with no renewals, commencing upon award by the appropriate City officials.

F. Project Web Requirements:

1. This project will utilize the City-provided project management software, a web-based project management tool. This application is a collaboration tool that will allow all project team members continuous access through the Internet to essential project data and up-to-the-minute decision and approval status information. The City's project management software 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, contractors, and the City. City provided project management software 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 companies/firms selected to provide services for the City of Pompano Beach.

2. Lead and sub-consultants shall conduct project controls outlined by the City, project manager, and/or construction manager, utilizing City-provided project management software. The city shall provide the designated web-based application license(s) to the prime consultant and sub-consultants. No additional software will be required.

The lead consultant and sub-consultants shall log into the project website daily and, as necessary, 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, City 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 p.

G. Required Proposal Submittal

Sealed proposals shall be submitted electronically through the eBid System on or before the due date and time as provided herein. Firm shall upload the 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: To maintain comparability and expedite the review process, proposals must be organized as specified below, with the sections clearly labeled.

Title page:

Show the RLI number, the name of the Firm's company/firm, address, telephone number, name of the 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 Firm's understanding of the RLI solicitation and express a positive commitment to provide the services described herein. Please state the name(s) of the person(s) who will be authorized to make representations for the Firm, their title(s), office, and email addresses and telephone numbers. Please limit this section to two (2) pages.

Technical Approach:

Companies/Firms or teams shall submit their sample technical approach to the tasks described in the solicitation, including details of how each phase of the proposed project would be completed and how their company/firm proposes maintaining time schedules and cost controls.

References:

References for past projects aligning with the scope identified in this solicitation in the past seven years. Describe the scope of each project in physical terms and by cost, describe the Firm's responsibilities, and provide the contact information (name, email, telephone number) of an individual in a position of responsibility who can attest to the Firm's activities with the project.

Project Team Form:

Prepare and submit a completed "Project Team" form. This form aims to identify the proposed team's key members, including any specialty subconsultants. This information is intended for informational purposes only and does not constitute a contractual offer, obligation, or basis for procurement decisions.

Organizational Chart:

Specifically, identify the management plan (if needed) and provide an organizational chart for the project team. The Firm must describe, at a minimum, the basic approach to these projects, including the reporting hierarchy of staff and sub-consultants. Clarify the individual(s) responsible for coordinating 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 of Services section of this solicitation. Include the experience of the prime consultants as

well as other project team members, 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 (5) years] where the team members have performed similar projects previously.

Resumes of Key Personnel:

Include resumes for key personnel for prime and sub-consultants.

Office Locations:

Identify the office's location from which services will be rendered and the number of professional and administrative staff at the prime office. 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, as well as the number of professional and administrative staff at the prime office location.

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

Litigation:

Disclose any litigation within the past five (5) years arising out of your company/firm's performance,

including status/outcome.

City Forms:

The Firm 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 Firm is financially solvent. It has sufficient financial resources to perform the agreement/contract and shall provide proof of its financial solvency. At its sole discretion, the City may ask for additional proof of financial solvency, including additional documents post-proposal opening and prior to evaluation that demonstrate the Firm's ability to perform the resulting agreement/contract and provide the required materials and/or services.

Reviewed and Audited Financial Statements:

Firms shall be financially solvent and appropriately capitalized to be able to service the City for the duration of the agreement/contract. Firms shall provide a complete financial statement of the company's/firm's most recent audited financial statements, indicating the 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 before the date of filing this solicitation's response. The financial statements must be reviewed and submitted with any accompanying notes and supplemental information. The City of Pompano Beach reserves the right to reject financial statements in which the financial condition shown is twelve (12) months or more before the submittal date.

The City is a public agency subject to Chapter 119, Florida's Public Records Law, and must 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 Firm is financially solvent. It has sufficient financial resources to perform the agreement/contract and shall provide proof of its financial solvency. At its sole discretion, the City may ask for additional proof of financial solvency, including additional documents post-proposal opening and prior to evaluation that demonstrate the Firm's ability to perform the resulting agreement/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 three (3) months
- 2) Balance sheet, profit and loss statement, cash flow report
- 3) IRS returns for the last two (2) years
- 4) Letter from CPA showing profits and loss statements (certified)

H. Insurance

The contractor/consultant shall not commence services under the terms of this agreement/contract 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 solicitation and have questions regarding the insurance requirements, don't hesitate to get in touch with the City's Procurement and Contracts Department at (954) 786-4098. If the agreement/contract has already been awarded, please direct any inquiries and proof of the requisite

insurance coverage to City staff responsible for oversight of the subject project/contract.

The contractor/Consultant is responsible for delivering 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 the city as an additional insured on a primary basis on all such coverage.

Throughout the term of this agreement/contract, the City, by and through its Risk Manager, reserves the right to review, modify, reject, or accept any insurance policies required by this agreement/contract, including limits, coverages, or endorsements. The 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 the City review or acceptance of insurance maintained by the contractor/consultant, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by the contractor/consultant under this agreement/contract.

Throughout the term of this agreement/contract, the contractor/consultant and all sub-contractors/sub-consultants 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. The contractor/consultant further agrees to be responsible for the employment, control, and conduct of its employees and any injury sustained by such employees during their employment.
2. Liability Insurance.
 - (a) Naming the City of Pompano Beach as an additional insured as the City’s interests may appear, on General Liability Insurance only, relative to claims which arise from the firm’s negligent acts or omissions in connection with contractor/consultant’s performance under this agreement/contract.
 - (b) 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 \$2,000,000 Per Aggregate

* Policy to be written on a claim incurred basis

X comprehensive form X X premises - operations X explosion & collapse hazard	bodily injury and property damage bodily injury and property damage
---	--

	underground hazard	
X	products/completed	bodily injury and property damage combined
X	operations hazard	
X	contractual insurance	bodily injury and property damage combined
X	broad form property damage	bodily injury and property damage combined
X	independent contractors'	personal injury
X	personal injury	
X	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.

EXCESS LIABILITY

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, the Consultant agrees the indemnification and hold harmless provisions set forth in the agreement/contract shall survive the termination or expiration of the agreement/contract 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
<u>XX</u> 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/contract and for not less than four (4) years after termination/ completion of the agreement/contract.		

3. Employer’s Liability. If required by law, the Consultant and all sub-subcontractors/sub-consultants 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/contract, insurance is required of the Awarded Firm, the Awarded Firm 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 thirty (30) days' written notice by a carrier of any cancellation or material change in any policy.

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

6. Waiver of Subrogation. The awarded company/firm waives any and all rights 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/contract to waive subrogation without an endorsement, then the awarded company/firm 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 that includes a condition to the policy not specifically prohibiting such an endorsement or voids coverage should the Awarded Firm enter into such an agreement/contract on a pre-loss basis.

I. Selection/Evaluation Process

A Selection/Evaluation Committee (Committee) will be appointed to select the most qualified company(ies)/ firm(s). The Committee will present its findings to the City Commission. The City Manager will approve a selection evaluation committee to assist in evaluating the Letter of Interest(s) received and to select the most qualified firm(s). All Letters of Interest will be evaluated by the Evaluation Committee and Procurement and Contracts staff based on the information submitted by the Submitting Firm(s) in response to this RLI. The Committee’s findings will be presented to the City Commission.

Based upon the evaluation, the Evaluation Committee will recommend one Submitting Firm to the City Commissioners for the award and execution of an Agreement.

Proposals will be evaluated using the following criteria:

Line	Criteria	Points Range
1	Prior experience of the company/firm with projects of a similar size and Complexity within past seven years.:	0-40
	a) Number of similar projects	
	b) Complexity of similar projects	
	c) References from past projects performed by the company/firm per HB-683	
	d) Litigation within the past five (5) years arising out of the company's/firm's performance (list, describe outcome)	
2	Qualifications of personnel including sub-contractor/sub-consultants:	0-35
	a) Organizational chart for project	
	b) Number of technical staff	
	c) Qualifications of technical staff:	
	d) Number of licensed staff	
	e) Education of staff	
	f) Experience of staff on similar projects	
3	Proximity of the nearest office to the project location:	0-15
	a) Location	
	b) Number of staff at the nearest office	
4	Local Vendors Program Participation	0-10
	TOTAL	100

NOTE:

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

The City Commission has the authority to (including, but not limited to) approve the recommendation, reject the recommendation, and direct staff to re-advertise this 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.

Tie Breaker:

In case there is a tie for the highest-ranked firms, the recommendations shall be made by giving preference to the following items in this order:

- 1) Maintenance of a Drug-Free Workplace in accordance with the requirements of 287.087, F.S.
- 2) Local Vendor Program Participation
- 3) Coin Toss

Technicalities:

Failure to respond, provide detailed information, or provide requested proposal elements may reduce points in the evaluation process. The Committee may recommend rejecting any Letter of Interest containing material deviations from the RLI. The Committee may recommend waiving any irregularities and technicalities. If only one (1) responsive proposal is received, the Committee will proceed without scoring the one (1) responsive statement received and may recommend that Procurement and Contracts Department staff negotiate the best terms and conditions with that sole firm, or may recommend rejecting the proposal.

Committee's Recommendations:

The Evaluation Committee may recommend rejecting the Letter of Interest received or awarding the contract. A complete recording shall be made of each meeting (evaluation and negotiation session) conducted by the Committee by the Purchasing Agent. The Committee may choose to conduct one (1) or more exempt negotiation sessions with as many ranked responsive firms, in its sole judgment, as it deems appropriate before making its recommendation for award, starting with the highest-ranked firm first, then the second highest-ranked firm, and so on. The Committee also has the discretion to recommend negotiations with only a single responsive firm if the Committee chooses to do so. During any such negotiations, the City staff assigned to negotiate reserves the right to negotiate any term, condition, or specification during an exempt negotiation session with the highest-ranked responsive firm.

Determination of Award:

The City Commission shall consider the Committee's award recommendation for this RLI and may approve such a recommendation. The City Commission may also, at its option, reject the Evaluation Committee's recommendation, or it may also reject all statements received, in which case the City may choose to re-advertise this solicitation "as is" or by adopting a modified version.

J. Hold Harmless and Indemnification

Firm covenants and agrees that it will indemnify hold harmless the City, its officials, employees, volunteers and other authorized agents from and against any and all claims, demands, suits, 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 agreement/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.

K. Right to Audit

Awarded company's/firm's records which shall include but not be limited to accounting records, written policies and procedures, computer records, disks and software, videos, photographs, sub-contract/sub-consultants files (including proposals of successful and unsuccessful firms), originals estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to the agreement/contract (all the foregoing hereinafter referred to as "records") shall be open to inspection and subject to audit and/or reproduction, during regular working hours, by City'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 Awarded Firm or any of its payees pursuant to the execution of the agreement/contract. Such records subject to the examination shall also include but are not limited to, those necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with the agreement/contract.

For the purpose of such audits, inspections, examinations, and evaluations, the City's agent or authorized representative shall have access to said records from the effective date of the agreement/contract, for the duration of the service, and until five (5) years after the date of final payment by the City to awarded company/firm pursuant to the agreement/contract.

The City agent or its authorized representative shall have access to the awarded company's/firm's facilities, all necessary records, and adequate and appropriate workspace to conduct audits in compliance with this article. The City agent or authorized representative shall give auditees reasonable advance notice of intended audits.

The awarded company/firm shall require all sub-contractors/sub-consultants, insurance agents, and material suppliers (payees) to comply with this article's provisions by inserting the requirements in any written agreement/contract. Failure to obtain such written agreements/contracts that include such provisions shall be reason to exclude some or all of the related payees' costs from amounts payable to the contractor/consultant pursuant to the agreement/contract.

L. Retention of Records and Right to Access

The City is a public agency subject to Florida Statutes Chapter 119. The awarded company/firm shall comply with Florida's Public Records Law, as amended. Specifically, the awarded company/firm 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 the 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 Florida Statutes Chapter 119, or as otherwise provided by law;
3. Ensure that public records that are exempt or confidential and exempt from public record are maintained.
4. Requirements are not disclosed except as authorized by law;
5. 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 agreement/contract term and following completion of the agreement/contract if the awarded company/firm does not transfer the records to the City; and

6. Upon completion of the agreement/contract, transfer all public records in possession of the awarded company/firm at no cost to the City, or keep and maintain public records required by the City to perform the service. If the awarded company/firm transfers all public records to the City upon completion of the agreement/contract, the awarded company/firm shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the awarded company/firm keeps and maintains public records upon completion of the agreement/contract, the awarded company/firm 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 compatible with the City's information technology systems.

M. Communications

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

N. No Discrimination

No discrimination shall be made on the basis of race, sex, color, age, religion, or national origin in the operations conducted under any agreement/contract with the City.

O. Independent Contractor

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

P. Staff Assignment

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

Q. Agreement/Contract Terms

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

- The agreement/contract shall include, at a minimum, the entirety of this solicitation and the awarded proposal. The City of Pompano Beach City Attorney shall prepare it.
- If the City 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/consultant, its employees, agents, or servants during the performance of the agreement/contract, whether directly or indirectly, awarded The company/firm agrees to reimburse the City for all expenses, attorney's fees, and court costs incurred in defending such claim, cause of action, or lawsuit.

R. Waiver

It is agreed that no waiver or modification of the agreement/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. 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 the agreement/contract or the right or obligations of any party under it unless such waiver or modification is in writing, duly executed as previously provided. The parties agree that the provisions of this paragraph may not be waived except by a duly executed writing.

S. Survivorship Rights

The agreement/contract resulting from this solicitation shall be binding on and inure to the benefit of the respective parties and their executors, administrators, heirs, personal representatives, successors, and assigns.

T. Manner of Performance

Firm agrees to perform its duties and obligations under the agreement/contract resulting from this solicitation professionally and in accordance with all applicable local, federal, and state laws, rules, and regulations.

Firm agrees that the services provided under the agreement/contract resulting from this solicitation shall be provided by educated, trained, experienced, certified, and licensed employees in all areas encompassed within its designated duties. Firm agrees to furnish the City of Pompano Beach with all documentation, certification, authorization, license, permit, or registration currently required by applicable laws, rules, and regulations. Firm 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 licenses, permits, registration, authorization, or certification required by applicable laws or regulations in full force and effect during the term of the agreement/contract. Failure of the Firm to comply with this paragraph shall constitute a material breach of the agreement/contract.

U. Acceptance Period

Proposals submitted in response to this solicitation must be valid for no less than one hundred and twenty (120) days from the closing date.

V. Conditions and Provisions

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

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

All firms are required to provide all information requested in this solicitation. Failure to do so may result in the proposal being disqualified.

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 City's best interest 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 an agreement/contract for the items herein, in part or whole, if it is determined to be in the City's best interests to do so.

The City shall not be liable for any costs incurred by the Firm in preparing proposals or for any work performed therein.

W. Standard Provisions

1. Governing Law

Any agreement/contract 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/contract will be in Broward County, Florida.

2. Licenses

In order to perform public work, the awarded company/firm 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

To determine any possible conflict of interest, each Firm must disclose if any Elected Official, Appointed Official, or City Employee is also an owner, corporate officer, or an employee of the company/firm. Suppose any Elected Official, Appointed Official, or City Employee is an owner, corporate officer, or employee. In that case, the Firm must file a statement with the Broward County Supervisor of Elections pursuant to Florida Statute, Section 112.313.

4. Drug-Free Workplace

The awarded company(s)/firm(s) will be required to verify that they will operate a "Drug-Free Workplace" as outlined in Florida Statute, Section 287.087.

5. Public Entity Crimes

A person or affiliate who has been placed on the convicted vendor list following a conviction by a public entity crime may not submit a proposal on an agreement/contract to provide any goods or services to a public entity, may not submit a proposal on an agreement/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, sub-contractor, consultant or sub-consultant under agreement/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 thirty-six (36) months from the date of being placed on the convicted vendor list.

6. Patent Fees, Royalties, And Licenses

Suppose the awarded company/firm requires or desires to use any design, trademark, device, material, or process covered by letters patent or copyright. In that case, the awarded company/firm and his surety shall indemnify and hold harmless the City from any and all claims for infringement because 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 because of any infringement at any time during or after completion of the work.

7. Permits

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

8. Familiarity with Laws

It is assumed the selected company(ies)/firm(s) will be familiar with all federal, state, and local laws, ordinances, rules, and regulations that may affect/their services pursuant to this solicitation. Ignorance on the part of the company/firm will not relieve the company/firm from responsibility.

9. Withdrawal of Proposals

A company/firm may withdraw its proposal without prejudice, no later than the advertised deadline for submission of proposals by written communication to the Procurement and Contracts, 1190 N.E. 3rd Avenue, Building C, Pompano Beach, Florida 33060.

10. Composition of Project Team

Company(ies)/Firm(s) 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 agreement/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 the contract's user department. Per Florida Statutes, Chapter 218, payment will be made within forty-five (45) days after receipt of a proper invoice.

12. Public Records

- a. The City of Pompano Beach is a public agency subject to Florida Statutes, Section 119. The awarded company/firm shall comply with Florida's Public Records Law, as amended. Specifically, the Awarded Firm 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 the 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 Florida Statutes, Section 119, 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 agreement/contract term and following completion of the agreement/contract if the awarded company/firm does not transfer the records to the City; and
 - iv. Upon completion of the agreement/contract, transfer all public records in possession of the awarded company/firm at no cost to the City, or keep and maintain public records required by the City to perform the service. If the awarded company/firm transfers all public records to the City upon completion of the agreement/contract, the awarded company/firm shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the awarded company/firm keeps and maintains public records upon completion of the agreement/contract, the contractor/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 compatible

- with the City's information technology systems.
- b. Failure of the contractor/consultant to provide the above-described public records to the City within a reasonable time may subject the contractor/consultant to penalties under Florida Statute Section 119.10, as amended.

PUBLIC RECORDS CUSTODIAN

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

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

X. Questions, Communication, and Addendums

All questions regarding this solicitation will be submitted using the Questions feature in the eBid System. Oral and other interpretations or clarifications will be without legal effect. Addendum/Addenda will be posted to this solicitation in the eBid System, and it is the firm's responsibility to obtain all addenda before submitting a response to this solicitation.

Issuing a written addendum or posting an answer in response to a question submitted using the Questions feature in the eBid System are the only official methods for interpretation, clarification, or additional information. If any addendum is issued to this solicitation, the addendum will be issued via the eBid System. Before submitting its response, each firm shall be responsible for contacting the City's Procurement and Contracts Department at (954) 786-4098 to determine if an addendum was issued and to make such an addendum a part of its proposal. Each addendum will be posted to the solicitation in the eBid System.

Y. Protest Procedures

The Protest Procedures established within the Procurement and Contracts Procedures Manual and Section 120.57, Florida Statutes, must be followed to file a valid Protest to this solicitation. Protests concerning the proposed solicitation award must be filed in writing with the Procurement and Contracts Director to be considered. They may only be filed by bidders or firms whose solicitation or award may aggrieve. The initial protest must be addressed to the following:

Director of Procurement and Contracts, City of Pompano Beach
1010 N.E. 3rd Avenue, Pompano Beach, Florida 33060

END OF THE RLI



**City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060**

September 4, 2025

ADDENDUM #1

RLI25-072 Water and Reuse Treatment Plant Projects - CCNA

To Whom It May Concern,

Addendum #1 is posted on the City's eBid website: <http://pompanobeachfl.ionwave.net>. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

Internal software settings have been adjusted to solve a technical issue.

The deadline for receiving written questions in the eBid System is **September 22, 2025, at 12:00:00 p.m. (local).**

The deadline for accepting proposals in the eBid system is **October 1, 2025, at 2:00:00 p.m. (local).**

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English,
Purchasing Agent.

cc: website



**City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060**

September 8, 2025

ADDENDUM #2

RLI25-072 Water and Reuse Treatment Plant Projects - CCNA

To Whom It May Concern,

Addendum #2 is posted on the City's eBid website: <http://pompanobeachfl.ionwave.net>. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

All documents for this solicitation have been updated to allow access to the public.

The deadline for receiving written questions in the eBid System is **September 22, 2025, at 12:00:00 p.m. (local).**

The deadline for accepting proposals in the eBid system is **October 1, 2025, at 2:00:00 p.m. (local).**

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English,
Purchasing Agent.

cc: website



**City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060**

October 1, 2025

ADDENDUM #3

RLI25-072 Water and Reuse Treatment Plant Projects - CCNA

To Whom It May Concern,

Addendum #3 is posted on the City's eBid website: <http://pompanobeachfl.ionwave.net>. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

The link to a recording of the pre-proposal meeting is as follows:

[https://copb-purchasing.s3.us-east-1.amazonaws.com/RLI25-072_Water+and+Reuse+Treatment+Plant+Projects++CCNA/Pre-Proposal+Meeting+for+RLI25-072+Water+and+Reuse+Treatment+Plant+Projects+\(CCNA\).mp4](https://copb-purchasing.s3.us-east-1.amazonaws.com/RLI25-072_Water+and+Reuse+Treatment+Plant+Projects++CCNA/Pre-Proposal+Meeting+for+RLI25-072+Water+and+Reuse+Treatment+Plant+Projects+(CCNA).mp4)

RLI25-072_meeting_saved_chat.txt, which contains the meeting's participants, has been uploaded to the Attachments tab of the City's eBid System.

The Addendum-2 notice has been uploaded to the Attachments tab of the City's eBid System.

The deadline for receiving written questions in the eBid System has passed.

The deadline for accepting proposals in the eBid system is **October 1, 2025, at 2:00:00 p.m. (local)**.

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English,
Purchasing Agent.

cc: website



**City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060**

October 1, 2025

ADDENDUM #4

RLI25-072 Water and Reuse Treatment Plant Projects - CCNA

To Whom It May Concern,

Addendum #4 is posted on the City's eBid website: <http://pompanobeachfl.ionwave.net>. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

The deadline for receiving written questions in the eBid System has passed.

The deadline for accepting proposals in the eBid system has been extended to **October 8, 2025, at 2:00:00 p.m. (local)**.

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English,
Purchasing Agent.

cc: website



**City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060**

October 2, 2025

ADDENDUM #5

RLI25-072 Water and Reuse Treatment Plant Projects - CCNA

To Whom It May Concern,

Addendum #5 is posted on the City's eBid website: <http://pompanobeachfl.ionwave.net>. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

The deadline for accepting questions has been extended to **October 7, 2025, at 12:00 p.m. (local)**

The deadline for accepting proposals in the eBid system is **October 15, 2025, at 2:00:00 p.m. (local)**.

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English,
Purchasing Agent.

cc: website



RLI25-072 Addendum 5

Arcadis US, Inc.

Supplier Response

Event Information

Number: RLI25-072 Addendum 5
 Title: Water and Reuse Treatment Plant Projects - CCNA
 Type: Request for Letters of Interest
 Issue Date: 8/28/2025
 Deadline: 10/15/2025 02:00 PM (ET)
 Notes: Pursuant to Section 287.055, Florida Statutes Consultant's Competitive Negotiation Act (CCNA), the City of Pompano Beach (the "City") invites professional companies/firms to submit a Letter of Interest (RLI) to provide engineering services at the Pompano Beach Water Treatment Plant on a continuing as-needed basis.

The selected firm shall demonstrate specific experience and capabilities and must have qualified personnel and expertise in the specified disciplines.

This RLI is subject to the "Cone of Silence," which imposes certain restrictions on communications concerning the RLI process.

The Cone of Silence shall take effect once this solicitation is released to the General Public. Respondents to this solicitation or persons acting on their behalf may not contact, between the release of the solicitation and the end of the 72 hours following the agency posting the notice of intended award, excluding Saturdays, Sundays, and state holidays, any employee or officer of the executive or legislative branch concerning any aspect of this solicitation, except in writing to the

Arcadis US, Inc. Information

Contact: Leah Richter
 Address: 150 South Pine Island Road
 Suite 317
 Plantation, FL 33324
 Phone: (954) 761-3460
 Email: Leah.richter@arcadis.com
 Web Address: www.arcadis.com

By submitting this Response I affirm I have received, read and agree to the all terms and conditions as set forth herein. I hereby recognize and agree that upon execution by an authorized officer of the City of Pompano Beach, this Response, together with all documents prepared by or on behalf of the City of Pompano Beach for this solicitation, and the resulting Contract shall become a binding agreement between the parties for the products and services to be provided in accordance with the terms and conditions set forth herein. I further affirm that all information and documentation contained within this response to be true and correct, and that I have the legal authority to submit this response on behalf of the named Supplier (Offeror).

Leah Richter

Signature

Submitted at 10/15/2025 09:12:44 AM (ET)

leah.richter@arcadis.com

Email

Supplier Note

Please refer to LOI for local business participation plan. Attributes tab did not allow us to enter "TBD."

Requested Attachments

Letter of Interest

Arcadis_PompanoBeach Water-Reuse CCNA RLI 25-072.pdf

The electronic version of the Letter of Interest must be uploaded to the Response Attachments tab. Section G of the RLI includes the submittal requirements. Firm shall upload the 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.

Tier 1/ Tier 2 Local Business Form

06 T1_T2_Arcadis.pdf

To comply with the City's Local Business Program as a Tier-1 or Tier-2 vendor, you must complete the Tier 1/ Tier 2 Local Business form from the attachments tab and upload it here.

Proposer Information Page Form

03 Proposer Information Page Form_Arcadis.pdf

Proposer Information Page

Qualification of Bidders Form

01 Qualifications Of Bidders Form_Arcadis.pdf

Qualification of Bidders Form from the attachments tab must be completed and uploaded to this tab.

Local Business Program Forms

07 Local Business Program Arcadis.pdf

Local Business Program Forms (A, B, C, and D) from the attachments tab must be completed and uploaded to this tab.

Project Team Form

04_Project Team Form_Arcadis.pdf

Submit a completed "Project Team" form. This form aims to identify the proposed team's key members, including any specialty subconsultants.

Bid Attributes

1 Local Business
 Is your company a Local Business located within the City of Pompano Beach City Limits as required by the Local Business Program? (A copy of your current City of Pompano Beach Business Tax Receipt may be requested.)

2 Local Business Participation Percentage
 If you have indicated local business participation on the Local Business Participation Form Exhibit A enter the percentage of the contract that will be performed by local Pompano Beach businesses.

3 Drug-Free Workplace
 STATEMENT UNDER SECTION 287.087, FLORIDA STATUTES ON DRUG-FREE WORKPLACE
REQUESTED INFORMATION BELOW IS ON THE ATTRIBUTES TAB FOR THE RFP IN THE EBID SYSTEM. PROVIDE THIS INFORMATION ELECTRONICALLY.
 Preference must be given to Contractors submitting certification with their bid or proposal, certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991.
 Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:
 (1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
 (2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
 (3) Give each employee engaged in providing the commodities or contractual services that are under bid, a copy of the statement specified in subsection (1).
 (4) In the statement specified in subsection (1) notify the employees that as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace, no later than five (5) days after such conviction.
 (5) Impose a sanction on, or require the satisfactory participation in, a drug abuse assistance or rehabilitation program if such is available in the employee's community, by an employee who is so convicted.
 (6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.
 As the person authorized to sign this statement, I certify that his company/firm complies with the above requirements.
 By choosing YES, I hereby certify that the company/firm complies with all the above requirements

4 Conflict of Interest
 For purposes of determining any possible conflict of interest, all bidders must disclose if any City of Pompano Beach employee is also an owner, corporate officer, or employee of their business. Indicate either "Yes" (a City employee is also associated with your business), or "No". (Note: If answer is "Yes", you must file a statement with the Supervisor of Elections, pursuant to Florida Statutes 112.313.) Indicate Yes or No below with the drop down menu.

5	Vendor Certification Regarding Scrutinized Companies Lists (Any Dollar Amount) Exhibit "A"
<p>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 electronically sign 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 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.</p>	
<input checked="" type="checkbox"/> Certified	

6	Terms & Conditions
<p>Check the box indicating you agree to the terms and conditions of this solicitation.</p>	
<input checked="" type="checkbox"/> Agree	

7	Acknowledgement of Addenda
<p>Check this box to acknowledge that you have reviewed all addenda issued for this solicitation.</p>	
<input checked="" type="checkbox"/> Yes	



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Foreign Profit Corporation

ARCADIS U.S., INC.

Filing Information

Document Number	F98000001104
FEI/EIN Number	57-0373224
Date Filed	02/26/1998
State	DE
Status	ACTIVE
Last Event	NAME CHANGE AMENDMENT
Event Date Filed	01/04/2007
Event Effective Date	NONE

Principal Address

630 PLAZA DRIVE, SUITE 200
HIGHLANDS RANCH, CO 80129

Changed: 04/30/2019

Mailing Address

ATTN: Kayte McIntosh (Legal)
110 West Fayette St.
Suite 300
SYRACUSE, NY 13202

Changed: 03/10/2025

Registered Agent Name & Address

C T CORPORATION SYSTEM
1200 SOUTH PINE ISLAND ROAD
PLANTATION, FL 33324

Officer/Director Detail

Name & Address

Title VP

SUAREZ, GUS
4300 W Cypress St.
Suite 450
TAMPA, FL 33607

Title Asst. Secretary

Callahan, James
44 South Broadway
Suite 1200
White Plains, NY 10601

Title Secretary

Miller, Robyn L
333 South Hope Street, Suite C-200
Los Angeles, CA 90071

Title Asst. Secretary, SR VP

SERRETTE, CARLTON
4300 W Cypress St.
Suite 450
TAMPA, FL 33607

Title VP, Assistant Secretary

Richter, Leah
150 S Pine Island Road
Suite 300
PLANTATION, FL 33324

Title Assoc VP

Kappes, Rich
7000 North Federal Hwy.
Boca Raton, FL 33487

Title Assistant Secretary

Dawkins, Errol
44 South Broadway
Suite 1200
White Plains, NY 10601

Title Director, President

McCarthy, John M
44 South Broadway
Suite 1200
White Plains, NY 10601

Title Director

Selman, Wassim
2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339

Title Senior Vice President, Assistant Secretary

Pomales, Melissa
2811 Ponce de Leon Blvd.
Suite 200
Coral Gables, FL 33134

Title Director

Parmar, Nilesh
4301 North Fairfax Drive, Suite 530
Arlington, VA 22203

Title Treasurer

Newton, Jessica
630 Plaza Drive, Suite 200
Highlands Ranch, CO 80129

Title Director

Rothchild, Alexander
213 Court Street, Suite 700
Middletown, CT 06457

Annual Reports

Report Year	Filed Date
2023	04/04/2023
2024	04/19/2024
2025	03/10/2025

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02/26/1998 -- Foreign Profit	View image in PDF format

Florida Department of State, Division of Corporations

Exhibit B – Cover Page

- 1. Consultant's Response**
- 2. Local Business Forms**
- 3. Consultant's Proposal**
- 4. Consultant's Rate Sheet**



RLI25-072 Addendum 5

Arcadis US, Inc.

Supplier Response

Event Information

Number: RLI25-072 Addendum 5
Title: Water and Reuse Treatment Plant Projects - CCNA
Type: Request for Letters of Interest
Issue Date: 8/28/2025
Deadline: 10/15/2025 02:00 PM (ET)
Notes: Pursuant to Section 287.055, Florida Statutes Consultant's Competitive Negotiation Act (CCNA), the City of Pompano Beach (the "City") invites professional companies/firms to submit a Letter of Interest (RLI) to provide engineering services at the Pompano Beach Water Treatment Plant on a continuing as-needed basis.

The selected firm shall demonstrate specific experience and capabilities and must have qualified personnel and expertise in the specified disciplines.

This RLI is subject to the "Cone of Silence," which imposes certain restrictions on communications concerning the RLI process.

The Cone of Silence shall take effect once this solicitation is released to the General Public. Respondents to this solicitation or persons acting on their behalf may not contact, between the release of the solicitation and the end of the 72 hours following the agency posting the notice of intended award, excluding Saturdays, Sundays, and state holidays, any employee or officer of the executive or legislative branch concerning any aspect of this solicitation, except in writing to the

Arcadis US, Inc. Information

Contact: Leah Richter
 Address: 150 South Pine Island Road
 Suite 317
 Plantation, FL 33324
 Phone: (954) 761-3460
 Email: Leah.richter@arcadis.com
 Web Address: www.arcadis.com

By submitting this Response I affirm I have received, read and agree to the all terms and conditions as set forth herein. I hereby recognize and agree that upon execution by an authorized officer of the City of Pompano Beach, this Response, together with all documents prepared by or on behalf of the City of Pompano Beach for this solicitation, and the resulting Contract shall become a binding agreement between the parties for the products and services to be provided in accordance with the terms and conditions set forth herein. I further affirm that all information and documentation contained within this response to be true and correct, and that I have the legal authority to submit this response on behalf of the named Supplier (Offeror).

Leah Richter

Signature

Submitted at 10/15/2025 09:12:44 AM (ET)

leah.richter@arcadis.com

Email

Supplier Note

Please refer to LOI for local business participation plan. Attributes tab did not allow us to enter "TBD."

Requested Attachments

Letter of Interest

Arcadis_PompanoBeach Water-Reuse CCNA RLI 25-072.pdf

The electronic version of the Letter of Interest must be uploaded to the Response Attachments tab. Section G of the RLI includes the submittal requirements. Firm shall upload the 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.

Tier 1/ Tier 2 Local Business Form

06 T1_T2_Arcadis.pdf

To comply with the City's Local Business Program as a Tier-1 or Tier-2 vendor, you must complete the Tier 1/ Tier 2 Local Business form from the attachments tab and upload it here.

Proposer Information Page Form

03 Proposer Information Page Form_Arcadis.pdf

Proposer Information Page

Qualification of Bidders Form

01 Qualifications Of Bidders Form_Arcadis.pdf

Qualification of Bidders Form from the attachments tab must be completed and uploaded to this tab.

Local Business Program Forms

07 Local Business Program Arcadis.pdf

Local Business Program Forms (A, B, C, and D) from the attachments tab must be completed and uploaded to this tab.

Project Team Form

04_Project Team Form_Arcadis.pdf

Submit a completed "Project Team" form. This form aims to identify the proposed team's key members, including any specialty subconsultants.

Bid Attributes

1 Local Business

Is your company a Local Business located within the City of Pompano Beach City Limits as required by the Local Business Program? (A copy of your current City of Pompano Beach Business Tax Receipt may be requested.)

2 Local Business Participation Percentage

If you have indicated local business participation on the Local Business Participation Form Exhibit A enter the percentage of the contract that will be performed by local Pompano Beach businesses.

3 Drug-Free Workplace

STATEMENT UNDER SECTION 287.087, FLORIDA STATUTES ON DRUG-FREE WORKPLACE
**REQUESTED INFORMATION BELOW IS ON THE ATTRIBUTES TAB FOR THE RFP IN THE EBID SYSTEM.
 PROVIDE THIS INFORMATION ELECTRONICALLY.**

Preference must be given to Contractors submitting certification with their bid or proposal, certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991.

Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

- (1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
 - (2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
 - (3) Give each employee engaged in providing the commodities or contractual services that are under bid, a copy of the statement specified in subsection (1).
 - (4) In the statement specified in subsection (1) notify the employees that as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace, no later than five (5) days after such conviction.
 - (5) Impose a sanction on, or require the satisfactory participation in, a drug abuse assistance or rehabilitation program if such is available in the employee's community, by an employee who is so convicted.
 - (6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.
- As the person authorized to sign this statement, I certify that his company/firm complies with the above requirements.

By choosing YES, I hereby certify that the company/firm complies with all the above requirements

4 Conflict of Interest

For purposes of determining any possible conflict of interest, all bidders must disclose if any City of Pompano Beach employee is also an owner, corporate officer, or employee of their business. Indicate either "Yes" (a City employee is also associated with your business), or "No". (Note: If answer is "Yes", you must file a statement with the Supervisor of Elections, pursuant to Florida Statutes 112.313.) Indicate Yes or No below with the drop down menu.

5 Vendor Certification Regarding Scrutinized Companies Lists (Any Dollar Amount)

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 electronically sign 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 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.

Certified

6 Terms & Conditions

Check the box indicating you agree to the terms and conditions of this solicitation.

Agree

7 Acknowledgement of Addenda

Check this box to acknowledge that you have reviewed all addenda issued for this solicitation.

Yes

LOCAL BUSINESS EXHIBIT "A"
 CITY OF POMPANO BEACH, FLORIDA
 LOCAL BUSINESS PARTICIPATION FORM

Solicitation Number & Title: Water and Reuse Treatment Plant Projects - Continuing Contracts (CCNA) RLI 25-072 Prime Contractor's Name: Arcadis, U.S., Inc.

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed/Material to be Purchased	Contract Amount or %
KEITH, 301 E Atlantic Blvd. Pompano Beach, FL 33060	Alex Lazowick, PE 954.788.3400	Surveying/SUE	TBD*
Javier Bidot & Assoc, 2385 NW Executive Center Dr.#100 Boca Raton, FL 33431	Carlos Lebron, PLS 561.962.2851	Surveying	TBD*
Dickey Consulting, 1033 Sistrunk Blvd, Ste. 206 Fort Lauderdale, FL 33311	Sheryl Dickey 954.467.6822	Public Outreach	TBD*
Federal Engineering & Testing, 3370 NE 5th Ave. Oakland Park, FL 33334	Keith LeBlanc, PE 954.784.2941	Geotechnical Engineering	TBD*

LOCAL BUSINESS EXHIBIT "A"

*Arcadis U.S., Inc. is committed to meeting the applicable Local Business Participation goals of the City. Actual participation percentages will be dependent upon ultimate work assigned.

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

Solicitation Number RLI25-072

TO: Arcadis, U.S., Inc.
(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 Engineering and Testing Services

at the following price: TBD based on specific Task Orders

09/29/2025
(Date)

Federal Engineering and Testing, Inc.
(Print Name of Local Business Contractor)

3370 NE 5th Avenue
(Street Address)

Oakland Park, FL 33334
(City, State Zip Code)

BY: *Brian Burton*
(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 RLI25-072

TO: Arcadis, U.S., Inc.
(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:

Boundary, Topographic and Utility Survey Services


at the following price: TBD based on specific Task Orders

09/30/2025
(Date)

Javier E. Bidot Associates, Corp.
(Print Name of Local Business Contractor)

2385 NW Executive Center Dr., Suite 100
(Street Address)

Boca Raton, FL 33431
(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"

COMPLETE THE PROPOSER INFORMATION 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 FOR THE RFQ IN THE EBID SYSTEM.

PROPOSER INFORMATION PAGE

RFQ 25-072, Water and Reuse Treatment Plant Projects - Continuing Contracts (CCNA)
 (number) (RFQ name)

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 RFQ. I have read the RFQ 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) Melissa Pomales, PE, ENV SP, PMP, IAM Title Senior Vice President

Company (Legal Registered) Arcadis U.S., Inc.

Federal Tax Identification Number 57-0373224

Address 150 S. Pine Island Road, Suite 315

City/State/Zip Plantation, FL 33324

Telephone No. (954) 761-3460 Fax No. N/A

Email Address melissa.pomales@arcadis.com

Bidder Company Name _____

Qualifications Of Bidders

To demonstrate qualifications to perform the work, and to be considered for award, each bidder shall submit at least three (3) business customer references. Provide information for business customers for whom you have performed work of this nature which you list as references, excluding the City of Pompano Beach. (Use an attachment if necessary.)

1. Name and address of customer: _____

Contact person name, telephone number and email address: _____

Description of services provided and date(s) of service: _____

2. Name and address of customer: _____

Contact person name, telephone number and email address: _____

Description of services provided and date(s) of service: _____

3. Name and address of customer: _____

Contact person name, telephone number and email address: _____

Description of services provided and date(s) of service: _____

TIER 1/TIER 2 COMPLIANCE FORM

IN ORDER FOR YOUR FIRM TO COMPLY WITH THE CITY'S LOCAL BUSINESS PROGRAM AS A TIER 1 OR TIER 2 VENDOR, BIDDERS MUST COMPLETE THE INFORMATION BELOW AND UPLOAD THE FORM TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

TIER 1 LOCAL VENDOR

_____ My firm has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least 10 % who are residents of the City of Pompano Beach.

And/Or

_____ My firm has maintained a permanent place of business within the city limits and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 10 % of the contract value.

Or

_____ My firm does not qualify as a Tier 1 Vendor.

TIER 2 LOCAL VENDOR

_____ My firm 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

And/Or

_____ My firm has maintained a permanent place of business within Broward County and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value.

Or

_____ My firm does not qualify as a Tier 2 Vendor.

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

9/30/25

(Date)

Arcadis, U.S., Inc.

(Name of Firm)

BY: Melissa Pomales, PE, ENV SP, PMP

(Name)



Proposal



City of Pompano Beach

Contact:

Leah Richter, PE

150 S. Pine Island Rd., Suite 315

Plantation, FL 33324

Tel: 954.525.2499

Water and Reuse Treatment Plant Projects - Continuing Contracts (CCNA)

RLI 25-072

October 15, 2025

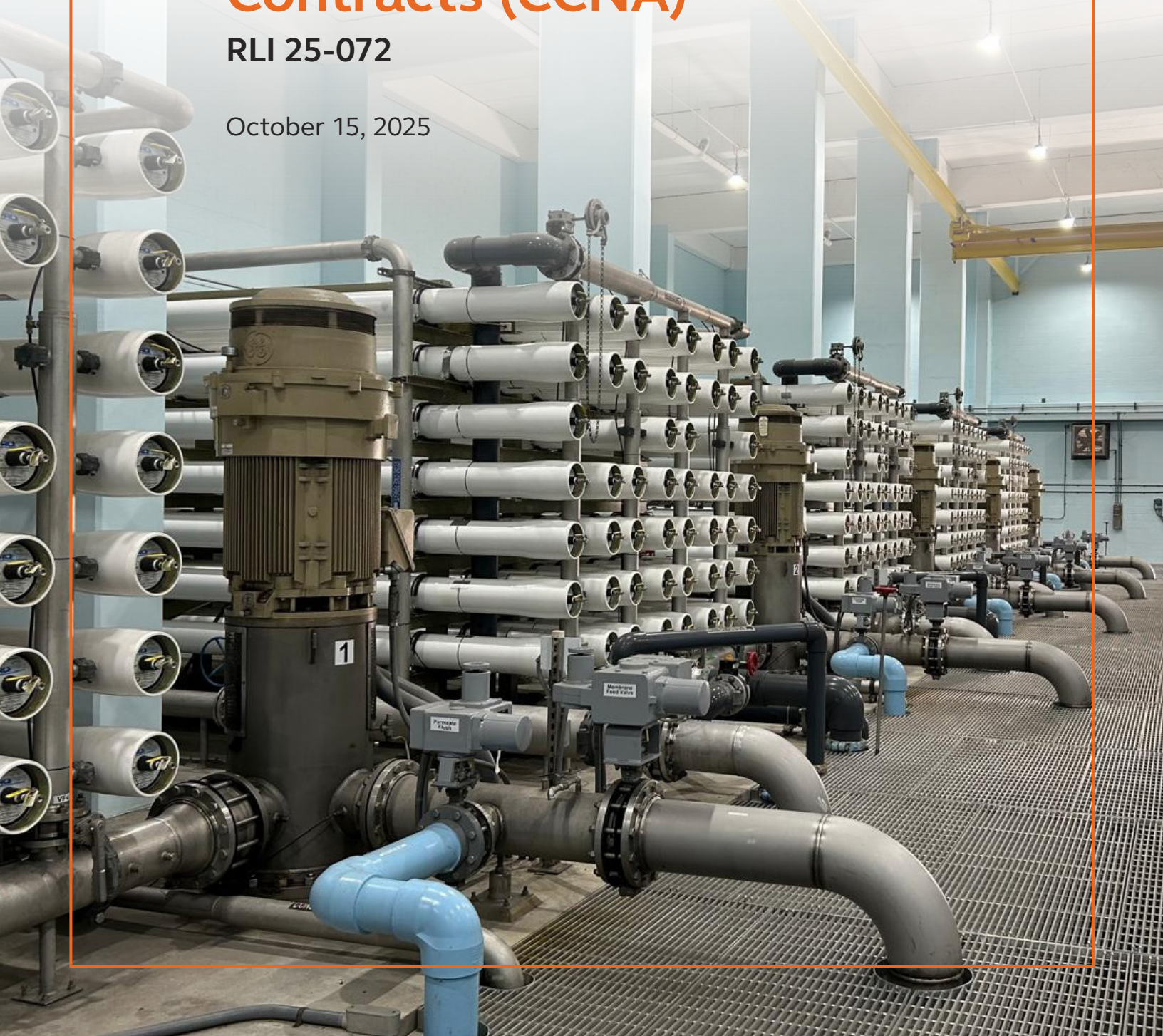




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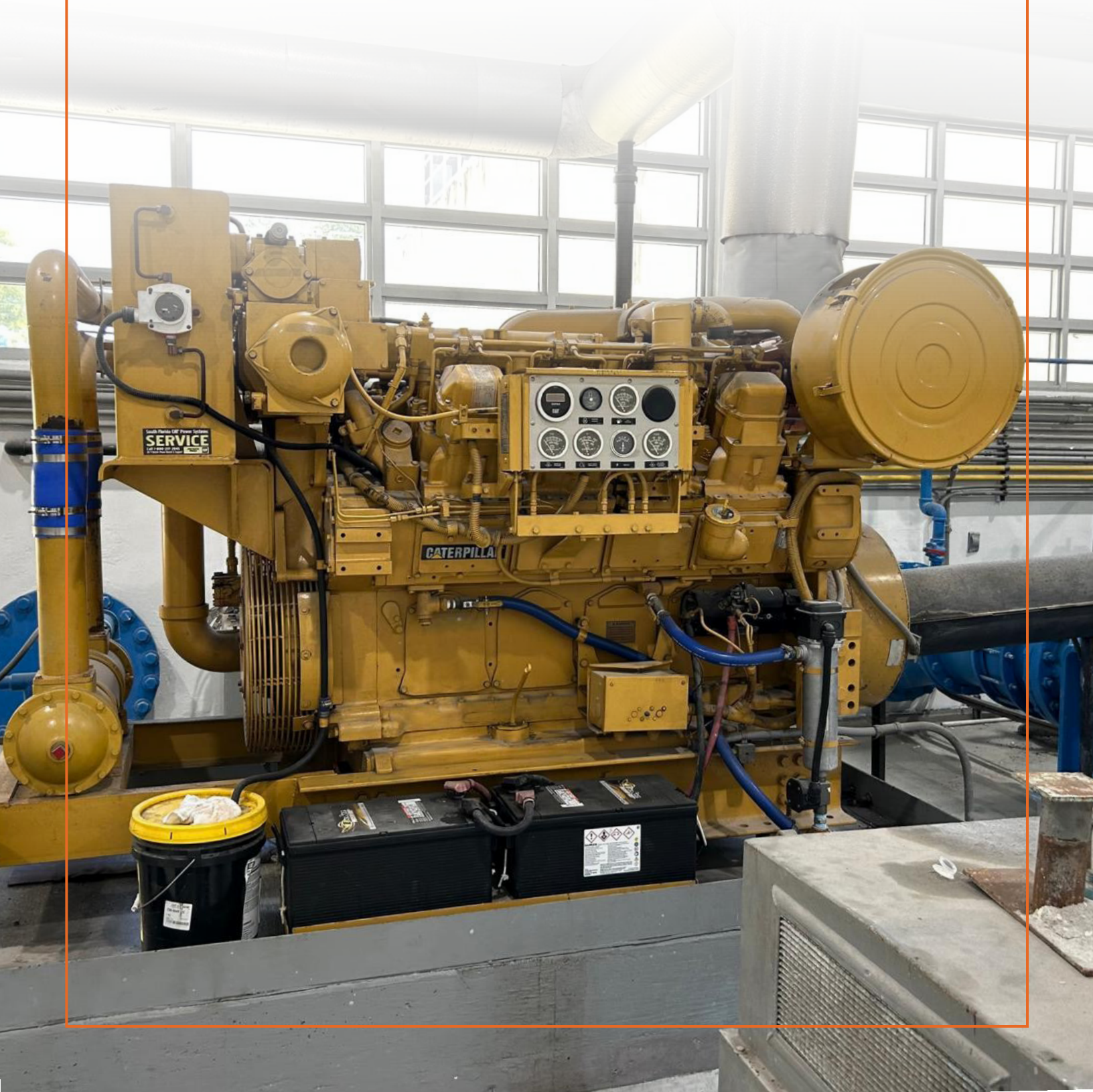
City Forms & Other Required Information

This proposal and its contents shall not be duplicated, used or disclosed in whole or in part for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of or in connection with the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.



Section 01.

Letter of Transmittal



October 15, 2025

City of Pompano Beach, FL
Mr. Jeffrey English, Purchasing
1010 NE 3 Avenue
Pompano Beach, FL 33060

Re: Water and Reuse Treatment Plant Projects – Continuing Contracts (CCNA) / RLI 25-072

Dear Mr. English and Evaluation Committee Members:

Arcadis U.S., Inc (Arcadis) is pleased to submit this proposal to continue our partnership with the City of Pompano Beach (City). Our extensive local and national experience across all aspects of water and reuse treatment infrastructure and operations positions us as the ideal partner to support the City's ongoing success.

Arcadis offers the breadth and depth of resources and expertise to best serve the City, stemming from our committed service to clients; our diverse engineering and management consulting experience; a leading global, multi-service organization; and an unmatched organizational culture that fosters innovation and creates sustainable solutions to improve quality of life. As your professional engineering consultant of choice through this contract, Arcadis brings **135+ years of expertise, 30+ years of Florida experience**, and a multi-disciplinary local Florida team with all the capabilities required to meet the City's needs and goals.

Our team offers the following key benefits, showcasing our distinct qualifications, experience, and capabilities to best serve the City under this contract:



A long-standing and successful relationship with the City. Through our legacy firms Malcolm Pirnie and IBI Group (now Arcadis), we possess a rich history of successful project delivery in the City. Our professional services have consistently supported the City and the Pompano Beach CRA, alongside private sector clients. This extensive local experience spans critical utility projects delivered under a water/reclaimed water treatment plant engineering services contract, and more recent contributions to landscape, urbanism, and architecture, such as Mitchell Moore Park, Briny Avenue Streetscape, Exchange Club Park, the Copans Transit Operations Facility, the City's Public Art Master Plan, and Martin Luther King Boulevard.



A local project office coupled with multiple area offices offers rapid responses to all task needs.

Arcadis maintains a full-time design office in Plantation, supported by additional area offices in Boca Raton, Coral Gables, Orlando, and Tampa. This network enables us to provide rapid, agile responses to all task requirements, particularly for on-call assignments that demand immediate personnel availability without additional procurement processes. Across these Florida offices, our team comprises over 440 experienced industry professionals with a proven track record of delivering successful projects statewide. In addition, our clients benefit from access to Arcadis' global network of more than 36,000 experts, ensuring both local knowledge and world-class resources are available for every project need.



A talented, local and experienced leadership team. The City can be confident that your projects will be led by dedicated professionals with a proven track record of success. Led by Project Manager **Diego Barrios**, PE, and Principal-in-Charge **Leah Richter**, PE, our Florida-based leadership team is supported by a group of subject matter experts including **Guy LePatourel**, PE (40+ years plant rehabilitation and design experience) and **Sean Chaparro**, PE (24+ years planning, design, and regulatory experience). Each team member brings specialized expertise and diverse experience to their role, ensuring seamless project delivery and outstanding results. We are dedicated to delivering rapid response, efficient project management, and successful outcomes that are tailored to the City's unique requirements and budget objectives.



Global PFAS and WTP technology experts to give you confidence in results. Arcadis is at the forefront of the global effort to remove PFAS from impacted utilities, sites and environments, with over 400 projects in 14 countries. We have been working in partnership with our clients both nationally and internationally on per- and polyfluoroalkyl substances (PFAS) since 2004, when we performed the first ever site-specific environmental risk assessments at a European PFAS site. We are working on cutting-edge research with nine universities globally to develop treatment technologies and understand the ecological impacts of PFAS and have worked on many drinking water treatment projects throughout the US to address PFAS. Due to the associated complexities of dealing with emerging contaminants that are difficult to treat, our approach is to have our national experts available to the City for any PFAS related need that arises during this contract duration.



Innovative approaches and forward-thinking solutions. A fundamental knowledge of utilities' core services is the foundation of Arcadis' approach to providing high-value solutions – from strategy and planning to optimization, implementation and measurable results. Our team has partnered with hundreds of utilities across the U.S. and Florida including City of Fort Lauderdale, City of Hollywood, City of Miramar, Sarasota County, City of Tampa, Miami-Dade County Water and Sewer Department, Toho Water Authority, JEA, and Tampa Bay Water. We develop solutions that support key utility innovation drivers like operational efficiency, regulatory compliance, affordability, and customer expectation. We also provide specialized construction management, inspection, and business advisory services, including asset management, funding and grant management, and digital consulting. Arcadis commits to being a knowledgeable and collaborative partner at every step, ensuring the City's challenges are met with tailored, practical, and sustainable solutions.



Resilience is in our DNA; Sustainability is our commitment. The City recognizes the importance of integrating resilient and sustainable design and construction to improve the quality of life of its residents. Arcadis, a global leader in resilience planning and execution, will help drive the City's initiatives forward to help the City succeed. We understand Florida's unique conditions and have led a variety of marquee risk and resilience assessments for potable water systems, vulnerability assessments, emergency management and response planning, resilience planning and engineering projects throughout the state, while simultaneously creating value for Florida and its people. We offer an unmatched ability to integrate resilience and sustainability principles into all the services we provide thereby promoting sustainable and cost-effective approaches.

Should you have any questions about our proposal or require additional information from us, please do not hesitate to contact us. Thank you for your time in considering Arcadis.

Sincerely,
Arcadis U.S., Inc.

Leah K. Richter, PE
Principal-in-Charge

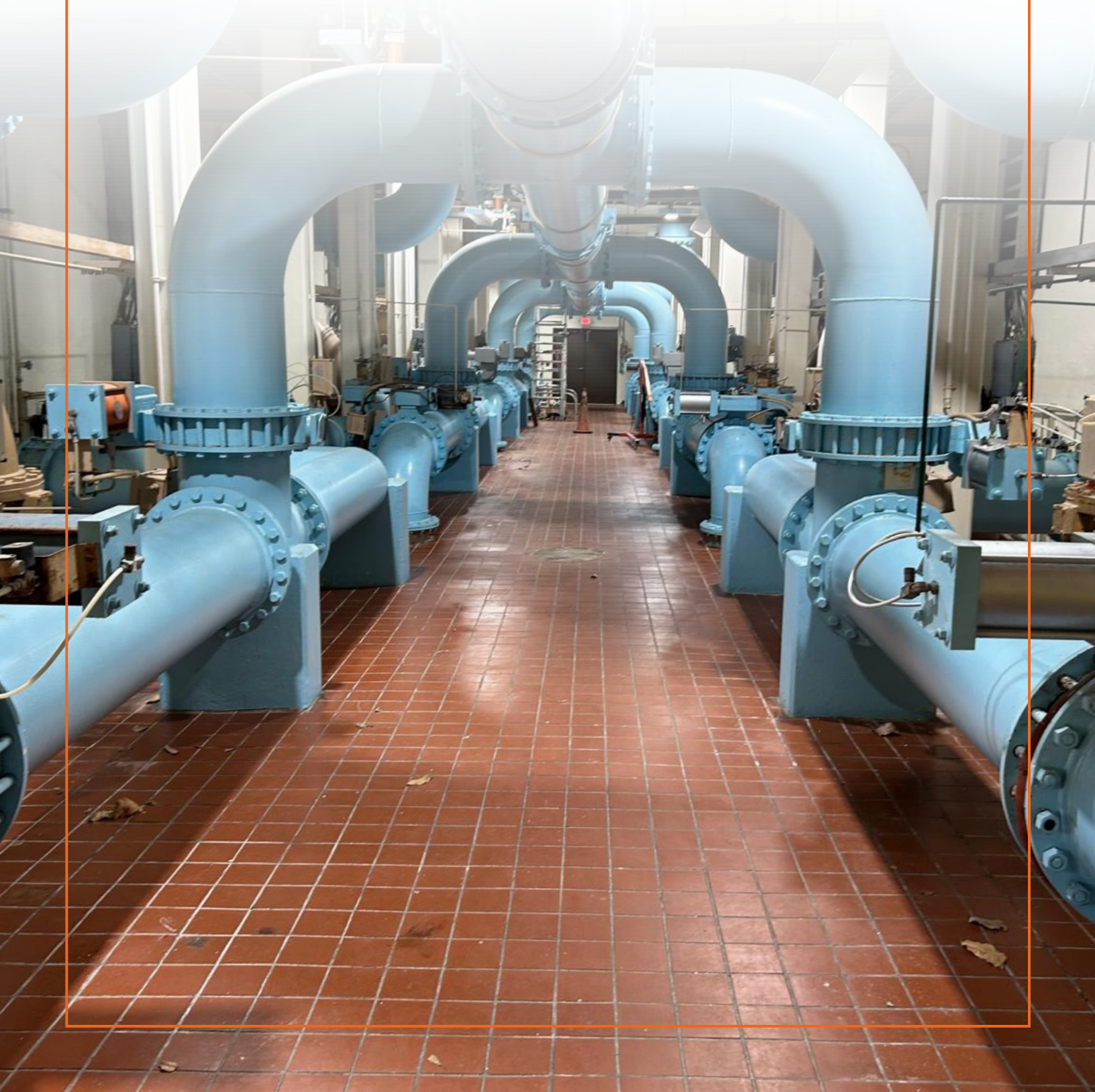
✉ leah.richter@arcadis.com | ☎ 954.525.2499

Diego Barrios, PE
Project Manager

✉ diego.barrios@arcadis.com | ☎ 954.899.5517



Section 02. Technical Approach



02. Technical Approach

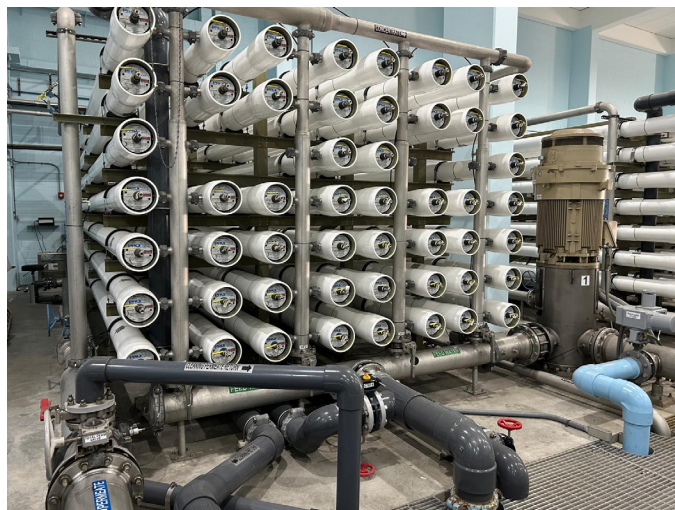
Project Understanding

Arcadis (through our legacy firms Malcolm Pirnie and IBI Group) has worked closely with the City of Pompano Beach (City) for about 30 years. We have developed excellent relationship with City staff and are familiar with your methods of operation. Arcadis is a recognized leader in providing the full scope of water treatment and reuse needs identified in your Request for Letter of Interest (RLI). Our extensive experience in Florida, especially with other Broward County municipalities, makes us uniquely qualified to address the City future planning and project needs for both Water Treatment Plant (WTP) and Reuse projects.

The City's WTP is a 50 million gallons per day (mgd) facility that uses both conventional lime softening treatment (40 mgd) and nanofiltration membrane treatment (10 mgd). The City has recently confirmed the presence of **per-and polyfluoroalkyl substances (PFAS) in the source water and wishes to proactively address this to comply with the current and potential future USEPA regulations.** We understand the City has embarked on an ambitious project to remove PFAS as part of the treatment process. Lime softening is not suited to removal of PFAS, which is typically achieved through other treatment methods. The first phase of the current ongoing project is increasing the capacity of the nanofiltration membranes from 10 to 12 mgd for a combined membrane capacity in excess of 20 mgd. A second phase proposes increases the membrane treatment capacity by an additional 8 to 10 mgd. While the City is currently engaged with another consultant for this PFAS removal project, Arcadis brings unique local and national expertise and global experience that can further support the City in achieving its



Oasis Reuse Water Plant Storage Tanks - City of Pompano Beach



Nanofiltration Train No. 1 and Feed Pump - City of Pompano Beach.

environmental and public health objectives for this project. We respect existing relationships and aim to fill technical or strategic gaps at the discretion of the City. Our approach in the following pages is rooted in partnership, focusing on shared projects success and benefits to the client.

In terms of water reuse, we understand the City is one of the first Broward County municipalities that started using water reuse for lawn irrigation in 1989. The Oasis Reuse Plant receives treated water from Broward County NRWTF where it is further treated, cleaned and tested before distribution to the reuse system. The Oasis Reuse Plant treated close to 3 mgd in 2024. The City's Reuse Master Plan calls for continuous growth of the system in the future, which will result in additional improvements and modifications to the Reuse Plant.

Five-Year Capital Improvement Plan

Based on the City's proposed Five-Year Capital Improvement Plan (CIP) and previous discussions with City staff, we understand that there may be several upcoming needs for the WTP and Oasis Reuse Plant that may be implemented under this Continuing Services Contract. These projects could include additional reuse storage, and pumping capacity improvements at the Oasis Reuse Plant for emerging contaminants, well upgrades, and additional improvements at the WTP. We have also identified wastewater, water, reuse and water supply master plan updates as part of the CIP. Our team has unique experience in master planning for other coastal communities in South Florida which are presented throughout this approach.

Technical Approach for Planning and Design Services

Studies and Planning

Arcadis brings extensive expertise in water, wastewater, and reuse treatment system studies and master planning for municipal clients across South Florida and the entire state. Our team develops and updates comprehensive planning documents and master plans that assess the condition, capacity, and future requirements of critical infrastructure—including wellfields, treatment and reuse plants, storage facilities, and distribution and collection systems. These studies provide municipalities with the insights needed to make informed decisions on asset expansion, rehabilitation, and replacement, ensuring alignment with their long-term goals and strategic priorities.

Our approach begins with a detailed analysis of growth needs and hydraulic modeling, including a review of current water reuse and conservation efforts, per-capita consumption trends, and population projections. This informs us of both current and future capacity service levels required over the planning horizon. **We apply an asset management framework that considers physical condition, performance reliability, redundancy, capacity changes, and evolving regulations in our planning efforts and asset assessments.** These assessments combine desktop evaluations with on-site inspections by multidisciplinary teams to ensure a complete understanding of asset status and improvement needs.

Our team also provides rigorous performance evaluations of the treatment facilities, leveraging engineering analyses, document reviews, and stakeholder interviews. This process identifies potential failure modes and supports accurate assessment of remaining life, while also highlighting opportunities to introduce new technologies or equipment.

We apply risk-based prioritization, asset criticality scoring, and business case analysis—along with triple bottom line criteria—to confirm that projects are justified, feasible, and aligned with client objectives. Our planning is supported by digital tools that enable seamless updates and integration with asset management and hydraulic modeling platforms.

This proven methodology demonstrates Arcadis' ability to deliver data-driven, transparent, and forward-looking planning solutions that help utilities prioritize investments, optimize operations, and maintain compliance with regulatory requirements.

Relevant Project Example:

City of Hollywood Water Master Plan City of Hollywood, FL



WTP systems evaluated as part of the Master Plan - City of Hollywood

Arcadis recently completed the water master plan for the City of Hollywood, Florida, providing a 20-year planning horizon and risk-based capital plan for the City's Water Treatment Plant. A cornerstone of our success on the City of Hollywood's Master Plan was the leadership of **Sean Chaparro, PE**. Sean's expertise was instrumental in guiding multidisciplinary teams through complex technical challenges, engaging effectively with municipal stakeholders, and ensuring that every task of the master plan, from initial assessments to final recommendations, met the highest standards of quality and rigor. His commitment and leadership were indispensable to delivering a comprehensive, actionable, and high-quality master plan for the City of Hollywood.



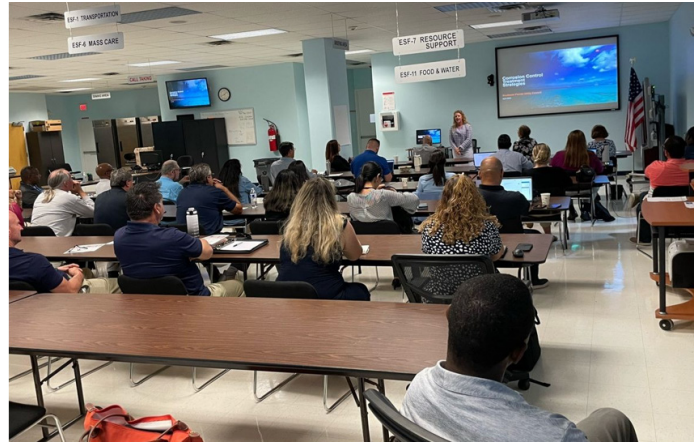
Sean Chaparro, PE

Sean Chaparro, PE has led several of Arcadis' most impactful water treatment planning and design projects over the past decade. His portfolio includes master plans for the City of Tallahassee and City of Hollywood, the Carlton EDR project for Sarasota County, and the rehabilitation and expansion of the PRASA Superaqueduct 100 MGD Water Treatment Plant.

Regulatory Compliance and Permitting

At Arcadis, our permitting approach is guided by proactive collaboration, regulatory expertise, and streamlined project management. We engage early with local, state, and federal agencies to identify permitting requirements, anticipate potential challenges, and establish clear timelines. Our multidisciplinary team leverages our extensive experience to prepare comprehensive permit applications that meet compliance and thus minimize delays. By maintaining open communication with all stakeholders and adapting to evolving regulations, we facilitate a smooth permitting process that supports timely project delivery and aligns with our clients' goals for sustainability, safety, and operational excellence.

In recent years, most of the municipalities and Counties Building Departments and State Regulatory Agencies like the Florida Department of Environmental Protection (FDEP) have shifted to digital permit applications. This allows the agencies to improve efficiency and transparency in terms of document control and responses to applicants. For the applicants, this shortens the time from project start to project bid durations. Arcadis is well experienced in obtaining permitting approvals from all levels of government and multiple jurisdictions in Broward County and South Florida. To expedite the permitting process, we start the pre-application processes early in the design and submit dry-run sets once the City has approved a 60%+ (Advanced Design) milestone. Based on our experience, using this approach along with meeting with the agency early will result in an expedited permit process with minimum to no Requests for Additional Information (RAIs).



Amanda Berger (Arcadis) presenting on Corrosion Control Strategies at the City of Pompano Beach Utilities Building (2024).

Relevant Project Example:

Woodley Road WRF NDPES Renewal City of Tavares, FL



Arcadis assisted the City of Tavares in obtaining their most recent NDPES permit renewal for the Woodley Road WRF. Our team engaged FDEP early in the process and conducted a pre-application meeting in which we discussed facility changes, permit changes, timeframes of data analysis, re-confirmed submittal requirements and fees, among others. The City of Tavares obtained a 10-year permit, with no Requests for Additional Information (RAIs) required.

Arcadis Regulatory Leadership

- Authors the original Lead and Cooper Rule Guidance Manual.
- Authors the Managing Change and Unintended Consequences: Lead and Copper Rule Corrosion Control Treatment guidance for AWWA.
- Conducts an evaluation of the potential cost impacts of various LT-LCR regulatory scenarios.
- Assists AWWA to evaluate and provide technical support to AWWA on the current state of knowledge with respect to lead and copper corrosion.

- Following release of the draft LCR revisions, Arcadis prepares comments for submittal and presents the proposed changes in several AWWA webinars.
- Contributes to a white paper on current understanding and regulatory challenges associated with regulating copper corrosion.

Hydraulic Modeling and Analysis, Including Computation Fluid Dynamics (CFD)

Smart use of computer models in the planning and design of water systems is a typical part of the Arcadis approach. Our staff members have provided hydraulic modeling for systems such as pressurized and open-channel flows in WTP; transient pressures/surge analyses; and CFD for treatment process basins and reservoirs. We maintain an extensive library of applications and a staff of programmers to develop new programs or adapt existing programs for specific project needs. As the need arises, we will meet with you to collaboratively assess CFD needs to find solutions to your WTP concerns.

Design of New and Upgraded Treatment Facilities

At Arcadis, we recognize the importance of delivering robust, sustainable, and cost-effective water treatment solutions. Our approach provides for the integration of technical interdisciplinary excellence, stakeholder engagement (from engineering and the operations side), and rigorous cost management from the concept stages through the final design.

Our design team proposed for the City is a fully integrated team that brings together process, mechanical, civil, electrical, structural, environmental and instrumentation engineers, along with architects and Operations and Maintenance experts. For this contract, this team will utilize BIM, a cloud-based document management and digital collaboration platform to ensure seamless information is sharing between the disciplines and with the City.

In terms of design deliverables, our team evaluates the size of the scope and any stipulated deadlines from regulatory agencies like Consent Orders to determine the design deliverables proposed. Although this will vary depending on the project to expedite it, we typically have:

- Preliminary Design (30% design/planning document)
- Detailed Design (60% and 90% design)
- Final Design (100% design)

Each of these deliverables will include drawings, technical specifications, project schedule, Engineer's Opinion of Probable Construction Costs (EOPCC) and a comments resolution form with the response to the comments from the reviewers. After each delivery, a design workshop is coordinated where City staff and

Arcadis get together to discuss the design and get feedback from the City.

Another important component of our treatment facilities design approach is Value Engineering (VE). This VE process will identify cost drivers, assess alternative materials/technologies, optimize layouts and challenge specifications to enhance value of the project. The City will be involved in this process to ensure alignment with the project goals and lifecycle cost savings.

Additionally, our construction team and licensed operators work closely with our design team to offer expert guidance on maintenance of plant operations (MOPO) and other constructability considerations. These in-house capabilities strengthen our overall service offering for each project, ensuring that designs are practical, minimize operational disruptions during implementation, and proactively address future maintenance needs. This integrated approach helps allow successful project delivery from concept through completion.

We also understand how volatile the construction market has been during the past years. To address this issue and avoid heavy discrepancies with Contractor's bids, we have a dedicated cost estimator, **Meghan Naumick, CEP, LEED GA**, who will serve throughout the duration of the design. Ms. Naumick is highly qualified estimator and is aware of the market trends and prices fluctuations in South Florida. We have seen that having the estimator involved early during the design stage ensures that accurate EOPCCs are obtained at the end of the design process.

Our proven design approach, and strong plant design experience gives us the capability to perform detailed design for any existing or new facility that may be required as part of the City's program.



Jose Custodio, PE

Jose Custodio, served as the Project Manager and Engineer of Record for the following nanofiltration upsizing project located on the next page. Thanks to his experience on the municipal side, he has a deep understanding regarding constructability, operability, maintainability and overall design of public utilities from the owner's perspective.

Relevant Project Example:

Miramar W-WTP Nanofiltration Upsizing

City of Miramar, FL



Upsizing of the nanofiltration train and piping - City of Miramar, FL.

Arcadis provided comprehensive engineering services for the replacement of the City of Miramar's existing nanofiltration (NF) membrane trains at the West Water Treatment Plant (W-WTP) increasing the total capacity by 25%. Our approach centered on close collaboration with City staff to develop cost-effective solutions, create a robust phasing plan to ensure uninterrupted plant operations during construction, and prepare detailed MOPO requirements as part of the contract documents.

The W-WTP treats raw water from the Biscayne and Floridan aquifers, with five aging NF trains providing a combined treatment capacity of 9.25 MGD. This project replaced and upgraded four of the NF trains to achieve a permeate capacity of at least 2.5 MGD per train, increasing flexibility and future-proofing the facility's operations. Arcadis delivered all required design documents—including the conceptual technical memorandum, 75%, 90% and final design and permitting support—to facilitate a seamless and successful upgrade, positioning the City to meet its current and future water treatment needs. The FDEP Permit for this project was obtained in just 3 weeks and no comments were provided by the agency.

Relevant Project Example:

Carlton EDR Phase 1 and Phase 2

Sarasota County, FL

The Carlton WTP is a 12 mgd membrane treatment facility that includes degasification, pressure filtration, electro dialysis reversal (EDR), disinfection and pH adjustment. Arcadis was the EOR throughout the multiple phases of this project to replace the aging Mark 3 membranes with new modern Mark 4 EDR

membranes. **Guy Le Patourel, our proposed Quality Manager for this RLI**, led the process design aspects for the evaluation of different EDR configurations, development of a Preliminary Engineering Report, detailed design, specifications and cost estimates, permit applications, bidding support and services during construction. An important task of this effort is that Arcadis completed a funding scenario evaluation to develop a recommended 30-year funding plan to maintain and meet target risk levels for the plant.



EDR System replaced at Carlton WTP – Sarasota County

Relevant Project Example:

Hamlin Water Reclamation Facility

Winter Garden, FL



Arcadis was the lead designer of the 5 MGD greenfield Hamlin Water Reclamation Facility for Orange County Utilities (OCU). The project included a new force main to the new reclamation facility, a 5-stage Biological Nutrient Removal (BNR) Treatment, tertiary filtration system, reclaimed water storage and distribution pump station, among others.

Relevant Project Example:

Pilot Study RO/MS Membranes

City of Hollywood, FL



David Trujillo providing field support on the WTP Pilot Study - City of Hollywood

An evaluation of the current state-of-the-art advanced membrane treatment technologies formed a key part of Arcadis' work performed for the City of Hollywood, Florida. This included a recent pilot study with nanofiltration (NF) and reverse osmosis (RO) system evaluating innovative hybrid array designs and interstage boosting to improve energy efficiency and permeate water quality. By operating pilot plants under real-world conditions, Arcadis generated valuable data that informs full-scale system design, with the goal of reducing energy consumption, minimizing cleaning frequency, and extending membrane life compared to traditional configurations.

Study efforts also focused on optimizing chemical treatment strategies. Through targeted pilot testing of alternative antiscalants, Arcadis explored ways to reduce or eliminate the use of sulfuric acid, thereby lowering operational costs and environmental impacts. **This study for the City of Hollywood demonstrated that sulfuric acid dosing could be eliminated, resulting in annual savings of up to \$200,000 while achieving high system recovery and water quality.**

The results of the pilot study were compiled on a comprehensive Basis of Design Report, which guided the development of a full-scale system upgrades and modifications to chemical storage and dosing facilities.

This rigorous, data-driven approach ensured that all recommended solutions were innovative, sustainable, and tailored to the specific needs of the City.

Relevant Project Example:

Miami-Dade Water and Sewer Department - Integrated Master Plan

Miami-Dade Water and Sewer Department, Miami, FL



Preston Water Treatment Plant filters - MDWASD

As part of the Integrated Master Plan for Miami-Dade Water and Sewer Department (WASD), Arcadis conducted a comprehensive review of current and anticipated regulatory drivers and water quality requirements for the South Dade system and the three major regional water treatment plants—John E. Preston, Hialeah, and Alexander Orr. Our team summarized critical regulatory developments affecting WASD, including updates to water use permits, the Lead and Copper Rule (LCRR and LCRI), new PFAS and PFOA regulations, UCMR 5, disinfection byproduct rule expansion, and groundwater under direct influence regulations. Emphasis was placed on strengthening communication between WASD, FDEP, and USEPA, as well as developing a trigger-response approach to regulatory changes. Arcadis worked closely with WASD to confirm finished water quality targets, reviewed historical performance, and assessed the suitability of current treatment practices to ensure ongoing and future regulatory compliance.

In parallel, Arcadis evaluated the existing treatment capacities at the South Dade and the three regional water treatment plants, coordinating these efforts with the Water Supply Evaluation task. The analysis included assessing raw water supply constraints, establishing redundancy criteria, and identifying treatment and hydraulic capacities for each process unit. The team reviewed electrical one-line diagrams to confirm service and standby capacities and to identify any limits on future plant expansion. Site visits and interviews with operations staff provided additional insight into operational strategies and challenges. **Led by our proposed Project Manager for this Contract Diego Barrios**, Arcadis performed desktop and hydraulic assessments to define facility capacities, identify equipment limitations, and recommend improvements, ensuring each plant can reliably meet both current and future water demand conditions.

Utility Optimization

Water and reuse utilities today face the dual challenge of delivering superior service and achieving operational excellence, all while managing limited resources and increasing regulatory demands. Arcadis brings a unique blend of technical expertise, industry insight, and business acumen to assist utilities in optimizing plant performance across every facet of their operations.

Maximizing efficiency and reliability in water and reuse requires a holistic approach—one that addresses everything from process performance and energy management to asset reliability and workforce productivity. Arcadis leverages best-in-class practices and advanced digital tools to help utilities unlock opportunities for optimization at every stage of the asset lifecycle, including:

- **Strategic Planning and Asset Management:** Developing data-driven strategies for capital investment, maintenance, and lifecycle asset renewal to extend asset life, reduce risk, and control costs.
- **Process Optimization:** Assessing and enhancing treatment processes to improve energy efficiency, biosolids management, chemical use, and resource recovery, while maintaining compliance and reliability.
- **Digital Transformation:** Implementing integrated data platforms, real-time monitoring, and predictive analytics to enable proactive decision-making and continuous improvement.
- **Workforce and Operational Excellence:** Streamlining workflows, enhancing staff training, and adopting best practices in operations and maintenance to maximize productivity and safety.
- **Financial Sustainability:** Identifying cost-saving measures and innovative revenue streams, such as energy recovery and resource reuse, to ensure long-term financial stability.

Arcadis’ multidisciplinary teams—comprising management consultants, process engineers, digital specialists, and infrastructure experts—partner with utilities to co-create and implement tailored optimization strategies. Our approach is grounded in a fundamental understanding of utility operations and a commitment to measurable, sustainable results.

Our Work Authorization Management Process

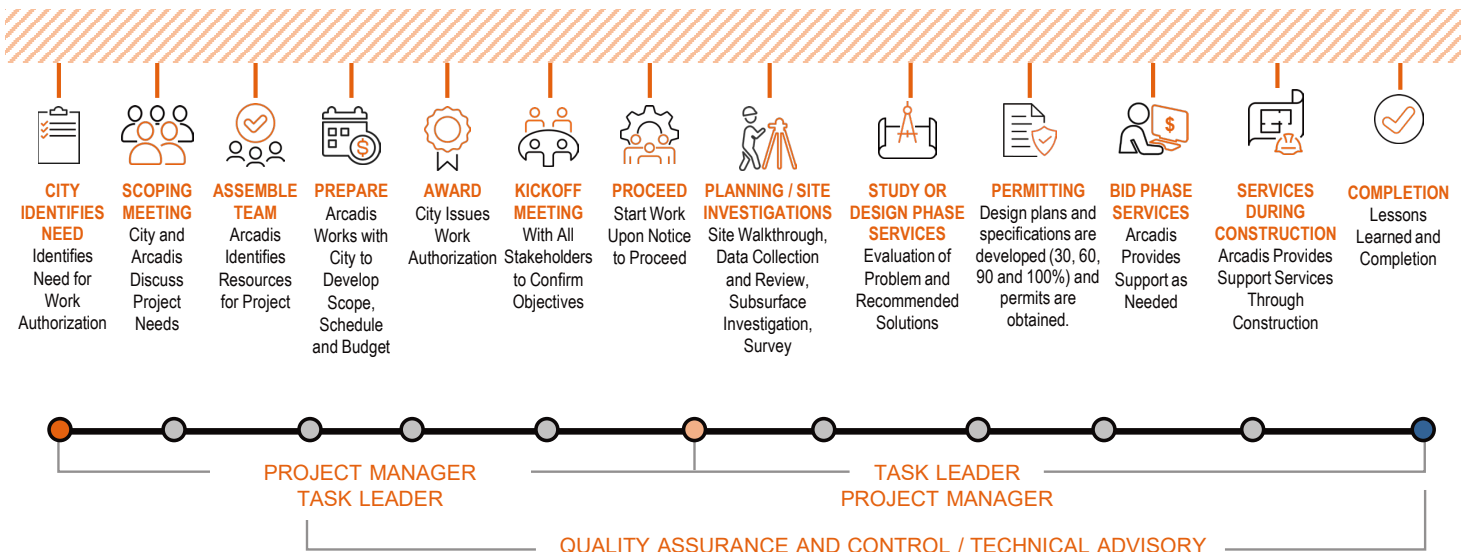
We follow a consistent project management and work authorization development process that is further detailed in the graphic below.

Scoping Meeting

A scoping meeting will be held with the staff from the various City departments that will be involved with the work. The goal of this meeting is to achieve consensus on the purpose, goals, and scope of the project. Consensus among all team members on the project goals at the earliest phase of the work is critical to the long-term success of the project. Our **Project Manager Diego Barrios, PE**, will be present and supported with corresponding Task Leads and Subject Matter Experts as needed, to confirm that the scoping items are adequately defined and that the delivered services will meet the project goals.

Effective Initiation, Team Assembly and Execution of Multiple Assignments

Effective engagement of Task Leads under the overall oversight by the Project Manager is one of the key success factors in managing multiple projects within a work authorization contract. As illustrated in the graphic below, Mr. Barrios will assign a Task Leader for each work authorization based on their expertise as well as identify required resources and assemble the team (including subconsultants). The Project Manager with support from the Task Leaders will assume



day-to-day responsibilities for delivering their work authorizations on time and budget. Mr. Barrios will provide overall oversight and ensure day-to-day management using our state-of-the-art Project Management tools to track and maintain the budget and schedule. Our approaches to project schedule, budget and quality management, and environmental health and safety commitment will be documented in the Project Management Plan developed at the outset of the project and are briefly described in this section.

Work Authorization Development and Award

Information gathered at the scoping meeting and through the Team Assembly will allow the project team to create a draft scope of work, fee estimate, a Work Breakdown Structure (WBS), and preliminary project schedule for review by the City's team. After review and acceptance by the City, the scope, fee, and schedule will be finalized, and a Purchase Order will be provided by the City.

Kickoff Meeting

We always begin all of our projects with a kickoff meeting with all stakeholders and the project team members, including the project manager to confirm project goals and review the project scope, schedule, budget, and administrative procedures. This is also where we discuss identified project risks and possible mitigation actions. We understand that each project is unique and can quickly mobilize and have staff in the field and engaged as quickly as possible.



Existing Cartridge Filters at WTP - City of Pompano Beach, FL

Data Collection and Review

Data will be collected from the City including existing reports, as-builts, existing permits, etc. Field data to be collected may include record drawings, GIS Data, topographic survey, SUE, and geotechnical, past reports, CCTV data, condition assessment data, operation, and maintenance data. This data will be collected and reviewed for use in a study or design. We have Tablets and Digital Tools and capabilities

to securely and efficiently receive and transmit data through controlled information sharing platforms, such as SharePoint and others. The privacy of our Clients' data is paramount to us.

For field condition assessments, Arcadis utilizes the latest software and digital tools to efficiently and comprehensively collect and evaluate water and wastewater system assets. Our leading industry approach allows for quick (less than one week) field data acquisition and quality control.

Design/Study Phase

Depending on the project type, the project will progress to a design or study phase. This phase will include the preparation of a Preliminary Engineering Report and contract documents (plans and specifications) for a design project or a technical memorandum, feasibility study, or evaluation for a study. We meet regularly with stakeholders to discuss the project and to get buy-in on the different elements of the project. In design, plans and specifications will be developed following a typical 30% (conceptual), 60%, 90% (advanced) and 100% (bid) milestones (unless otherwise requested by the City.) Engineering opinions of probable costs will also developed at each milestone. Our team will leverage collaborative workshops during each design milestone to discuss design, resolve issues, and gain multi-stakeholder consensus prior to moving forward with next delivery milestone.

Permitting

For a design project, Arcadis will work with the City and the regulatory agencies to identify and prepare the necessary permit applications. We will identify potential permits and permitting agencies early and have preapplication meetings to introduce them to the project and agree on the permit(s) required and the requirements for approval. As part of the permitting process, Arcadis will also respond to request for additional information (RAIs) from corresponding jurisdictional authorities in order to secure permits for the projects.

Bidding Support

Our team will provide a full suite of bidding and procurement assistance services designed to facilitate a transparent, competitive, and efficient selection process. Leveraging our experience with similar municipal infrastructure projects, we will work closely with City staff to assist throughout the bidding phase and see that all required procedures are followed from initial advertisement through contract award. The following outlines our proposed approach and key responsibilities during the bidding and procurement phase of the project:

- **Attend Pre-Bid Meeting.** Our team will attend the pre-bid meeting to present project details, address procedural questions, and clarify the scope of work for prospective bidders. This meeting is a critical opportunity for all bidders to have a thorough understanding of the project requirements and to foster open communication, thereby minimizing misunderstandings and promoting fair competition.
- **Review and Respond to Bidder Questions.** Throughout the bidding period, we will review bidder questions. Clear, concise, and timely responses will be provided to allow bidders to have the information needed to prepare accurate and competitive bids. Our team will coordinate closely with the City to verify responses are consistent with project objectives and the City's requirements.
- **Prepare and Issue Addenda.** If clarifications, modifications, or additional information become necessary during the bidding phase, we will prepare and issue formal addenda to all plan holders. Each addendum will be clearly documented and distributed in accordance with procurement procedures. This process makes certain that all bidders are working from the most current information and that the integrity of the bidding process is maintained.
- **Review and Respond to Bidder Requests for Material Substitution.** We will review any bidder requests for material or product substitutions during the bidding period. Our team will evaluate these requests for compliance with project specifications, performance criteria, and equivalency to the originally specified products. Written responses will be provided to the bidders and, if warranted, addenda will be issued to notify all potential bidders of approved substitutions.
- **Support City in Evaluating Bids.** Upon receipt of bids, we will support the City in evaluating the submittals for completeness, compliance with bid requirements, and overall value. Our evaluation will include a detailed review of bid forms, alternates, unit prices, and supporting documentation to identify the most responsive and responsible bidders.
- **Provide Bid Award Recommendation.** Based on our detailed evaluation of the bids received, we will prepare and submit a formal bid award recommendation to the City. This recommendation will be accompanied by a summary of the evaluation process and rationale for the recommended award, ensuring transparency and supporting the City in making an informed decision.
- **Prepare Conformed Set.** Following the contract award, we will prepare a conformed set of contract documents. This set will incorporate all addenda, clarifications, and approved substitutions issued during the bidding phase, providing a single, authoritative reference for use during construction.

The conformed set will allow all parties to be aligned on the final project scope and requirements.



Engineering Services During Construction

To provide the successful delivery of projects, our team will provide comprehensive construction-phase engineering support services. Our approach emphasizes proactive communication, diligent oversight, and responsive technical support, all aimed at maintaining quality, budget, and schedule objectives. The following outlines our proposed services during construction, each tailored to facilitate effective project execution, mitigate risks, and achieve the intended project outcomes.

- **Attend construction kickoff meeting.** Our team will lead the construction kickoff meeting to review project objectives, establish communication protocols, and clarify roles and responsibilities among all stakeholders. This meeting is essential for aligning expectations, discussing the project schedule, and proactively addressing any initial concerns to set the stage for a successful construction phase.
- **Provide periodic observation to determine compliance with contract documents.** We will perform periodic site visits to observe construction activities and assess compliance with the contract documents. Our observations will focus on verifying that materials, workmanship, and methods conform to specified requirements and that the project is progressing according to the approved plans and specifications. Observation reports and photos will be provided to the City after each visit.
- **Provide general consultation and advice during construction.** Throughout the construction phase, our team will be available to provide general consultation and technical advice to the City. We will assist in interpreting contract documents, resolving unforeseen issues, and ensuring that construction activities align with the project's design intent and regulatory requirements.
- **Attend progress meetings.** We will attend progress meetings with the City, contractor(s), and other key stakeholders. During these meetings, we will discuss project status, review schedules, address ongoing issues, and coordinate upcoming activities. Our participation will help promote clear communication and prompt resolution of any challenges that arise.
- **Review shop drawings and submittals.** Our team will review all shop drawings and submittals provided by the contractor for compliance with the project specifications and design intent. Timely and thorough reviews will facilitate the approval process and minimize delays, ensuring that only approved materials and equipment are incorporated into the project. We will also maintain a submittal log.

- **Respond to Requests for Information.** We will respond to Requests for Information (RFIs) from the contractor in a prompt and efficient manner. Our responses will clarify design intent, resolve ambiguities, and provide direction as needed to support uninterrupted project progress.
- **Review material test reports and field test reports.** Material and field test reports will be reviewed to verify compliance with project requirements. Our team will identify and address any deviations or nonconformities, ensuring that installed materials and systems meet specified standards and quality expectations.
- **Review pay applications.** If requested, we will review contractor pay applications for accuracy and alignment with work completed to date. Our review will include verification of quantities, progress, and compliance with the contract documents, supporting the City in authorizing appropriate payments.
- **Review and assist the City in negotiating change orders.** Should changes to the contract scope arise, we will support the City in the review of proposed change orders for validity, cost reasonableness, and schedule impacts. Our team will assist the City in negotiating these changes for fair and equitable resolutions that align with project objectives and budget constraints.
- **Facilitate startup and generate a punch list during substantial completion.** We will coordinate, facilitate and witness startup process, verifying that all systems are operating as intended. During substantial completion, we will conduct a detailed walkthrough to generate a comprehensive punch list of outstanding items to confirm work is completed to the City's satisfaction before final acceptance.
- **Prepare record drawings reflecting all changes made during construction.** Upon project completion, we will prepare detailed record drawings that accurately reflect all changes, modifications, and as-built conditions encountered during construction. These drawings will provide the City with a reliable reference for future maintenance and operations.

Construction Management (CM)/ Construction Engineering and Inspection (CEI) Services

The Construction Phase is typically the most fast-paced and stressful part of any project, particularly for projects involving upgrades to operational treatment plants. Arcadis provides third-party construction administration, management and CEI services to augment our team's services during construction. The services we propose are efficient and cost-effective to ensure that the City is aware of the status of the project on a current basis, thus enabling

the City to make timely and accurate decisions. For operating facilities coordination with the operating staff is vital. Planning for operations, startup and commissioning will save costs and change orders later. **Our approach to management during construction is to stay informed, act expeditiously, anticipate problems, develop cost-effective solutions and move ahead.**

Arcadis will staff each project authorized by a work authorization with our professionals who have experience to successfully execute the work identified in each respective work authorization. The day-to-day supervision of our on-site staff will be performed by our Construction Administrators. Our Project Manager, Diego Barrios, will be responsible for assigning the proper staff to accomplish successfully all the requirements of each work authorization. Diego will be available to the City at any time to provide the proper assistance regarding the project status, project staff, issue resolution, contractor claims resolution, or to simply consult with City staff.

Construction Management Plan (CMP)

Arcadis typically develops a Construction Management Plan as part of our normal approach to a project. The CMP includes procedures for the following management and decision-making tasks:

- Identify team members, their roles & responsibilities (including the EOR and contractor), the lines of communication, and authority
- Emergency Procedures
- Forms to be utilized
- Document control
- Web-based project controls system procedures
- Cost control/accounting (cash flow analysis/projections)



Arcadis is currently partnering with the City of Fort Lauderdale, the South Florida Water Management District, Orlando Utilities Commission, Hillsborough County, Sarasota County and Gateway CDD among others in Florida to provide construction management, inspection, and other construction phase administrative and support services on a wide variety of pipeline, conveyance and water management projects.

- Time control (schedule reviews/monitoring/updating)
- Meetings (purpose, frequency, minutes, and sign-in sheet)
- Contractor payment requests
- Clarifications/requests for information procedures
- Change order procedures
- Claims mitigation/management procedures (risk avoidance)
- Quality assurance/inspection
- Safety and quality
- Shop drawing review submittal/approval procedures
- Non-conformance notifications (issuing, tracking, and reporting)
- Punch listing procedures
- Project commissioning (Start-up and Testing)
- Project closeout requirements/responsibilities

The objective of the CMP is to review and make recommendations on specific project and contract procedures for administering the projects. The key elements are to organize, monitor, and manage City's projects. Your projects must operate as planned and this takes a team effort. The CMP also serves as a checklist to organize and expedite your construction projects. It schedules, reminds and holds accountable the project team for information to be obtained, recorded and acted upon.

Construction Contract Administration and Inspection

Arcadis will provide construction administration and inspection services as described and act as the liaison between City's project management staff and the contractors for each project. Arcadis will prepare routine letters, memoranda, reports, change orders and other required documentation as necessary for signature by the City. Such items will be shared at weekly coordination meetings and shutdown notice procedures, and work hours will be identified and coordinated by our staff.

Arcadis will provide on-site observation, monitoring and inspection services as requested by the City for each project assigned. All our inspectors have significant water and wastewater construction experience.

The inspection staff will report and coordinate their daily duties with Arcadis' assigned construction administrator. Depending on the size of the project and the City's CEI support needs, we can support the City's project managers with inspectors, CPM schedulers, cost estimators, document managers, claims specialists and engineering support at any given time.

We believe a total project team effort is essential for a successful project. Poor quality and work

installed incorrectly result in unnecessary conflicts, disputes and lost time/delays. Full-time observation, close monitoring and proactive involvement greatly minimizes the possibility of incorrectly installed work.

As an example, our checklists and required signoffs before concrete placement help assure quality and minimize the need for rework.

The inspection staff will maintain comprehensive daily construction reports and assist our Resident Project Representatives in monitoring and recording progress. Normal duties of our CEI staff include:

- Construction Management
- Daily Inspection Support
- Constructability Reviews
- Review of Work, Rejection of Defective Work, Inspection and Tests
- Document Management
- Daily Inspection Reports
- Monthly Progress Reports
- Contractor Monthly Payment Applications Review
- Project Cost Control
- Progress Meetings
- Review of RFI's and Shop Drawings
- Change Management
- Schedule Monitoring and Analysis
- Record Drawings Review
- Start-Up Plan coordination
- Substantial Completion Inspection and Operational Tests
- Commissioning
- Coordination of Project Closeout
- Support during Project Performance Period

Relevant CM/CEI Project Examples:

Construction Engineering Inspection (CEI) Services

City of Fort Lauderdale, FL



Arcadis provided construction engineering and inspection Services (CEI) to the City of Fort Lauderdale Public Works Department on several Utility Projects. Some of these are:

- 48" Finished Water Line to Fiveash WTP – This project entails the installation of 17,500 linear feet of pipe to connect the new Prospect Lake Clean Water Center with a new High Service Pump Station located in the Fiveash WTP. Extensive coordination with Plant staff was needed to ensure continuous operation of the clear wells.
- 48"/54" Redundant Force Main to GTL WWTP – This project includes the installation of approximately 14,000 linear feet of pipe installation and rehabilitation through the City's downtown area.
- A-16 Sanitary Sewer Pump Station – The existing A-16 Pump Station had to be relocated to accommodate the new Federal Courthouse on SE 3rd Street. The work also included a new 10" force main and a 30" water main along SE 3rd Avenue.

Arcadis served as the City's representative, including providing on-site inspection for all construction activities. Responsibilities also included conducting bi-weekly progress meetings with City staff and the contractor to discuss project status, issues during construction, and scheduling to make sure the work was completed on-time without significant delays. Arcadis also reviewed the contractor's pay applications to ensure all City requirements are completed prior to issuance of payments.

Use of Technology to Enhance Delivery

Innovative Solutions

Arcadis uses many digital tools and innovative solutions that can assist or enhance the services provided in the scope of services. These industry-leading digital platforms enable seamless collaboration and data compilation efficiencies along with visual, interactive and easily accessible solutions for our clients. Many tools also increase project efficiency, such as digital data gathering with our FieldNow tool, virtual conflict resolution using our BIM capabilities and drone capabilities to gather information and data that would otherwise be more difficult to obtain. These various tools are identified and briefly described below and are available for use on a wide variety of projects or services the City has identified.

Unmanned Aerial Systems / Drones

Unmanned aerial systems (UASs), commonly called drones, are extremely useful in collecting data remotely. Potential applications include incident/emergency response; surveying/digital terrain monitoring and evaluation of large areas of land or

industrial sites; inspection and monitoring of rail, transmission line, oil and gas, mining, agriculture, and other infrastructure; asset inventory and management; risk assessment; construction management; thermal infrared inspection; land use/land cover studies; vegetation monitoring; emissions and plume monitoring; volumetric calculations; and many other types of projects. The use of drones can be the first step in more efficient, cost-effective and thorough data collection. Combining this improved data collection with innovative digital approaches to managing and visualizing data connects all stakeholders with a comprehensive and definitive understanding of the project at a lower cost than traditional methods.

Traditional vs Drone Surveys		
	Traditional Survey	Drone Survey
Time	180 minutes	20 minutes
Data Points	~200	1.5 million
Points per Minute	1	77,000
Equivalent Cost per Point	\$3	\$0.0004

Construction Site Progress Monitoring

Using specific VR capture cameras and software that originally was developed for use on cell phones, we can capture the construction progress of a project site in VR and immediately share the results with clients and stakeholders on controlled and secure websites. This system allows for viewing of work progress on multiple project sites without the need for site visits. Arcadis currently uses this technology to support weekly progress updates among our clients, contractors and multiple consultants. Progress is viewed and verified, and problems or potential issues can be addressed quickly.

Within the VR images of construction sites, we can include additional information to the VR model by attaching certification and completion documents to the assets themselves. Asset information such as seismic data, environmental hazards information or asset management documentation also can be incorporated into the images.

As site images are captured on a frequent basis (weekly/monthly), stakeholders can go "back in time" to view the site at numerous points over the course of the project. The VR model incorporates date menus to allow for easy access to prior images. This capability is especially helpful in viewing assets or elements that are hidden from the current view behind walls, under floors, in ceiling tiles or in the ground.

HoloBuilder

Arcadis is experienced in using HoloBuilder software in conjunction with 360° cameras to enhance the

documentation of construction work as it progresses through the schedule. Immersive 360° photos are tagged, annotated, and placed relationally on a site plan. This documentation method offers significant benefits:

Remote viewing of project sites. Off-site team members can view and provide solutions to issues as they arise.

Virtual site tours. Nearby scenes or views can be connected to create a virtual walk-through of the site.

Choice of display. Images can be viewed in browsers or on a virtual reality (VR) headset for an immersive experience.

Comprehensive mark-ups. Comprehensive documentation of conditions and installation progress is performed on a periodic basis.

“Time travel.” Team members can review the historical details of installation day to day to identify when a problem may have occurred and how to avoid it moving forward.

Easy collaboration. All team members, not only those on-site, can collaborate on the project in real time. Documentation is performed directly in the HoloBuilder JobWalk application, facilitating fieldwork.

Multiple inputs. HoloBuilder software is capable of integrating with other software such as Autodesk

BIM 360, Autodesk Revit, Autodesk Navisworks and Google Maps.

HoloLens

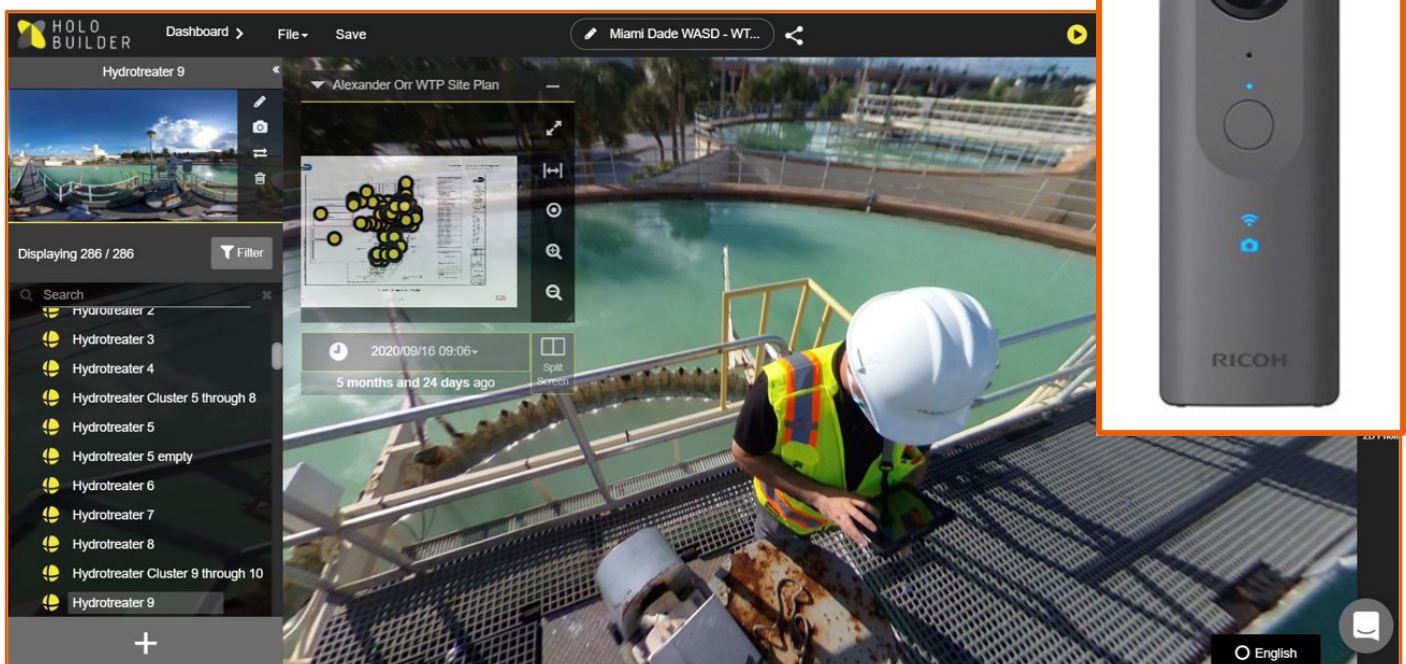
Using Microsoft’s HoloLens mixed reality technology in combination with VisualLive 3D software, a model can be directly overlaid on top of active construction images, merging physical and digital worlds together into one view. This quality assurance tool allows us to detect and resolve issues quickly, minimizing rework and associated costs.

No drawing sets, no on-site internet connection, minimal design familiarity, and no measuring is required to compare construction or existing facilities to the model. Screen captures can be saved and uploaded to a variety of cloud-based platforms for easy sharing.

In addition to the HoloLens version, a version for mobile devices can toggle between AR and VR, giving flexibility to the technology and allowing it to be shared with others or used during internal and external meetings.

One of the advantages Arcadis brings to our clients is we share the best new and vetted technologies with our project managers to determine if they have any projects that would benefit and bring value to our clients.

Reality Capture with 360-degree Camera & HoloBuilder



Remote Expert



Our teams can collaborate using the hands-free Remote Expert AR technology to edit and mark up site representations virtually through a real-time visual link between office staff and remote field sites. Office and field staff members interact to make timely adjustments that improve documentation, asset evaluation, site safety, and adherence to project designs. We have used Remote Expert with hands-free headsets such as the Microsoft HoloLens on several environmental and water project sites.

Reality Capture

Using 360° or 3D cameras, Arcadis collects images that can be experienced as a virtual site walk or a time lapse view. Teams can use editing capabilities to remotely create interactive floor plans with embedded additional information, documents and notations. This interactive imagery enables clients to more efficiently and compliantly manage safety inspections, built assets and more. Visual asset models store information about assets, sites and potential risks. Clickable icons within the models provide supplemental built data, maintenance history and operational health and safety information.

FieldNow

FieldNow™ is Arcadis' 100 percent electronic data collection system. The FieldNow™ program is the first step in a comprehensive approach toward data collection, management and visualization, enabling faster, safer and simpler management of entire projects

and portfolios. Using FieldNow™, Arcadis can provide digital field inspections, surveys and data acquisition, giving teams rapid and even real-time accessibility to field and other data to inform project decisions and integrate with the data reporting and analytic systems that are being developed as part of our digital program. This technology increases data accuracy and quality, reduces time and cost for data collection, and minimizes rework and associated delays.

Via360

Via360 is a digital platform for a virtual, interactive and anytime-anywhere experience for public meetings, stakeholder engagements, training and conferences – all inclusively and sustainably. The Via360 platform integrates our subject matter expertise, consulting skillset and technology capabilities to offer appropriate and enhanced client experience tailored for our clients' communication needs.

“It is exciting to see our project in action in via360. We are interested in using via360 for the next public meeting.”

– Georgia Department of Transportation Office of Planning.

“This is very impressive...good re-creation of actual meeting. Really like how it can be both a one-time and ongoing event.”

– Elisa Pica, Nassau County, New York.





Section 03. References



03. References

Arcadis has earned an outstanding reputation in the industry for providing exceptional services to our clients throughout Florida. Through the services of our experienced and talented staff, we have a track record of delivering complex engineering and resilience projects resulting in a high percentage of repeat business and a long list of satisfied clients.

As requested, we have provided references for past projects in the tri-county area for comparable services recently completed. We encourage the City to contact any of our following clients to inquire about our capabilities and performance record.



Project: General Water and Wastewater Engineering Consulting Services

Client/Location: City of Fort Lauderdale, FL

Project Scope and Arcadis' Responsibilities: Arcadis has been serving the City of Fort Lauderdale's Utilities Division of Public Works as part of the Event 50 Water and Wastewater Consulting Services. Under this Continuing Services Contract, Arcadis provides design, evaluation, and construction support for planned and emergent needs. Some of our recent projects include:

- Fiveash WTP High Service Pump Station Basis of Design Report
- Fiveash WTP New High Service Pump Station Detailed Design
- Fiveash WTP Lime Softening Residuals Ponds Evaluation
- 48" Finished Water Line from Prospect CWC to Fiveash WTP
- Riverland Roads Water Mains Improvements
- A-28 Triplex Pump Station Rehabilitation



Reference:

Daniel Fisher, P.E., Senior Project Manager
City of Fort Lauderdale
954-828-5850
dfisher@fortlauderdale.gov

Contract Term:

2023-Ongoing



Project: Water Treatment and Wastewater Treatment Plant Consulting Services

Client: City of Hollywood, FL

Project Scope and Arcadis' Responsibilities: Arcadis has been serving the City for nearly 20 years. Since the last Water Master Plan was developed in 2007, multiple facilities plan updates have occurred to address the needs at the WTP. Under the General Consultant Services Contract, Arcadis provides design, evaluation, and construction support for planned and emergent needs. A few of our relevant projects include the following:

- WTP High Services Pump Station Upgrades Design and Construction Management Services
- AWIA Risk and Resilience Assessment (RRA) and AWIA Emergency Response Plan (ERP)
- Four Log Disinfection BODR and Design
- WTP Filter Upgrades Evaluation
- Membrane Softening/Nano Filtration Building Pilot Testing
- Water Treatment Plant and Water System Master Plan (conducted as part of a separate Agreement, completed in 2024)



Reference:

Kassandra Myers, Assistant Director, Public Utilities/ Operations
City of Hollywood
954-921-3414
kmyers@hollywoodfl.org

Contract Term:

2006-Ongoing



Project: As-Needed Engineering Services Contract - Water Resources Engineering, Water/ Wastewater Services

Client: City of Tallahassee, FL



Project Scope and Arcadis' Responsibilities: Arcadis has maintained an engineering and professional consulting services contract with the City of Tallahassee (City) for more than 15 years, under which it has successfully completed a number of services for both their potable and wastewater treatment systems. Some tasks completed under our as-needed contract include:

- Water Master Plan Update and Hydraulic Modeling
- Biogas Utilization and Energy Optimization Assessment
- TPS WRF Biogas Blower System Replacement
- BNR Blower Replacement and Blower Improvements
- Well 23 Rehabilitation and Treatment Alternatives Evaluation
- Testing of Iron and Manganese Sequestration Alternatives at Well 23

Reference:

Lina Payne, PE, Civil Engineer III, UU&PI Engineering
 City of Tallahassee
 850-891-6132
 lina.polo@talgov.com

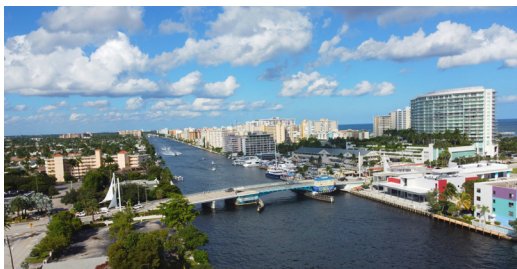
Contract Term:

2009-Ongoing

Experience with the City of Pompano Beach

Arcadis possesses a rich history of successful project delivery in the City. Our professional services have consistently supported the City and the Pompano Beach Community Redevelopment Agency, alongside private sector clients. This extensive local experience spans critical utility projects delivered under a water/reclaimed water treatment plant engineering services contract, and more recent contributions to landscape, urbanism, and architecture. Below we have listed a sample of past projects completed for the City.

Emergency Response Plan



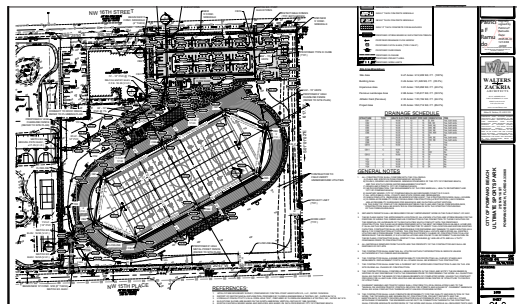
Vulnerability assessment based emergency response plan in accordance with the requirements of the Bioterrorism Act.

Mitchell Moore Park



Design services for a recreation center.

Ultimate Sports Park



Design services for sports complex.

Briny Avenue Streetscape and Urban Design



A coastal road, with resilience design for flood protection and shared use.

Copans Transit Operations Facility



Redevelopment of a fuel-based bus facility to an electrical bus facility, incorporating sustainability features.

Exchange Club Park



Phase 1 services included clearing and grubbing for the eradication of extensive prohibited vegetation while ensuring the preservation of the sensitive wetlands and mangrove areas. Phase 2 services included landscape design and vegetation restoration utilizing 100% Florida native plant species and incorporation of the existing tree inventory.

Public Art Master Plan

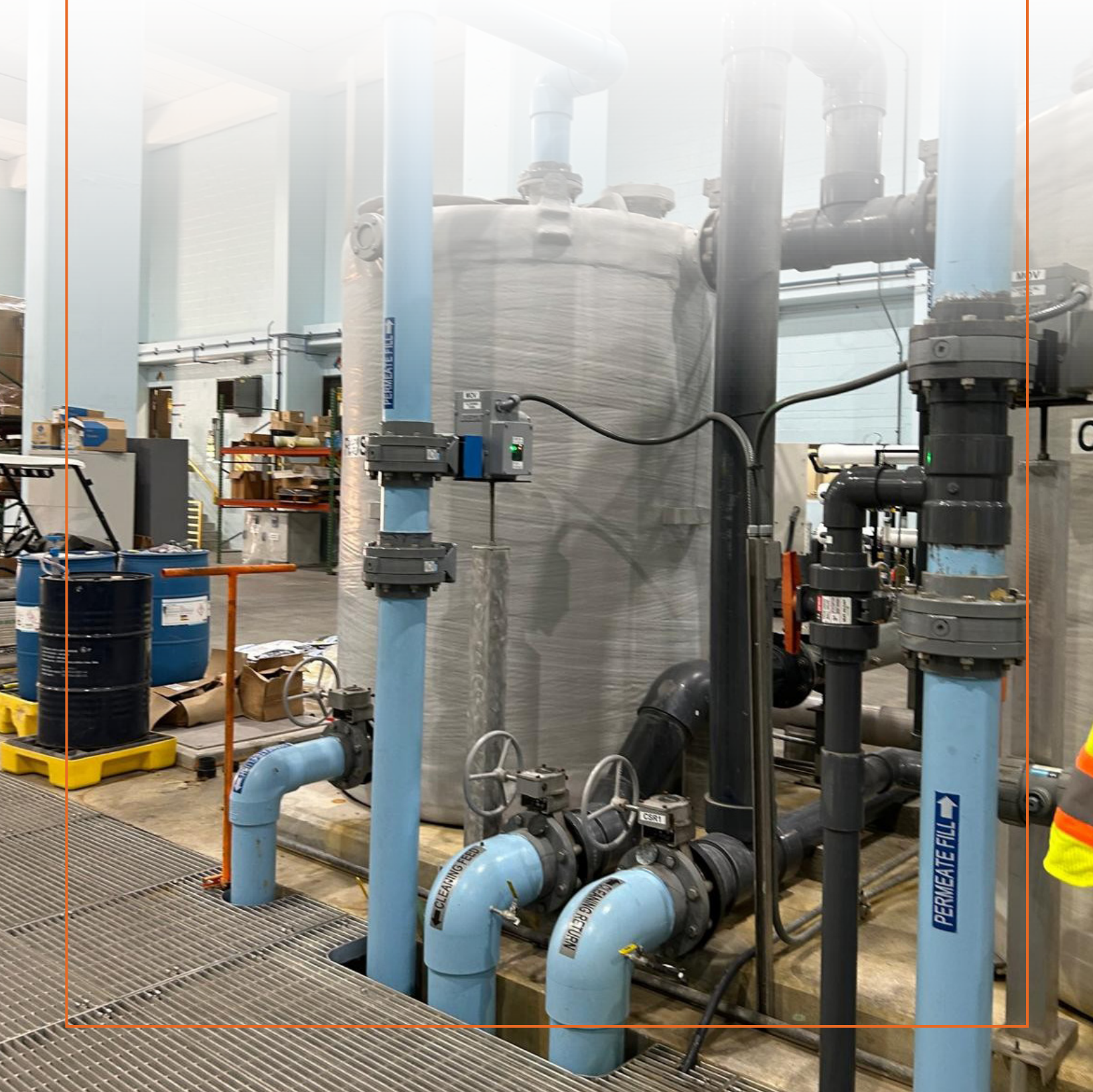


Prepare a Public Art Master Plan that will include 10-year budgeted implementation schedule with recommendations/guidelines for incorporating art in private developments.





Section 04. Project Team Form



04. Project Team Form

PROJECT TEAM

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

RFQ # 25-072 Name: Water and Reuse Treatment Plant Projects - Continuing Contracts (CCNA)
Federal I.D. # 57-0373224

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Project Manager	Diego Barrios, PE	16	BS, Mechanical Engineering, Central University of Venezuela, 2008
Principal-In-Charge	Leah Richter, PE	29	MS, Civil Engineering, Florida Atlantic University, 2002 / BS, Environmental Engineering, University of Florida, 1997
Treatment Planning QA/QC	Rebecca Slabaugh, PE	18	MS, Environmental Engineering, Virginia Polytechnic Institute and State University, 2007/ BS, Civil Engineering, Purdue University, 2005
Treatment Planning QA/QC	Guy Le Patourel, PE, DBIA	40	BS, Civil Engineering, University of Cape Town, 1980
Membrane Technology (RO/NF)	Michael Pilutti, PE	32	BS, Civil Engineering Youngstown State University, 1993
PFAS	Amanda Berger	26	Environmental Science & Biology, University of Wisconsin-Oshkosh, 2010 / Chemical Engineering, Tennessee Technological University, 1998
Lime Softening	Sean Chaparro, PE	24	MS, Environmental Engineering, University of Wisconsin-Madison, 2002 / BS, Environmental Engineering, Michigan Technological University, 2000
Chemicals System	Stephanie Bishop, PE	35	BS, Environmental Engineering, University of Central Florida, 1988
Supply Wells and Groundwater	Martha Wulfange, PG	27	MS, Hydrogeology, Colorado School of Mines, 2017 / BS, Geology, University of California, Santa Barbara, 1998
Process Modeling	Chris Adams, PE	25	BS, Civil Engineering, Georgia Institute of Technology, 2000
Pumping Systems	Brian Duane, PE	43	BS, Mechanical Engineering, Georgia Institute of Technology, 1981
Electrical	Eric Battle, PE	17	BS, Electrical Engineering, Virginia Commonwealth University, 2004
Controls / SCADA	Inna Hely, PE	21	BS, Electrical Engineering, Boston University, 2004
HVAC / Plumbing	Sopeark Chhea, PE, LEED	17	MS, Mechanical Engineer, Union College, 2007 / BS, Mechanical Engineer, Union College, 2006
Structural	Donnell Duncan, PE	22	MS, Civil Engineering, Georgia Institute of Technology, 2003 / BS, Applied Physics, Morehouse College, 2002 / BS, Civil Engineering, Georgia Institute of Technology, 2002
Site Civil	Patricia Ramudo, PE, LEED AP	41	MS, Hydraulics & Hydrology, Cornell University, 1983 / BS, Civil Engineering, University of Miami, 1979
Site Civil	Jose Custodio, PE	16	ME, Construction Engineering, Polytechnic University of PR, 2013 / BS, Civil Engineering, Polytechnic University of PR, 2010

04. Project Team Form

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RFQ # 25-072 Name: Water and Reuse Treatment Plant Projects - Continuing Contracts (CCNA)

Federal I.D. # 57-0373224

PRIME

Role	Name of Individual Assigned to Project	No. of Years Experience	Education, Degrees
Architecture	Errol Dawkins, RA, LEED BD+C	37	Bachelor of Architecture, CUNY City College, 1989 / BS Architecture, CUNY City College, 1988
Landscape Architecture	Debra Hernandez, RLA	29	"Certificate of Landscape Architecture, University of California - Irvine, 1996 "
Construction Management	Darryl Dunn, PE	49	Engineering Coursework, West Georgia College and DeKalb Community College, 1977
Onsite Inspections	Garth White, EI, NASSCO	23	BS, Mechanical Engineer, California State University
Cost Estimating	Meghan Naumick, PE	17	BS, Civil Engineering, San Diego State University, 2008
Constructability Reviews	Chris Matthews, PE	55	BSME Nuclear Engineering, University of Alabama, 1973
Reuse and Effluent Disposal	Kurt Kinney, PE, CPM	12	BS, Food, Agriculture, and Biological Engineering, The Ohio State University, 2014
Asset Management	Celine Hyer, PE, IAM	35	MS, Engineering Management, Florida Institute of Technology, 1989 / BS, Chemical Engineering, Florida Institute of Technology, 1988
Asset Management	Greg Osthus, PE, IAM	36	MS, Environmental Engineering, Manhattan College, 1994 / BS, Civil Engineering, University of Massachusetts, 1987
GIS / Geospatial Analysis	Kristyn McClure	8	MS, Geographic Information Sciences / BS, Environmental Science
Utility Budget and Capital Planning	Melissa L. Pomales, PE, ENV SP, PMP	22	MS, Finance, Indiana University Bloomington, 2014 / MBA, Indiana University Bloomington, 2014 / MS, Civil Engineering, Cornell University, 2004 / BS, Civil Engineering, Cornell University, 2003

Subconsultants

Role	Company/Firm Name & Address of Office Handling the Project	Name of Individual Assigned to the Project
Surveying/SUE	KEITH 301 E. Atlantic Blvd. Pompano Beach, FL 33060	Chuck Schramm, PSM (Survey) Mark Mitchell (SUE)
Surveying	Javier Bidot & Assoc 2385 NW Executive Center Dr #100 Boca Raton, FL 33431	Carlos Lebron, PLS Javier Bidot, PLS
Public Outreach	Dickey Consulting 1033 Sistrunk Blvd, Ste 206 Fort Lauderdale, FL 33311	Sheryl Dickey Dana Gelman
Geotechnical Engineering	Federal Engineering & Testing 3370 NE 5th Ave. Oakland Park, FL 33334	Keith LeBlanc, PE



Section 05.

Organizational Chart



05. Organizational Chart

As shown on the organizational chart below, our Project Leadership Team is supported by a Primary Project Support Team, comprised of professionals with expertise across all key disciplines required for the City of Pompano Beach’s capital projects. Notably, our team brings specialized experience in water treatment plant design, operations, and upgrades. This structured approach ensures efficient collaboration, streamlined communication, and comprehensive support throughout each project phase



Legend:
¹ Florida PE
 * Key Staff

Water Treatment and Reuse					Construction Management and Inspection Services	
Membrane Technology (RO/NF) Michael Pilutti, PE* Brent Alspach, PE, BCEE	Chemicals System Stephanie Bishop, PE ¹ * Gabriel Trejo, PE, ENV SP	Pumping Systems Brian Duane, PE ¹ * Alek Spektor, PE ¹	Structural Donnell Duncan, PE ¹ * Shantanu Dandane, EI	Permitting Kushala Gouda, PE ¹ David Trujillo, EI	Construction Management Darryl Dunn, PE Len Sheptock, CGC	Cost Estimating Meghan Naumick, CEP, LEEDGA* Chris Remme, PE
PFAS Amanda Berger* David Trujillo, EI	Supply Wells and Groundwater Martha Wulftange, PG* Greg Foote, PG	Electrical Eric Battle, PE ¹ * Van Nguyen, EI	Site Civil Patricia Ramudo, PE ¹ , LEED AP* Jose Custodio, PE ¹ *	Landscape Architecture Debra Hernandez, RLA*	Onsite Inspections Garth White, EI, NASSCO* Huascar Burgos	Constructability Reviews Chris Matthews, PE ¹ , CGC* Len Sheptock, CGC
Lime Softening Sean Chaparro, PE ¹ * Kirk Nowack, PhD	Process Modeling Chris Adams, PE* Lauren DaCunha, PE ¹	Controls / SCADA Inna Hely, PE ¹ * Thomas Powell, PE	Architecture Errol Dawkins, RA, LEED BD+C* Manuel Gonzalez-Maya, AIA	HVAC / Plumbing Sopeark Chhea, PE, LEED* Suha Slim	Scheduling/Project Controls Bhadrash Patel, PMI-SP Cheriece Davidson	Contract Solutions Roy Cooper, PE
Filtration System Ashley Kent, PE Chris Waters, PE, BCEE, PMP	Reuse and Effluent Disposal Kurt Kinney, PE* Ifetayo Venner, PE ¹ , ENV SP*	Operations & Maintenance Leslie Steves, PE, IAM Jeffrey Harvey, PE, PMP, CMRP				

Our Value-Added Services for Pompano Beach					
Asset Management & Condition Assessment Celine Hyer, PE ¹ , IAM* Greg Osthues, PE*	Funding/Grants Melissa Hew, CFM James Tanner	Resilient Utility Planning Corie Sapp Sarah Moore, CEM	Intelligent Water and Innovation Prabhu Chandrasekeran, PE Jason Diamond	Utility Budget and Capital Planning Melissa Pomaes, PE ¹ , ENV SP* Robert Ryall, PE ¹	GIS/BIM/CADD Katie Kasperek Angela Dottl

Additional Subconsultants		
Geotechnical Engineering Federal Engineering and Testing Inc.	Survey/SUE KEITH Javier E. Bidot Associates (SBE)	Strategic Communications Dickey Consulting Services, Inc.



Section 06.

Statement of Skills and Experience of Project Team



06. Statement of Skills & Experience of Project Team

Background

Arcadis is a global design, engineering, and consultancy firm that has been operating for over 135 years. With sustainability at the heart of everything we do, our focus is on maximizing our impact aimed at improving quality of life. The solutions we develop address important societal challenges around our four core business areas — resilience, places, mobility, and intelligence.

Leveraging data and technology, we have the capabilities and services to meet client demands driven by global trends such as urbanization, climate change, digitalization, evolving stakeholder expectations, and unforeseeable events.

Arcadis in Florida

We are inherently Floridian. For more than 30 years, Arcadis has delivered municipal water, wastewater and reuse infrastructure, inland and coastal flood protection projects across Florida.

As shown in the figure on the next page, in the last five years, we have worked with more than 35 utilities/municipalities on similar continuing professional engineering services contracts. We have an excellent track record, strong qualifications, and a proven approach to delivering under these types of contracts.

Resilience in southeast Florida has living with water at its core and necessitates a thorough and local understanding of the water-related interdependence of built and natural systems and the cumulative compounding risks they face. Arcadis' local and regional experience in water treatment and reuse design, resilience, water management and water quality are integrated with a long history of delivering water, wastewater and stormwater solutions for many southeast Florida communities since our first office opened in Broward County more than 30 years ago. This provides an unmatched whole system understanding and approach for addressing the water resilience paradigm for the unique conditions in southeast Florida.



7,000 +
U.S. Staff



130 +
Offices



36,000 +
Worldwide
Staff



30 +
Countries

Arcadis at a Glance

135+ YEARS EXPERIENCE



ENGINEERING



UTILITY



WATER/
WASTEWATER



STORMWATER



PLANNING
AND DESIGN



CONSTRUCTION



ENVIRONMENTAL



ADVISORY &
MANAGEMENT

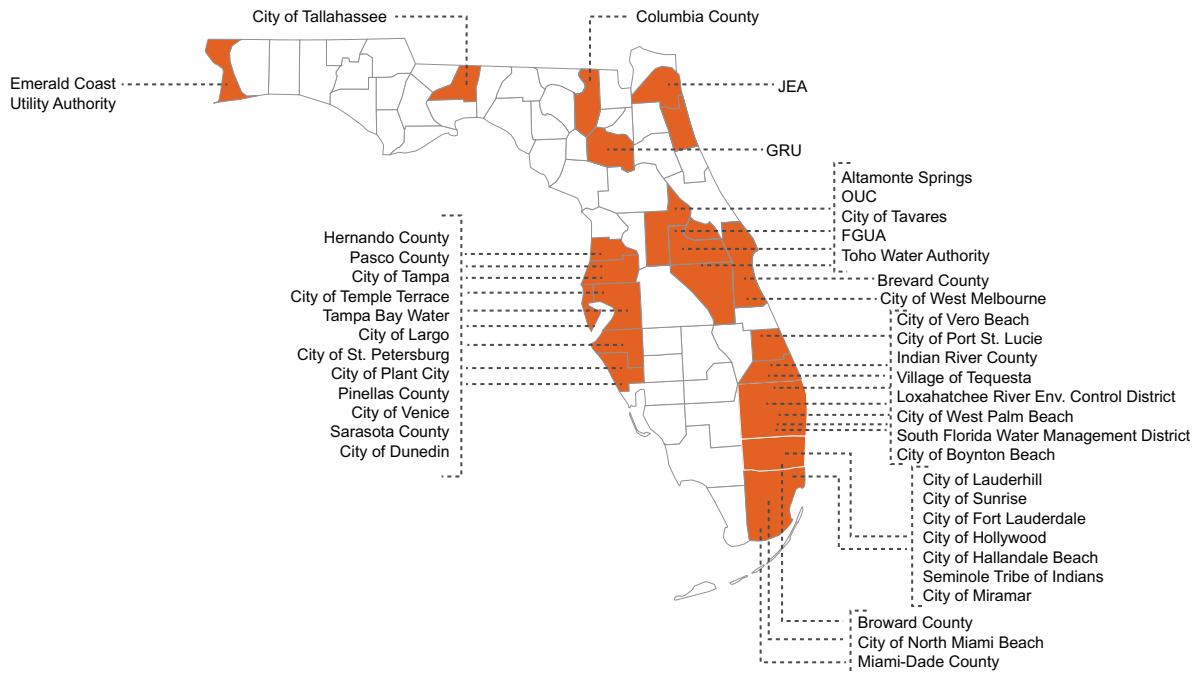


RESILIENCE



ARCHITECTURE
& URBANISM

Master Service Contracts Across Florida Over the Past 5 Years



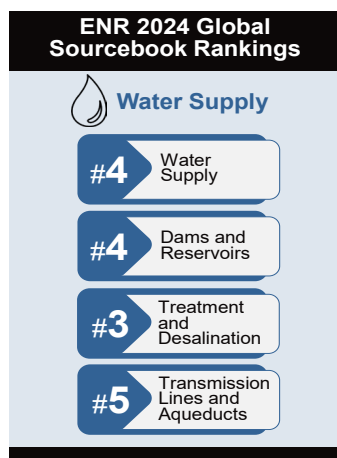
Our Experience

Water Treatment

Arcadis provides a full range of drinking water consulting services – from investigations, planning, and feasibility studies, through design, permitting, and project implementation, construction, and start-up. Arcadis has been an industry leader in introducing innovation and advancing state-of-the-art of water treatment. Our past successes have included the pioneering of the use of new technologies to address increasingly stringent drinking water regulations in the face of rising public demand.

Throughout the past 5 years, Arcadis has worked on more than 400 drinking water projects for more than 150 municipal agencies.

Arcadis is nationally recognized for the quality of our work in water supply and treatment engineering. We provide a comprehensive range of drinking water related services encompassing water supply system master planning, treatability studies involving both conventional treatment processes and innovative technologies, regulatory compliance assistance, pilot-scale demonstration of technologies; and evaluation, design, construction administration, operations and maintenance, startup assistance, and staff training services for all types of water facilities. We are confident that our experience will allow us to develop cost-effective, practical facilities that emphasize operability, dependability, and an ability to respond to both short-term changes in water quality and long-term changes in water quality regulations.



Our facility designs have incorporated intake structures, treatment plants, pumping stations, water transmission mains and tunnels. Arcadis' projects include the design of water treatment, storage, transmission, and distribution facilities ranging in size from one to 1,800 mgd.

Arcadis' strong plant design experience gives us the capability to perform evaluations of existing facilities and provide conceptual, preliminary, and final designs for any new facilities that may be required in a water improvement program. Our treatment facility design experience includes the full array of water treatment facilities (including conventional treatment, ozonation, membranes, UV, GAC, desalination, emerging contaminants), pumping stations, residuals handling and disposal, water storage facilities, distribution systems, and groundwater supply. From award-winning treatment projects such as the Carlsbad Desalination Plant in California to different sized water treatment plants like West Water Treatment, Carlton EDR in Sarasota, and the Hollywood Water Treatment Plant, the Arcadis national and local team is focused on one outcome: meeting our client's goals through innovative

solutions and solving the challenges that are unique to your facilities and service area.



The Carlsbad Desalination Plant (50 MGD) was designed by Arcadis in 2017 and was ACEC National Grand Award Winner.

Our industry leading experience in evaluating drinking water taste and odor problems, screening treatment alternatives, and selecting the most appropriate and affordable treatment technology for a water utility’s unique circumstances. Our services include assistance in conducting customer surveys and panel tests, identification of the origins of taste and odor problems, bench- and pilot-scale testing and cost estimating of treatment alternatives, testing of odor control equipment, and design of treatment systems and monitoring programs. Our Drinking Water Quality Experts, **Rebecca Slabaugh, Stephanie Bishop and Sean Chaparro**, recently completed bench scale testing to validate the feasibility of transition to 4-log disinfection with free chlorine and that doing so would not create a disinfection by-product concern with the distribution system for the City of Hollywood.

Our staff has experience with the variety of technologies and chemicals used to minimize or eliminate taste and odor problems, including:

- Advanced oxidation processes
- Chemical Scrubbers
- Biological filtration
- Ozone
- Granular and powdered activated carbon
- Potassium permanganate
- Chlorine dioxide
- Pipe coating

Also, our water membrane experts, **Michael Pilutti and Brent Alspach**, oversaw pilot testing for the City of Hollywood’s membrane softening (MS) trains and validated the use of new cutting edge antiscalant and innovative membrane pairing. The result of this study is the elimination of acid feed and improved membrane operating pressures. **These innovative applications will result in over \$200,000 annually for the City’s O&M costs.**

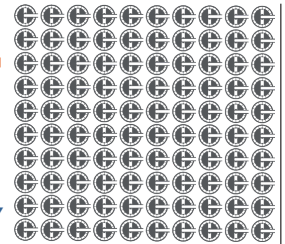
Our experience also includes membrane softening and microfiltration as alternatives to conventional treatment processes. Our ongoing Florida water treatment projects in

Process Engineering and Detailed Design

Arcadis provides a broad range of diagnostic services for plant processes, with the overall objective of evaluating a facility, process, or piece of equipment to develop the lowest-cost solutions that will adequately address insufficiencies and preclude future problems. Our plant evaluation strategy typically includes innovative approaches to result in significant improvements without the need for major equipment replacement. Our hands-on experience often enables us to provide effective, low-cost design alternatives that not only reduce capital construction costs but also allow a facility to meet more stringent regulations through operations enhancements. These operational evaluations often reveal additional capacity capabilities and can yield important information for design

OUR EXPERIENCE IN THE LAST 10 YEARS

100+
TREATMENT PLANT DESIGNS

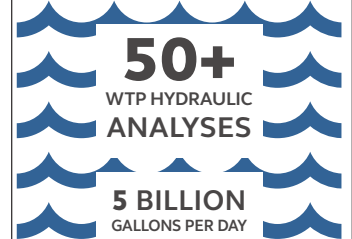


11.5 BILLION
GALLONS PER DAY



60+
LAND SURFACE WTP
MASTER PLANS &
DESIGNS

11.5 BILLION
GALLONS PER DAY



30+ WATER SYSTEM
MASTER PLANS

\$15 BILLION
IN CAPITAL INVESTMENTS

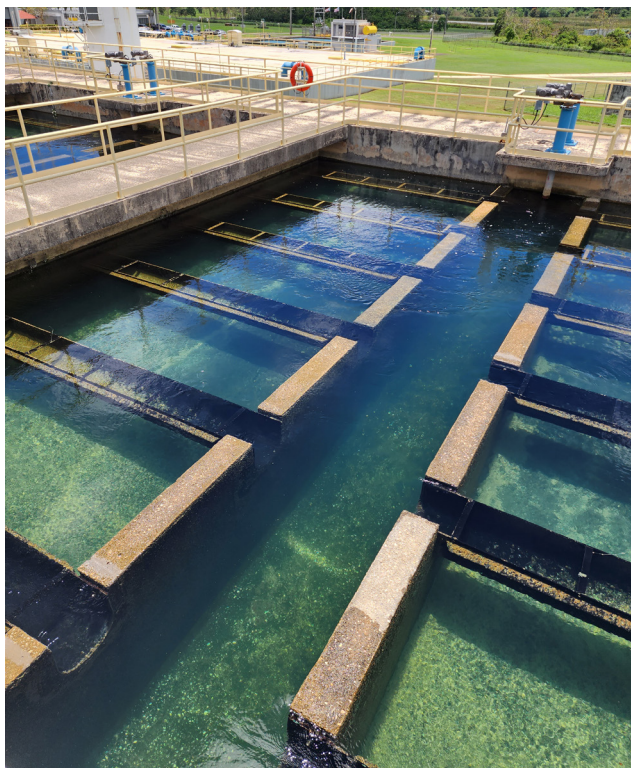


25 YEARS
OF EXPERIENCE
PROVIDING REGULATORY
**SUPPORT &
PLANNING FOR**

14+ RULES

modifications to specific unit processes, resulting in an increase of overall plant capacity.

In the past five years Arcadis has conducted more than 75 studies at treatment plants ranging in size from 0.75 mgd to 200 mgd.



Arcadis is leading the design of the rehabilitation and 25 MGD expansion of the 100 MGD Superaqueduct WTP in Puerto Rico, the single most critical potable water plant serving the San Juan Metro Region.

Plant Operations

Increased regulatory pressure and inflation have made optimizing the operation of existing facilities essential. We have licensed operators and reliability maintenance experts, like **Leslie Steves** and **Jeffrey Harvey**, on-staff who direct services including troubleshooting, equipment and operations evaluations, process training, energy supply and conservation, laboratory services, operations and maintenance, and process hazards analysis and risk management plan development.

We have experience in evaluating and solving a variety of operational problems such as hydraulic overloads, sludge bulking, solids handling issues, inadequate instrumentation and control, insufficient aeration, odors, equipment malfunctions, and clarifier short-circuiting.



Sean Chaparro, PE

Arcadis also provides biosolid management and waste disposal services. **Arcadis has some of our industry's leading experts that have envisioned and implemented biosolids management programs**

at the largest and most innovative utilities in the nation. For example, last year **Sean Chaparro** performed a detailed assessment of the City of Fort Lauderdale's Lime Softening residuals ponds to determine capacity of the ponds, and how to handle these residuals.

Water Supply and Disposal Wells

Arcadis is nationally recognized for the quality of our work in water supply and disposal wells. We provide a comprehensive range of drinking water related services encompassing water supply system master planning, performance of treatability studies involving both conventional treatment processes and innovative technologies, regulatory compliance assistance; and evaluation, design, construction administration, operations and maintenance, startup assistance, and staff training services for all types of water facilities including treatment works, reservoirs, storage tanks, transmission mains, and pumping stations. We are confident that our experience will allow us to develop cost-effective, practical facilities that emphasize operability, dependability and an ability to react to both short-term changes in water quality and long-term changes in water quality regulations.

Our staff has designed both new and upgraded facilities for hundreds of water supply systems throughout the country. We recognize the unique nature of facility upgrades and the need to keep the facilities on-line throughout the construction phase.

Water supply is an issue many municipalities face on an annual basis. Whether it is satisfying Safe Drinking Water Act requirements, meeting peak summertime demands or protecting a supply from a source of contamination, we have experience in helping municipalities find solutions to these challenges:

- Supply/Demand Forecasts
- Resource Development/Protection
- Permitting and Agency Coordination
- Ground Water Modeling

- Siting and Geohydrological Testing
- Design and Construction
- Transmission and Distribution Mains
- Sanitary Survey and MIT testing
- Water Treatment Waste Management (DIW)
- Reporting and Compliance

Our project team has specialized expertise in the areas of surface water supply, reservoirs, wellfield, water treatment, storage and pumping, development trends, and CIP planning.



The City of Hollywood Water Treatment Plant is the only source of potable water within its service area and, consequently, the high service pump station at the plant is a crucial element of the City's water system. Arcadis evaluated the current pump array, and analyzed demands and pumping capacity and prepared plans and specifications to upgrade the high service pump station – specifically replacing existing pumps and associated systems with state-of-the-art equipment to provide sufficient pumping capacity and high performance over the next 50 years.

Finished Water Pump Stations

Arcadis has designed pump stations for all types of water supply facilities. Our projects include both the design of new facilities and the rehabilitation and/or expansion of existing facilities and encompass raw water pumps for both wells and surface water supplies. In addition, many of the filtration plants that we have designed include pumping facilities - some of significant size. We have designed numerous pump stations to boost pressure in high-service zones to transport or distribute treated water to individual customers or districts, cities, and towns. We have provided expert assistance on virtually all types of pumping problems and developed solutions for problems associated with impeller wear, vibration, cavitation, and water hammer.

Storage Systems

Arcadis has provided engineering services for hundreds of water storage facilities in sizes up to 6+ billion gallons. We have evaluated, designed, and

implemented reservoirs, prestressed concrete reservoir covers, floating covers, prestressed and cast-in-place concrete tanks, elevated and ground-level steel tanks, clearwells, and treatment facilities for storage systems. All of our water distribution analyses, whether for small communities or large municipalities, address the concerns associated with water storage facilities. Our water storage evaluations encompass variables such as multiple vs. single tanks, baffling options, construction materials and coatings, construction sequencing, hydraulic balancing, capital costs, long-term operations and maintenance (O&M), climate and soil conditions, public sentiment and aesthetics. These evaluations form the basis for the design of facilities that meet peak demand and emergency service requirements at minimum cost while maintaining sensitivity to the community and environment through carefully planned architectural design.

Water Reuse

Arcadis is a leading expert in water reuse issues, having planned, permitted, designed and implemented multiple reclaimed water treatment and distribution facilities throughout the Southeast within the past decade. Overall, we have developed master plans and facility designs for more than 700 million gallons per day (MGD) of reclaimed water systems in eleven states (FL, VA, NC, NM, CT, AZ, CA, NJ, MD, and TX). In both new and upgraded facilities, we continue our involvement beyond planning, design, and construction stages to include services during startup, operation, and maintenance and process optimization.

Arcadis has also been involved with projects well ahead of the infrastructure planning/design phase by completing market analyses and studies to evaluate customer needs, regulatory drivers, current and future uses/users, the influence of technology on treatment, delivery/use, competition push back, and regional water management.

Our reclaimed water expertise includes not only feasibility studies and techno-economic evaluations but also spans into consulting services to address the challenging financial and utility pricing issues of reclaimed water projects. We have worked with utility clients all over the country to set rates that provide the most efficient cost recovery while encouraging users to become customers. Rates must make sense for each individual utility and community. Our financial services experts provide reclaimed water rate studies that consider financial planning and cost recovery strategies, long-term capital program planning needs and the evaluation of reclaimed water rates and fees.

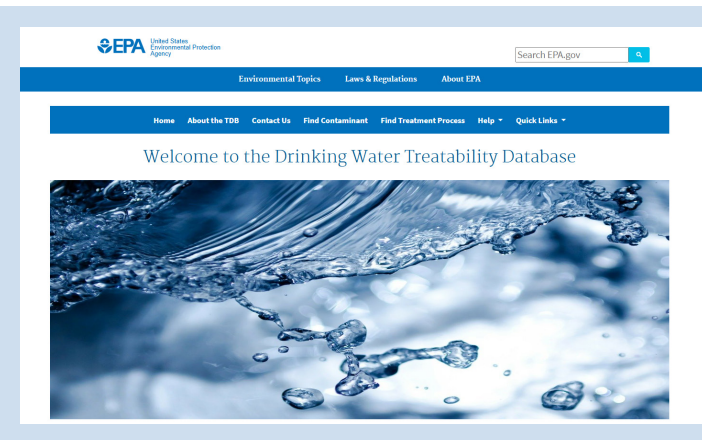
Over the past 10 years, Arcadis has completed more than 50 retrofit/upgrade projects nationwide.

Water Treatment Plant Planning & Design Experience

Client	Softening	Membranes	Chemical Systems	Hydrogen Sulfide Treatment	Water Supply Evaluation	Planning	Process Optimization	Regulatory Support	Design
City of Fort Lauderdale, FL	●				●	●	●	●	●
City of Hollywood, FL	●	●	●	●	●	●	●	●	●
City of Miramar, FL		●	●	●	●	●	●	●	●
Broward County Water and Wastewater Services, FL						●	●	●	●
City of Sunrise, FL					●		●	●	●
Miami-Dade Water and Sewer Department, FL						●		●	
St. Petersburg, FL	●		●		●	●	●	●	●
Hillsborough, FL			●		●	●	●	●	●
Pasco County, FL			●		●	●	●	●	●
Charlotte County, FL	●	●				●		●	●
City of Venice, FL		●	●	●	●	●	●	●	●
City of Tallahassee, FL			●		●	●	●	●	●
Tampa Bay Water, FL		●	●	●	●	●	●	●	●
Sarasota County, FL		●	●	●		●	●	●	●
Jackson County Utility Authority, MS		●				●		●	●
City of Sugar Land, TX		●				●		●	●
El Paso Water Utilities, TX		●				●		●	
Guadalupe Blanco River Authority, TX		●				●		●	●
Pecan Grove Municipal Utility District, TX		●				●		●	●
San Patricio Municipal Water District, TX		●				●		●	●
City of Fort Wayne, IN	●		●	●	●	●	●	●	●
City of South Bend, IN			●		●	●	●	●	●
City of Bay City, MI	●	●	●		●	●	●	●	●
City of Columbus, OH	●		●		●	●		●	●
City of Delphos, OH	●		●		●	●		●	●
City of Fairborn, OH	●	●			●	●		●	
City of Findlay, OH	●		●			●		●	●
City of Oregon, OH	●		●			●	●	●	●
City of Miamisburg, OH	●	●				●		●	●
City of Toledo, OH	●		●			●	●	●	●
Del-Co Water Company, OH	●		●			●		●	●
Greene County, OH	●	●			●	●		●	●
Wausen, OH	●					●	●	●	
Chino Basin Desalter Authority, CA		●				●		●	●
City of Santa Monica, CA		●				●		●	●
Poseidon Water, CA		●				●		●	●
San Diego County Water Authority, CA		●				●			
Saratoga County, NY		●				●		●	●

Water Reuse Experience

Client	Potable Reuse (Direct or Indirect)	By-Law & Ordinance Work	Environmental	Residential Irrigation	Public Access Reuse	Industrial Reuse	Permitting	Planning	Design	Construction Administration	Financial / Rate
City of Pompano, FL				●			●	●	●	●	
City of Coconut Creek, FL	●		●	●	●			●		●	●
City of Venice, FL				●	●		●	●	●		
City of Tallahassee, FL				●					●	●	●
City of Largo, FL				●	●		●	●	●		
Pinellas County, FL				●	●		●	●	●	●	
City of Tampa, FL					●	●	●	●			
Plant City, FL	●	●		●	●		●	●			
City of Tavares, FL				●	●	●	●	●	●	●	
Charlotte County, FL	●		●	●	●	●	●	●	●	●	
Hillsborough County, FL	●							●	●	●	
Manatee County, FL	●		●	●		●	●	●			
Polk County, FL	●		●	●		●	●	●			
City of Lakeland, FL	●		●	●		●	●	●			
El Paso Water Utility, TX	●		●	●			●	●	●		
Alexandria Renew Enterprise, VA	●		●	●	●			●			●
Loudoun Water, VA	●		●					●	●		
Dominion Resources, VA						●	●		●	●	
New Kent County, VA					●		●	●	●	●	
Washington Suburban Sanitary Commission, MD	●	●				●	●	●			●
Broomfield Reclaimed Water Master Plan, CO	●							●			
Laguna Beach County Water District, CA	●							●			
City of Surprise, AZ	●		●	●	●			●			
City of Glendale, AZ			●	●	●	●	●	●	●	●	
City of Peoria, AZ			●	●	●	●		●			
Buckskin Sanitary District, AZ			●	●	●			●	●	●	
DMB Whitetank LLC, AZ			●	●	●		●	●	●	●	
Atlantic County Utilities Authority, NJ				●	●	●		●		●	●



Arcadis developed the two initial stages of the USEPA Treatability Database (TDB). The TDB is an interactive database housed on a USEPA website that presents referenced information on the control of contaminants in drinking water. It provides users with current information on more than 30 treatment processes and over 120 regulated and unregulated contaminants, including 26 PFAS chemicals. The TDB can be used to identify effective drinking water treatment processes, to plan for future treatment plant upgrades, and to assist regulators in Best Available Technology.



Over the past several years, Arcadis has conducted more than 75 studies at treatment plants ranging in size from 0.75 mgd to 200 mgd including evaluation, design, and construction the new green field **Hamlin WRF in Orange County, FL**.

Other Areas of Expertise

Water and Reclaimed Water Transmission and Distribution Pipelines

Arcadis engineers have evaluated, designed, and provided construction administration services for a variety of pipelines for the transmission of water from supply sources to treatment plants and the distribution of water to consumers. We perform pipeline repair/rehabilitation as well as design and installation of new pipelines based on each community's existing systems and specific needs.

Types of transmission lines that our engineers have designed include open channels; covered conduits; and cast iron, ductile iron, steel, reinforced concrete, asbestos cement, polyvinyl chloride (PVC), and polyethylene pipe. Pipelines ranging in length from a few hundred feet to over 40 miles and in diameters ranging from 4 to 98 inches have been designed and installed under our direction.

We have designed distribution systems of various sizes to serve diverse community water supply customers. Our pipeline design studies have included detailed consideration of delivered capacity required, working pressure, required surge protection, air release and vacuum, allowable loss of head, pipe grade, location, soil conditions, trench bedding, depth of cover, characteristics of water, and materials of construction. We perform water distribution analyses using programs that produce solutions to hydraulic equations for head losses in any system of connected pipes with or without source pumps (parallel and series operation), booster pumps (parallel and series operation), reservoirs or tanks, minor loss devices, pressure regulators (pressure reducing valves), nozzles and check valves.

Wastewater Collection

Arcadis and its predecessor organizations have been involved in the evaluation, planning, design, and construction of collection and conveyance systems for over 100 years. Our engineers have provided these services to a wide range of municipal, industrial, and private clients, developing new or replacement systems as well as evaluating and upgrading existing systems.

Our range of services related to wastewater collection systems includes:

- Condition assessments and analysis; risk-based renewal and replacement (R&R) prioritization
- Studies of sewer systems to quantify infiltration and inflow (I/I), eliminate bypasses and increase hydraulic capacity
- Studies of separate sanitary sewer overflows (SSOs) and their impacts on water quality
- Capacity, condition, and operation and maintenance (O&M) assessments to achieve efficient and effective collection system performance
- Facility planning for the rehabilitation, upgrading, and expansion of wastewater collection systems in urban areas, or for the construction of new systems in unsewered areas
- Odor investigations and design of odor abatement programs for wastewater collection systems
- Pipeline routing studies and environmental assessments for new sewer systems
- Design, environmental monitoring, and construction phase services for new and rehabilitated trunk sewers, force mains, interceptors, and pump stations
- Development and implementation of asset management programs

Business Advisory and Utility Management

Forbes | 2024

AMERICA'S BEST MANAGEMENT CONSULTING FIRMS

Our Global Management Consulting Practice, which leads Arcadis' Business Advisory practice, is a dedicated global team of over 2,000+ consultants that provide management and advisory services globally, across multiple industries. We bring a business mindset to the asset intensive industries we serve and craft effective and sustainable solutions to improve business performance. We deliver hundreds of projects annually in Florida, for clients that include: Miami-Dade Water and Sewer Department, City of Hollywood, Tampa Bay Water, Toho Water Authority, GRU, JEA, water and sewer authorities and utilities, counties and local governments, and private industries. Arcadis is one of the preeminent Water Management Consulting firms in the country. We bring a range of consulting and technology experience to help our clients meet their strategic planning and management goals.

Digital Consulting

The digital age has seen the business world transform beyond recognition. Arcadis is leading the application of digital breakthroughs and rapidly changing complexities to help our clients harness the performance of technological shifts. We are helping our clients leverage new ways to use technology and share information, including the implementation of enterprise-wide business intelligence tools, advanced analytics, enhanced sensors, new service delivery models, and an improved user experience.

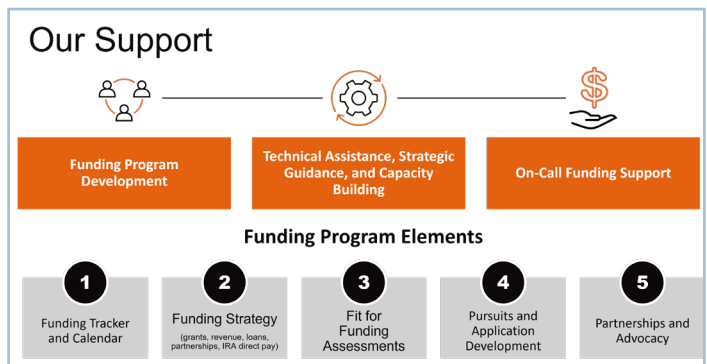
Financial Advisory and Rate Assessments

Arcadis routinely completes financial advisory engagements to support municipal utilities as part of their ongoing financial planning processes to meet revenue requirements, maintain competitive levels of service, manage debt, verify that rates and fees will meet the utility's pricing objectives, and address challenges such as affordability.

We serve as bond/consulting engineer to various utilities in Florida and across the U.S., supporting our clients meet agreements with bondholders and bond ordinances, and secure funding.

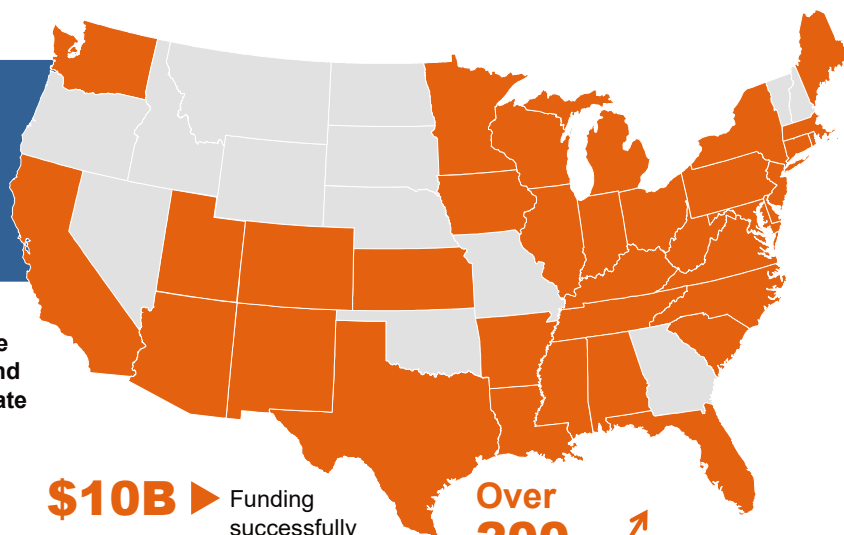
Funding and Grant Management

We offer a proactive and innovative approach to funding and grant management that ensures proper expenditure of funding. Arcadis assists our state-level clients with the management of both state and federal pass-through grant funding, as well as with the application, management, and reporting of State Revolving Fund (SRF) loans. Grant management activities include technical assistance, eligibility reviews, project reporting and monitoring, processing agreements, requests for reimbursements, maintenance of records, and project/program closeouts. Arcadis is committed to helping our clients



Our success lies in the talent of our team and the ability to strategically identify compelling projects with our clients.

Arcadis' grant writing and funding support experience spans the United States, and includes local, regional, state and federal clients.



continually improve programs and processes. We offer methods to improve efficiency and effectiveness of state-level grant programs through the development of standard operating procedures. Over the past 10 years we have secured more than \$5 billion in federal grant and programmatic funding for stormwater, water, and wastewater projects.



Arcadis assisted Miami-Dade WASD staff in developing the applications and successfully obtaining two FEMA Hazard Mitigation Program grants for necessary improvements to several critical pump stations in the system, totaling more than \$35M.

Our Funding Advisory services will be led locally by **Melissa Hew**, who is experienced in program and project management and leading multi-disciplinary teams in the areas of floodplain management, urban and coastal resilience, climate adaptation, sustainability, and environmental protection. She has extensive experience in partnership and capacity building, stakeholder engagement, and Federal Emergency Management Agency (FEMA) Hazard Mitigation Assistance (HMA) (Hazard Mitigation Grant Program/Flood Mitigation Assistance/Building Resilient Infrastructure and Communities) programs. She served as City of Miami’s resilience and community engagement subject matter expert for City’s capital projects, stormwater infrastructure and stormwater master plan.

Asset Management/Condition Assessment

Our local team offers the leadership, availability, and integrated resources necessary to deliver the professional Asset Management (AM) and Condition Assessment Planning services for the City if requested. Arcadis’ team includes specialists with extensive experience in AM programs and a strong track record of delivering successful projects for the City. We will work in close collaboration with City staff to identify long-term and more importantly sustainable solutions. Our efforts will include assessing existing and new infrastructure, supporting the prioritization of repair and replacement projects, and assisting in the planning and prioritization of new initiatives.

Arcadis leads the implementation of comprehensive asset management programs across the globe leveraging frameworks such as ISO 55000. We have extensive expertise applying asset management techniques and strategies for well over 50 municipal clients across the U.S., including some of the largest water utilities and seven utilities right here in Florida. We address all aspects of asset management, aligning business strategy with asset performance, implementing a total expenditure approach, leveraging the most advanced tools throughout the asset lifecycle, and paying strong attention to organizational change management and organizational adoption.

Our Asset Management team, led by **Celine Hyer**, recently completed a condition assessment of all the City of Hollywood’s Water system assets, WTP performance evaluations, and risk scoring for all the City’s linear assets. The team developed the risk profiles for every asset and system in the WTP including raw water wells, lime softening, membranes to pumping stations and storage tanks in the distribution system.

Industry-Leading Asset Management Practitioners

- ✓ Gap Assessment & Roadmap Development
- ✓ Condition & Risk Assessment
- ✓ CIP Development
- ✓ Long Term Funding
- ✓ Program Implementation Support
- ✓ IT Systems Selection and Implementation Support
- ✓ Training
- ✓ Change Management
- ✓ Program Management
- ✓ Research

40+  The Institute of Asset Management

IAM Certified Professionals in the U.S.

10  Endorsed Assessors

100+  AM Professionals in the U.S.

30 years  AM Water Sector Experience

90+ 

Projects/Assignments in over 20 States

90+ asset management projects in over **25** states



Subconsultants

Arcadis will serve as the prime consultant for this contract. We have assembled a team, including the following subconsultants, to bring to the City extensive knowledge about your project, as well as our expertise from our national subject matter experts.



Role: Surveying

Javier E. Bidot & Associates, PSC (JEBA) a certified SBE and MBE, is a land surveying, hydrographic, and utility mapping company. JEBA will provide topographic surveys for this contract.

JEBA's survey crews are certified or trained in OSHA 10/30hrs courses, Level I Anti-terrorism Awareness, HAZWOPER, CPR, Substations Safety Training, NASSCO's Pipeline and Manhole Assessment Certification and Subsurface Utility Certified by the Staking University. Most important of their qualifications is the individual and cumulative experience of their staff, which routinely perform on large high-profile projects that could be the highlight of any professional career.



Role: Surveying and SUE

KEITH story began over 60 years ago when they first started serving in the Broward County community. KEITH has collaborated with more than 75 municipalities throughout Florida. They provide surveying and mapping, subsurface utility engineering, planning, civil engineering, traffic engineering, landscape architecture, history preservation, construction management, and virtual design and construction management, and virtual design and construction services. **Located in the heart of Pompano Beach, KEITH has a long history of dedication to the community and proven performance on a wide range of projects for the City.**

KEITH has also used cutting edge and advanced laser scanning technologies in the design and adaptation. KEITH will provide subsurface utility engineering as needed for this contract.



Role: Geotechnical

Federal Engineering & Testing, Inc. is family owned, operated and has been in business since 1989. They are dedicated team players focused on providing quality assurance at a fair price, in a reasonable timeframe. Their diversified range of services continues to grow by following trends, improving our standard services and listening to our clients. Their unique mode of service has established their place in the geotechnical engineering and testing field.

Federal Engineering & Testing provides a complete line of Geotechnical, Construction Materials Testing, Inspections and Environmental Services to assist you in determining the proper materials, specifications and procedures to complete any construction project from the ground up. They are certified and accredited by the Construction Materials Engineering Council (CMEC), The Florida Department of Transportation (FDOT). They are also a Miami-Dade Certified Laboratory and specialize in the TAS 105, 106, 124 (Bonded or Bell), 126 (Nuclear), as well as Windload Calculations, Inspections and many other services.



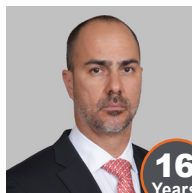
Role: Public Outreach

Dickey Consulting Services, Inc. (DSC) will provide any public outreach services which may be required for this contract. DCS organizes public involvement and public relations with various community businesses and civic groups, as well as public officials. They also provide public outreach, media relations, database management, social media marketing, for water and sewer installation and transportation projects to thoroughly inform the public during these community revitalization improvements.

On the following pages we present short biographies of our key staff. Full resumes can be found in Section 7 of this submittal.

Below are brief highlights of our key team members. For more detailed information on each team members skills and experience, see Section 7 Resumes for Key Personnel.

Key Personnel Summaries



Diego Barrios, PE | Project Manager

Mr. Barrios is a professional engineer with extensive experience managing and executing projects. A seasoned project manager, his technical expertise lies in the design and construction of membrane treatment water treatment plants and wastewater treatment plants, leveraging both traditional and design-build delivery methods to ensure efficiency and quality. With a strong technical background and leadership skills, Mr. Barrios has successfully guided numerous projects from initial concept development to final implementation, demonstrating his ability to navigate technical challenges and deliver sustainable solutions. Located just minutes from the City in our Plantation office, Mr. Barrios has served as Project Manager for several WTP/WWTP design projects for the City of Fort Lauderdale, City of Hollywood, City of Hallandale Beach, and the Miami-Dade Water and Sewer Department.



Leah Richter, PE | Principal-in-Charge

Ms. Richter currently serves as Arcadis' Southeast Florida Operations Leader and is located in the Plantation office, just minutes from the City to provide rapid response to any request. She has a diverse background in civil engineering, program management, business advisory and financial consulting services. Also, she specializes in assisting municipal clients in South Florida with managing their planning, operational and capital program needs. Her experience includes project management and delivery, vendor procurement, contract compliance, regulatory permitting, public outreach, annual reporting to bondholders/trustees, litigation support services, environmental compliance and operation and maintenance evaluation. She serves as the contract manager or Principal-in-Charge for similar contracts and projects in South Florida including with the City of Fort Lauderdale and the City of Hollywood.



Guy Le Patourel, PE, DBIA, ENV SP | Treatment Planning QA/QC

Mr. Le Patourel has 40 years of varied experience in the design and construction of water and wastewater treatment infrastructure. This has included advanced and innovative technologies including membrane filtration using microfiltration (MF), reverse osmosis (RO) and electro dialysis reversal (EDR) processes; advanced wastewater treatment such as biological nutrient removal (BNR); and treatment for emerging contaminants of concern using granular activated carbon (GAC), advanced oxidation with UV/Peroxide; and many others. His experience has encompassed the full range of project delivery methods from conventional design/bid/build, through Progressive Design Build, Construction Management at Risk (CMAR) and Public Private Partnerships (P3). Mr. Le Patourel is the Engineer of Record for the Fort Lauderdale new High Service Pump Station in the Fiveash WTP.



Michael Pilutti, PE | Membrane Technology (RO/NF)

Mr. Pilutti has 32 years of experience, including six years as the assistant director of a public water and sewer utility and 25 years as a consulting engineer. He is skilled in water treatment plant design including conventional treatment (coagulation, flocculation, clarification, filtration), design of advanced water treatment systems (micro and ultrafiltration, nanofiltration, reverse osmosis), design of chemical storage and dosing systems, clearwell storage and pumping system design, capital planning, infrastructure evaluation, condition assessments of water systems, cost estimating, commissioning and operations, and hydraulic modeling. His years of experience in public service gives him a keen awareness of the importance of meeting budget and schedule commitments and the ability to communicate with community leaders on highly technical topics. Mr. Pilutti served as the lead designer for the Miramar West Water Treatment Plant Nanofiltration upsizing project.



Amanda Berger | PFAS

Ms. Berger is Arcadis' National PFAS Practice Leader. She is a seasoned water utility professional with over 25 years of experience spanning across utility management. Known for her comprehensive approach to operations, engineering, and compliance, she has a proven record of accomplishment managing emerging and generational contaminants, such as PFAS, lead, and 1,4 dioxane across the utility sector. Her expertise includes regulatory compliance, pilot and bench testing, source and vulnerability assessments, capital planning, procurement, and residual management. Recently, Ms. Berger led the Corrosion Control Desktop evaluation for the Lead and Copper Rule Program for the City of Fort Lauderdale.

Key Personnel Summaries



24
Years

Sean Chaparro, PE | Lime Softening

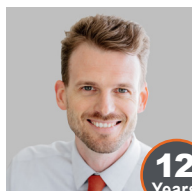
Mr. Chaparro has experience in municipal drinking water and wastewater treatment master planning, design, and special evaluations. Experience in drinking water treatment includes water softening, condition assessments, plant optimization evaluations, water quality planning, treatment process evaluations, facility planning, Safe Drinking Water Act compliance assessments, corrosion control treatment evaluations, chemical feed system evaluations, and residuals handling and disposal evaluations and design. Mr. Chaparro has extensive experience with evaluation of lime softening residual ponds including reuse of this material, and served as the Project Manager for the City of Hollywood's recently-completed Water Treatment Plant Master Plan.



35
Years

Stephanie Bishop, PE | Chemicals System

Ms. Bishop has over 35 years of relevant experience in the design and implementation of disinfection projects related to water, wastewater and combined sewer overflow (CSO) systems. She leads the Arcadis' Chemical Knowledge Team and has been involved as design leader for various chemical system projects including sodium hypochlorite, phosphoric acid, sodium hydroxide, fluoride, ammonia, sulfuric acid, orthophosphate, alum, chlorine dioxide, liquid lime, antiscalant, ferric sulfate, and ozone. Ms. Bishop is currently the lead designer for the City of Hollywood's 4-log conversion effort at their WTP.



12
Years

Kurt Kinney, PE, CPM | Reuse and Effluent Disposal

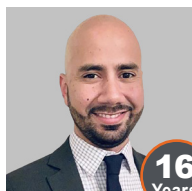
Mr. Kinney is an advocate for water reuse initiatives, playing a pivotal role as an active member of the WaterReuse Association. As a participant in both the Non-Potable Reuse and Regulatory Committees, he remains at the forefront of evaluating and advancing reuse strategies. With 12 years of experience in wastewater and water treatment design, utility master planning, construction administration, and project management, Mr. Kinney leverages his extensive expertise to support the integration of water reuse solutions in diverse projects, contributing to sustainable water management practices.



40
Years

Patricia Ramudo, PE, LEED AP | Site Civil

Ms. Ramudo brings over 40 years of expertise in the Civil Engineering field, with extensive experience in the design and implementation of hydraulic systems, and brings a long history working with the City on several notable development projects such as Mitchell Moore Park, Briny Avenue Streetscape, and Martin Luther King Boulevard. Her work spans a wide range of projects, including site development, water distribution systems, flood mitigation initiatives, and computer simulation of steady-state and transient flow for fluid transmission systems. Patricia's project involvement encompasses the full lifecycle, beginning with conceptual design and modeling, and continuing through construction and monitoring phases. Ms. Ramudo is particularly experienced in the design and rehabilitation of existing systems that are either in violation of jurisdictional codes or require modifications for upgrading.



16
Years

Jose Custodio, PE | Site Civil

Mr. Custodio is a professional engineer with a background in utilities management and design. Mr. Custodio has extensive experience working on water and wastewater projects from planning, design, procurement, and construction management on both consulting and client side. Jose's previous experience as Project Manager for the City of Fort Lauderdale and as Town Engineer for another municipality gives him first hand knowledge on Operational issues. Mr. Custodio is currently the Engineer of Record for the Miramar West Water Treatment Plant Nanofiltration Treatment Project which is increasing the capacity of the facility in 20%. He is the Principal-in-Charge for other clients in Broward, like the City of Fort Lauderdale.

Key Personnel Summaries



Gregory Osthues, PE, IAM | Asset Management

Mr. Osthues has over three decades of experience in managing and delivering utility asset management programs in support of facility and capital planning including: the development and implementation of service levels, asset inventory and condition assessment programs and operation and maintenance program evaluation and development. His experience includes the evaluation and implementation of asset management software including Decision Support Systems, Geographic Information Systems (GIS) and Computerized Maintenance Management Systems. He is certified from the Institute for Asset Management (IAM) with extensive background in the industry leading ISO 55000 and EPA/WRF Asset Management Frameworks for water and wastewater utilities.



Melissa L. Pomales, PE, ENV SP, PMP | Utility Budget and Capital Planning

Ms. Pomales is a south Florida-based licensed Professional Civil Engineer and Project Management Professional with a diverse range of experience in program and project management, asset management utility consulting and business advisory, procurement and strategic planning, feasibility analyses, funding strategies, planning, and design. She brings many years of experience working on program management for large-scale resiliency, risk, energy management, and emergency response projects in addition to managing Arcadis-led projects in the tri-county area. She has supported over \$10 billion in revenue and refunding municipal bond transactions, as well as led alternate project delivery and procurement transactions. Her work experience also includes program and project management, procurement and strategic planning, feasibility and financial analyses, and planning.

Team projects successfully completed within the past five (5) years follow.



1. Water and Wastewater Treatment Plant General Consulting Services (CCNA)

City of Hollywood | Hollywood, FL



Arcadis has been serving the City for nearly 20 years. Since 2003, multiple facilities plan updates have occurred to address the needs at the WTP. Under the General Consultant Services Contract, Arcadis provides design, evaluation, and construction support for planned and emergent needs. A few recent projects include the following:

WTP High Services Pump Station Upgrades Design and Construction Management Services

Arcadis evaluated the current pump array, and analyzed demands and pumping capacity and prepared plans and specifications to upgrade the high service pump station – specifically replacing existing pumps and associated systems with state-of-the-art equipment that provided sufficient pumping capacity and high performance over the next 50 years. The design included six equally sized horizontal split case pumps each with a capacity of 8,000 gpm at 150-ft TDH each and two 12,000 gpm backwash pumps. Arcadis also provided Construction Management and Inspection services during the construction activities.

WTP Membrane Softening (MS) Building Pilot Testing

The City currently operates seven membrane softening (MS) trains that soften Biscayne aquifer water using nanofiltration (NF) membrane elements. Each membrane array consists of a 32:16:6 3-stage array, designed to produce two million gallons per day (MGD) of permeate while operating at 90% recovery. Due to the age and performance of the system, the City had a critical need to replace the MS system to improve system reliability and to meet treatment objectives and selected Arcadis to furnish professional engineering services for the project management, preliminary design, final design, permitting, and bidding phase services for the following:

- Train C – Removal of the existing 3-stage array and replacement with a new 2-stage array with a permeate capacity of 2.0 MGD
- New Booster Pump with variable frequency drive (VFD) for the MS Skid
- New Sample Stations and instrumentation

Client

City of Hollywood

Completion Date

2003-Ongoing

Key Personnel

Diego Barrios
Guy Le Patourel
Leah Richter
Jose Custodio
Eric Battle
Inna Hely
Celine Hyer
Michael Pilutti
Sean Chaparro
Rebecca Slabaugh
Stephanie Bishop

- Associated electrical and instrumentation for new equipment
- Connection of the MS array to the existing feed, permeate, and concentrate headers including valves.
- Connection of the MS array to the existing clean in place (CIP) headers including valves.

As part of the design, Arcadis also performed a pilot testing concurrently with the design development, in order to validate model outputs for membrane selection and to optimize the performance of the replacement system. The pilot study also tested operations and fouling control without the use of acid feed to reduce future operating expenses for the plant by more than \$200,000 per year.

Four Log BODR and Design

The City selected Arcadis to complete the basis of engineering report (BODR) and the final design for the required water treatment

1. Water and Wastewater Treatment Plant General Consulting Services (CCNA), City of Hollywood -- continued.

plant (WTP) upgrades to implement the four-log disinfection. As part of this work, Arcadis completed the following services:

- Conceptual design for WTP upgrades including rehab and upgrades of chemical system upgrades
- Tank inspections for all sodium hypochlorite tanks
- Condition assessment of pumps and injectors
- Bench testing for disinfection by-products formation
- Underground utility survey
- Development of final design and construction bidding documents

WTP Filter Upgrades Evaluation

The City currently treats raw water from multiple wellfields in the Biscayne and Floridan aquifers using three major treatment processes which are lime softening (LS), membrane softening (MS), and reverse osmosis (RO). The treated water is blended, disinfected, and pumped into the service area. The LS system was originally constructed in 1967 with additional treatment capacity added in phases as WTP was expanded. Arcadis evaluated the condition of the WTP's 12 existing steel vessel filters (also referred to Automatic Valveless Gravity Filters (AVGFs) or self-backwashing filters) and assess the feasibility of replacement of the filters (in-kind) and ensuring equipment is still readily available.

AWIA Risk and Resilience Assessment (RRA) and AWIA Emergency Response Plan (ERP)

Since 9/11, the United States Federal Government, the American Water Works Association (AWWA), and water utilities across the nation have worked together to protect the approximately 153,000 public drinking water systems in the United States. America's Water Infrastructure Act of 2018 (AWIA) mandates that water systems serving over 3,300 people must conduct an assessment of the risks to, and resilience of, its water system. Arcadis assisted the City of Hollywood in carrying out the RRA to comply with AWIA requirements. The performed tasks included:

- Asset Characterization and Threat Characterization
- Consequence Analysis and Vulnerability Analysis
- Threat Likelihood Analysis
- Cyber Risk/Business Continuity and Finance Resilience Assessment
- Risk and Resilience Analysis
- Risk and Resilience Management
- Risk Assessment and Recommendations Report: Arcadis prepared draft and final risk assessment findings and recommendations summarized in the form of a report.

Following the completion of the RRA, Arcadis worked in close collaboration with the City of Hollywood to develop an ERP and comply with all requirements of AWIA. Arcadis led multiple interviews and conversations with stakeholders to develop the ERP components outlined above. Interviews were conducted to capture information relating to emergency management, operations and maintenance, procurement, public information and communications, and other key ERP elements. Arcadis worked with local emergency management agencies and engaged a large team of City of Hollywood staff across different departments to align the City's ERP with local, state, federal, and industry standards.



2. General Water and Wastewater Engineering Consulting Services (Event 50)

City of Fort Lauderdale | Fort Lauderdale, FL



Client

City of Fort Lauderdale

Completion Date

2023 - Ongoing

Key Personnel

Diego Barrios
Guy Le Patourel
Jose Custodio
Sean Chaparro
Leah Richter
Melissa Pomales
Garth White
Andrew Cooper
David Trujillo

with six (6) similar size pumps, Variable Frequency Drives, new Generators inside a new structure. The work also includes new 48" DIP suction and discharge lines inside the Fiveash WTP. A 5.0 MG ground storage tank is included to provide more storage capacity to the City. Arcadis provided planning, and is providing detailed design and permitting, Class 1 Engineer's Opinion of Probably Cost.

Lime Softening Ponds Evaluation

Fiveash WTP produces lime residuals as part of the treatment process. The solid precipitated from the treatment process is pumped to the lime sludge ponds located 3.5 miles northwest of the Fiveash WTP. The City tasked Arcadis with identifying and evaluating potential options for handling and disposing of the lime softening residuals. Given the limited remaining operational period, the City sought to explore alternative, cost effective methods for managing and disposing of the accumulated lime residuals. The evaluation included an analysis of the residuals handling, removal,

Arcadis has been serving the City of Fort Lauderdale's Utilities Division of Public Works as part of the Event 50 Water and Wastewater Consulting Services. Under this Continuing Services Contract, Arcadis provides design, evaluation, and construction support for planned and emergent needs.

A few recent projects include the following:

Fiveash WTP - High Service Pump Station Basis of Design Report

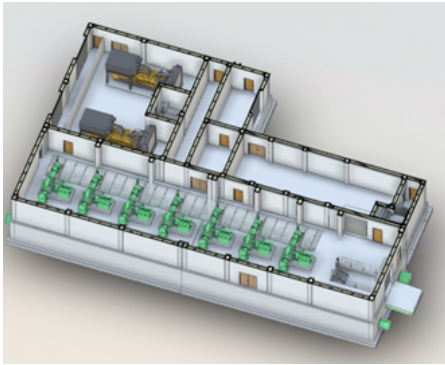
As part of the Enabling Works for the new Fort Lauderdale Clean Water Center, Arcadis developed a Basis of Design Report to provide

the City with options to either rehabilitate or replace the existing high service pump station and add a new 4MG ground storage tank at the Fiveash WTP. The selected alternative was the design of a new 50 MGD high service pump station with six (6) similar size pumps, Variable Frequency Drives, new Generators inside a new structure. Arcadis developed the Basis of Design Report and a Level 5 Engineer's Opinion of Probable Cost.

New High Service Pump Station Detailed Design

Arcadis is currently designing a new 50 MGD high service pump station

2. General Water and Wastewater Engineering Consulting Services (Event 50), City of Fort Lauderdale -- continued.



disposal alternatives, focusing on minimal capital cost. Findings from the evaluation, including estimated costs, feasibility, permitting considerations were presented in the Residual Management Plan.

48" Finished Water Line from Prospect CWC to Fiveash WTP

The City of Fort Lauderdale is currently building a new 50 MGD new water treatment plant (Prospect Clean Water Center). As part of the Enabling Works for the new WTP, a new 48" finished water line, approximately 17,500 linear feet of new pipeline along Prospect Road, connecting the new WTP to the existing Fiveash WTP was required.

In 2023, the City hired Arcadis to develop a Design Criteria Package for the selection of a Design Build Firm, in addition to providing Detailed Plan Review, Construction Management and Onsite Inspection for construction work.



Riverland Roads Water Mains Improvements

The water distribution system in the Riverland neighborhood in Fort Lauderdale consisted of approximately 13,000 linear feet of 8-inch, 6-inch, 4-inch and 2-inch water mains that exceeded their useful life, most of these installed between 1964 and 1968. In addition, the water lines on the side streets are dead ends and not looped, which resulted in water quality problems at these locations. There is also lack of fire protection coverage and pressure problems. The City hired Arcadis to provide design services for the development of a Design Criteria Package for the replacement of approximately 13,000 linear feet of water mains. The streets on the north side will be looped to allow continuous flow of water. The new water lines will be 6-inch and 8-inch to eliminate unnecessary water pressure losses to private properties, improve fire protection for the neighbors, and looped mains to improve flow rates, water quality and reduce maintenance costs. The scope included 30% design plans, cost estimates, schedule development for design and construction, identified all required permits and permitting agencies.



A-28 Triplex Pump Station Rehabilitation

In 2017, the City's Master Plan evaluated the capacity of all wastewater pump stations in the City and divided them into different groups based on capacity needs and priority for upgrades. Pump Station A-28 was identified as "Upgrade Priority 2" with limited capacity and limited redundancy.

Pump Station A-28 is a triplex sewage pumping station located on the north side of the right-of-way (ROW) on NW 12th Street, just east of NW 1st Avenue. The A-28 pumping station was built in 1974, close to the end of its useful life, and needed rehabilitation and upgrades to improve system performance, increase system efficiency, and reduce system maintenance costs associated with operations. Arcadis is responsible for the detailed design, for the removal and replacement of mechanical, electrical, and ventilation equipment, replacement of pumps, pipes, valves, suction and discharge piping, wet well/dry pit repairs and protective coatings, replacement and relocation of controls to above ground, and structural repairs.

3. Replacement and Upgrade of Nanofiltration Trains at West Water Treatment Plant

City of Miramar | Miramar, FL



Client

City of Miramar

Completion Date

Ongoing

Key Personnel

Leah Richter
Guy Le Patourel
Michael Pilutti
Jose Custodio
Eric Battle
Donnell Duncan
Inna Hely
David Trujillo

In 2023, Arcadis was selected by the City of Miramar to evaluate and design the improvements necessary to upsize the capacity of the existing nanofiltration trains from 10.15 MGD to 12.5 MGD.

The scope of work included planning, detailed design plans and technical specifications, permitting, and bidding support.

The Miramar West Water Treatment Plan (W-WTP) is permitted by the South Florida Water Management District (SFWMD) for a total raw water allocation of 13.3 MGD on an annual average day flow (AADF) basis. The annual allocation includes 10.15 MGD from the

Biscayne Aquifer. The raw water from the Biscayne aquifer is treated by the five (5) nanofiltration trains. Due to the age of these trains (1996), the City wanted to replace and upgrade the capacity of the trains at the W-WTP and achieve a permeate capacity of at least 2.5 MGD per train for 4 of the 5 trains.

In addition, to the replacement of the nanofiltration trains, the work also includes the replacement of the existing four (4) cartridge filters associated with these trains, replacement of the existing four (4) transfer pumps from the clear well to the 4MG storage tanks, a new degasifier unit, improvements

to the membranes clean-in-place (CIP) system, improvements to the chemical storage and feed systems, all interconnecting piping and valves, electrical and instrumentation and controls improvements.

Also, as part of the work, Arcadis performed detailed electrical loads and demands calculations to confirm the existing emergency generator has adequate capacity.

4. City of Hollywood Water Master Plan

City of Hollywood | Hollywood, FL



Client

City of Hollywood

Completion Date

2025

Key Personnel

Leah Richter
Sean Chaparro
Melissa Pomales
Rebecca Slabaugh
Guy Le Patourel
Celine Hyer
Lauren DaCunha
Stephanie Bishop

The City of Hollywood, FL (City) selected Arcadis to furnish professional engineering services to develop an integrated and comprehensive Water Master Plan that included all supply, treatment and distribution system assets. The City's Department of Public Utilities operates or has service agreements for approximately 22 raw water wells (e.g., 14 Biscayne Aquifer wells and eight Floridan aquifer wells).

At the WTP, the City currently treats an average 24.5 mgd through the lime softening, membrane softening, or reverse osmosis processes prior to blending, storage and pumping into the distribution system. The distribution system includes approximately 700 miles of water main piping with diameters ranging from 2-inch to 30-inch diameter that is connected to two 1.0 mg elevated tanks and a booster station, the West Hollywood Pumping and Storage Facility (WHPS).

The Water Master Plan included assessing the current condition and remaining useful life of the water system assets, the growth and needs for new assets, water quality performance with respect to current and project future regulatory requirements, and then identifying and prioritizing projects that address aging infrastructure, water quality/regulatory compliance needs, consider climate change and sea level rise, improve reliability of service, enhance operational efficiencies, and provide for process optimization.

Arcadis' water quality compliance assessment detailed the current status of treatment performance at the WTP and, more importantly, helped the City identify key treatment infrastructure improvements necessary to maintain and improve current water quality performance and make certain of compliance with recent regulations such as the

PFAS Rule and Lead and Copper Rule Revisions (LCRR). The project team conducted facility tours and reviewed water quality and operational data to identify water treatment process deficiencies and recommend capital and operational improvements.

A risk-based condition assessment approach was completed to identify rehabilitation renewal needs, which led to the development of a comprehensive CIP program. This program grouped improvements into projects and ordered them according to priority for completion.

The results of the evaluations and conceptual designs were compiled into a comprehensive 20-year, "living" Water Master Plan that allows for seamless integration into City's Assets Management system and GIS allowing the City to routinely and dynamically revisit CIP projects risks and drivers into the future.

5. As-Needed Engineering Services Contract - Water Resources Engineering

City of Tallahassee | Tallahassee, FL



Client

City of Tallahassee

Completion Date

Ongoing

Key Personnel

Sean Chaparro
Lauren DaCunha
Eric Battle
Melissa Pomales
Shantanu Dandane
Van Nguyen
Alex Spektor
Thomas Powell

Arcadis has maintained an engineering and professional consulting services contract with the City of Tallahassee (City) for more than 15 years, under which it has successfully completed a number of services for both their potable and wastewater treatment systems.

Some tasks completed under our as-needed contract include:

Water Master Plan Update and Hydraulic Modeling. Completed the City's Water Master Plan. Developed an all-pipes model (InfoWater) for the City, updated demand projections, developed and evaluated expansion alternatives to meet future growth, prepared a downtown infrastructure replacement program, and prepared a 20-year capital improvement plan to meet the City's future water needs.

Biogas Utilization and Energy Optimization Assessment.

Completed a detailed evaluation of the solids handling systems at the TPS WRF to develop a Biogas Utilization and Resource Recovery Optimization Plan for the facility.

The goal of the plan was to optimize imports of organic wastes to digesters and maximize digester gas use in a way that is operationally and economically beneficial and promotes sustainability.

TPS WRF Biogas Blower System Replacement. Design and construction administration services for a new biogas blower and moisture accumulator system at the Thomas P. Smith WRF to feed anaerobic digester methane gas to the plant's existing boiler and thermal dryer systems. Construction was successfully completed in December 2024.

BNR Blower Replacement and Blower Improvements. Detailed design of new BNR blowers and associated building improvements at the TPS WRF. The project includes structural, electrical and HVAC system upgrades for the facility.

Well 23 Rehabilitation and Treatment Alternatives Evaluation. Well 23 is a 4-mgd well that has been losing production capacity. Arcadis developed

a well rehabilitation strategy (combination of mechanical and chemical cleaning) to restore well production capacity and evaluated treatment alternatives to address iron and manganese in the local groundwater. Arcadis also provided oversight of the well rehabilitation contractor.

Testing of Iron and Manganese Sequestration Alternatives at Well 23. Arcadis developed a bench-testing plan, assisted with the development of a demonstration testing plan, and prepared a household flushing protocol to help address persistent color-related water quality issues in the northwest service area serviced by Well 23 of its distribution system resulting from premise plumbing. The testing plan evaluated a number of iron and manganese sequestration products.

6. Carlton EDR Phase 1 and 2 Upgrades

Sarasota County | Sarasota, FL



Client

Sarasota County

Completion Date

2024

Key Personnel

Sean Chaparro
Guy Le Patourel
Alex Spektor
Sam Hobi
Eric Battle
Van Nguyen

The Carlton WTP is currently Sarasota County's largest water producer with a rated capacity of 12 million gallons per day (MGD) maximum monthly average daily flow. The facility's treatment includes degasification, pressure filtration, electrodialysis reversal (EDR), disinfection, and pH adjustment.

The majority of the original EDR equipment, including the EDR stacks and major electrical systems, was placed into service in 1995 and had exceeded its life expectancy and was in need of replacement. The design team, led by Arcadis U.S., Inc. (Arcadis Team), completed the following projects associated with this facility:

- Evaluation of EDR alternative configurations
- Evaluation of associated electrical and controls equipment, a capacity analysis and physical condition assessment of the pre and post treatment systems
- Development of a PER for the process mechanical, structural, electrical, instrumentation, and HVAC design components of the various treatment systems and structures for the Phase I improvements at the Carlton WTF
- Development of detailed construction documents and implementation schedule for the process mechanical, structural, electrical and instrumentation design components of the various treatment systems and structures for the Phase I Improvements. The Phase I Improvements include replacement of 5 of the 10 existing Mk III EDR units with 5 new latest generation EDR units (Mk IV). The new EDR units have a new optimized orientation of the stacks as well as other enhancements to electrode materials and electrical drive which allow the new Mk IV units to have a higher nominal rated capacity of 1.5 MGD of treated

water compared to 1.2 MGD of the existing Mk III units

- Prepared the permit application packages and bid support
- Provided EOR services during construction and full-time CEI services for implementation of the facility upgrades based on the final design package prepared

All work by Arcadis was effectively managed using our established project management controls and processes to ensure the project was completed within budget and meeting project time constraints.

7. Hamlin Water Reclamation Facility

Orange County Utilities | Winter Garden, FL



Client

Orange County Utilities

Completion Date

2024

Key Personnel

Guy Le Patourel
Ifetayo Venner
Sean Chaparro
Lauren DaCunha
Melissa Pomales
Eric Battle
Sam Hobi
Thomas Powell

Arcadis assisted Orange County Utilities (OCU) with their new 5 MGD Hamlin Water Reclamation Facility (Hamlin WRF) for an area of Orange County that was projected to experience significant population growth with a resultant need for additional wastewater treatment capacity in the southwest region of the system. Arcadis was the engineer of record, project manager, and process technical lead for Phase I of the project. Arcadis completed a Preliminary Engineering Report (PER) that included development of a layout of the site with considerations for future components for Phase II and Phase III where flows are to be increased to 10 MGD and 15 MGD, respectively, as well as potential additional treatment components should effluent requirements become more stringent.

After the PER, Arcadis was asked to proceed with detailed design of the WRF. Arcadis led a team of more than 14 subconsultants during the design. Arcadis completed survey,

geotechnical, stormwater, and ecological investigations, as well as necessary permitting for the facility.

The following components were included in the design of the new WRF:

- 3,600 LF of 36-inch influent Force main to the WRF
- Preliminary treatment structure (headworks) with screening, grit removal and odor control
- 5-stage Bardenpho biological nutrient removal (BNR) activated sludge treatment trains
- Process aeration and blower system in a blower building
- Secondary clarifiers with scum collection system
- Return, waste activated sludge and in-plant pumping systems
- Tertiary filtration using disc filters
- Chlorine contact tank
- Effluent to storage transfer pump station

- Reclaimed water storage and distribution pump station
- Reject/non-compliant water storage and pumping
- Chemical feed systems for alum, supplemental carbon, and sodium hypochlorite
- Sludge holding tanks with odor control
- Sludge thickening
- Administration, maintenance, support, and electrical buildings
- Electrical systems, gear and emergency power generator with fuel storage system.
- Stormwater and civil infrastructure

This project was delivered under a traditional Design-Bid-Build process.

8. Pinellas County - Utilities Engineering Consulting Services

Pinellas County | Pinellas County, FL



Utilities Engineering Consulting Services Contract in 2011. Some of the task orders that Arcadis has completed to date, include:

William E. Dunn Water Reclamation Facility Headworks Modifications. Replacement of existing headworks screens and washer compactors with 3 new units including the integration of washer compactors into the new screens. Installation of a new flow splitter box that incorporates the introduction of return activated sludge at the beginning of the splitter box to allow for complete mixing and flow balancing prior to treatment trains.

William E. Dunn WRF Bypass Piping Assessment and Improvements. Rehabilitation or replacement of influent force main lines and installation of an emergency bypass pipe. Rehabilitation of 36" and 42" headworks effluent lines upstream of the treatment trains.

Lift Station 069 Odor Control.

Design and construction of an odor control system. The new biological trickling filter replaced existing equipment that had ceased operating effectively. Arcadis provided engineering design services and produced Contract Documents for the replacement system.

Lift Station 086. Design services for lift station equipment and site rehabilitation including pump replacement, new risers, pipes and valves. Rehabilitation of station structure and concrete coating. Electrical and control system upgrades and improvements to the supervisory control and data acquisition (SCADA) system.

Odor Analysis for Pump Stations 016 and 069. In depth characterization of odors at PS016 and PS069 with vapor phase sampling and analysis, including recommendations for solutions to odor issues at a large master lift station, and investigate potential odor mitigation options at PS 069.

Odor and Corrosion Study. Performed a detailed evaluation of various liquidphase odor and corrosion control treatment chemicals for use in the County's collection system and provided

Client

Pinellas County

Completion Date

Ongoing

Key Personnel

Eric Battle
Celine Hyer
Van Nguyen
Stephanie Bishop
Lauren DaCunha
Sam Hobi
Shantanu Dandane
Sean Chaparro

recommendations for optimizing treatment effectiveness.

PS 016 Odor Control System Replacement. Provided design services for the replacement of the County's chemical scrubber system at a master pumping station. Developed a detailed alternatives evaluation of various odor control technologies, including conducting field odor data and pressure sampling. Subsequent project phases to include detailed design packages and construction administration services.

9. Miami-Dade WASD Financial Consulting and Bond Engineering General Services

Miami-Dade Water and Sewer Dept. | Miami, FL



Client

Miami-Dade Water and Sewer Department (WASD)

Completion Date

Ongoing

Key Personnel

Leah Richter
Diego Barrios
Jose Custodio
Robert Ryall
James Tanner
Melissa Pomales

Arcadis and its team members have served as Miami Dade Water and Sewer Department's (WASD) Bond Consultant for nearly 10 years, providing bond consulting engineering services pursuant to WASD's Senior Bond Ordinance 93-134 (Master Bond Ordinance). A summary of Arcadis' services in accordance with the Master Bond Ordinance is provided below.

Annual Bond Engineer's Report.

Arcadis develops an Annual Bond Engineer's Report (Annual Report) in accordance with Section 607 of the Master Bond Ordinance. The purpose of the Annual Report is to assess, describe and document the following:

- The condition of one-third of the water and wastewater facilities each year.
- The operations of water and wastewater facilities.
- The adequacy of the capital improvement program.
- The adequacy of Renewal and Replacement funding.

- The Department's compliance with bond covenants relating to debt service coverage and other financial conditions.

In order to achieve these requirements, Arcadis coordinates closely with WASD executive and operations staff in order to gain access and schedule inspections of the Wastewater Treatment Plants (WWTP), Water Treatment Plants (WTP), wellfields, booster pump stations, storage facilities, and pumping stations. Physical condition data is collected utilizing a tablet-based software program, facilities inspection reports are then generated and used to develop narrative descriptions of the facilities condition. As part of the Annual Report, Arcadis also conducts detailed reviews of operational data from the WWTPs and WTPs to confirm adherence to regulatory and permit requirements, summarizes budgeted vs. actual Capital Improvement and Renewal and Replacement expenditures.

Significant deviations from budgeted and actual expenditures are highlighted. Arcadis staff then meet with WASD to collectively review and present the findings from the Annual Report.

Consulting Engineer's Report Development for the issuance of Series 2017, Series 2019a, Series 2019B and c, Series 2021, Series 2021 Subordinate, and Series 2024 revenue Bonds. Most recently, Arcadis developed the Consulting Engineer's Report (CER) to support the issuance of WASD's Series 2024 revenue bonds in the amount of \$534,420,000. Prior to that, Arcadis developed CER's for Series 2021 revenue bonds in the amount of \$605,600,000, Series 2021 Subordinate revenue bonds in the amount of \$236,135,000, Series 2019 B&C revenue bonds in the amount of \$1,211,950,000 and the Series 2019A revenue bonds in the amount of \$233,305,000.

Specific efforts associated with the development of each of these CER's included review of WASD's

10. Miami-Dade WASD Financial Consulting and Bond Engineering General Services, Miami-Dade Water and Sewer Dept. -- continued.

operations, facility physical condition, and finances. Arcadis summarized the findings from the facility inspections efforts conducted as part of the Annual Bond Engineer inspection as well as developed a five-year feasibility analysis. Arcadis also participated in meetings with rating agency staff, bond consultants and attorneys and other involved parties until the official statements were issued.

Adequacy of Rates and Fees and Renewal and Replacement Fund.

Arcadis prepares an annual financial assessment in order to provide an opinion on the adequacy of rates and charges, recommend the monthly amount to be deposited into the Renewal and Replacement (R&R) Fund, as well as approve the plan for expenditure of bond proceeds in order to keep WASD in compliance with sections 508, 605, 606 and 607 of their Master Bond Ordinance. To accomplish these efforts Arcadis conducts the following activities:

- Analyzes the Department's projected expenses and revenues for the current fiscal year with respect to budgeted amounts and recent historical experience.
- Assesses the adequacy of the rates and charges in the proposed budget for the upcoming Fiscal Year to fund all projected expenses.
- Reviews R&R reports and R&R projects planned for the upcoming Fiscal Year for consistency of planned R&R projects with current definitions for maintenance, R&R, and capital projects.
- Reviews R&R projects planned in consideration of identified R&R needs in subsequent years.

- Utilizes results of the system's condition inspections conducted as part of a separate task authorization, assess the adequacy of the R&R Fund to maintain the water and wastewater systems in good operating condition.
- Reviews the MYCIP for the upcoming fiscal year to assess the consistency of proposed expenditures with representations made by the County in applicable bond series resolutions in accordance with Section 402 of the Bond Ordinance.
- Assesses the need for the capital improvements to enable the Department to meet utility service demands and regulatory requirements.

Develops a report summarizing findings and recommendations associated with the adequacy of proposed rates and charges, recommended deposit to the R&R Fund, and approval or recommended changes of the proposed MYCIP expenditures.

Development of Wholesale Customer True-up and Rates.

In support of the annual wholesale customer true-up and rate development, Arcadis staff reviews the WASD developed wholesale customer true-up model and data to confirm the dollars owed by the Department to the wholesale customer. Arcadis then works with Department Staff to review and adjust, if necessary, the allocated costs and customer responsibilities between wholesale and local WASD system customers' actuals vs budgeted in order to develop revenues to be owed to, or recovered from, each individual WASD wholesale customer.

Arcadis then uses the information developed as part of the true-up to develop projected Water and Sewer Wholesale Customer rates for the coming Fiscal Year. Arcadis staff conducts several meetings with WASD staff to present the findings of this effort as well as discuss any questions. A report summarizing the findings of the true-up and updated rates is then developed and issued to WASD staff for review and use.

Miscellaneous Management Consulting and Valuation Services.

In addition to the requirements of the bond engineer in accordance with the Bond Ordinance, Arcadis provides other management consulting and valuation services at the request of WASD, such as development of an Asset Management Framework, Service Area Release request reviews, asset valuation and analysis of alternative funding mechanisms for varying service scenarios, detailed Retail Rate Study and Cost of Service analysis, and other miscellaneous assignments at the request of the Capital, Operations, or Finance team. Specific Miscellaneous task order in the last 5 years include:

- Workforce Housing
- New Development Infrastructure Policy
- WASD WTE Siting W/WW Cost Estimate
- Service Area Releases
- Septic to Sewer Benefits
- Sale of WASD Asset Opinion Letter
- AMI Procurement Assistance
- Extension of Service Funding Evaluation

10. As-Needed Asset Management Implementation

Toho Water Authority | Kissimmee, FL



Client

Toho Water Authority

Completion Date

Ongoing

Key Personnel

Celine Hyer
Melissa Pomales
Greg Osthues

Arcadis was selected to be the on-call asset management consultant for Toho Water Authority. The Authority provides water and sewer services for a variety of areas in Central Florida. Some of the tasks completed as a part of this contract include:

Development of a Strategic Asset Management Plan (SAMP): The SAMP included a gap analysis for Toho Water Authority to be in compliance with ISO 55000 for development of an asset management program and a roadmap for improvement. A high level review of current IT systems was included and a long term plan was put in place for the asset management program.

Collection System Asset Management Plan: Complete a comprehensive asset management plan for the existing gravity

collection system including current condition, expected useful life and long term CIP.

Generator Replacement

Evaluation: Developed a series of criteria to evaluate permanent and portable generators and determine when they should be rehabilitated or replace.

Asset Registry Updates: Several capital improvement projects had been completed within the Toho service area but the assets had not been updated within the CMMS system. Arcadis was hired to gather the asset information, verify asset attributes and then deliver the information to Toho for upload into their CMMS system.

Overflow Response Plan: A Sanitary Sewer Overflow (SSO) response plan was developed for Toho staff with the steps required

to effectively respond to an SSO and ensure compliance with all reporting requirements at both the local as state level and define reporting assignments within the organization.

Water Main Break Response Plan:

A water main break response plan was developed to help define roles and responsibilities during an after a water main break. It also defined when a boil water notice would be required and who's responsibility each task was.

Pump Station Asset Management

Plan: Developed an asset management program centered on the sanitary lift stations that serve the authority. A high level evaluation of each station was completed based on condition assessment data provided by the Authority and a long term CIP was developed.



Section 07.

Resumes of Key Personnel





Diego Barrios, PE

Project Manager

Mr. Barrios is a professional engineer with extensive experience managing and executing projects in Florida and across the United States and South America, including Chile and Venezuela. His expertise lies in the design and construction of water and wastewater treatment plants, leveraging both traditional and design-build delivery methods to ensure efficiency and quality. With a strong technical background and leadership skills, Mr. Barrios has successfully guided numerous projects from initial concept development to final implementation, demonstrating his ability to navigate technical challenges and deliver sustainable solutions.

Education/Qualifications

- BS, Mechanical Engineering
Central University of Venezuela,
2008

Years of Experience

Total – 16
With Arcadis – 1

Professional Registration/ Certifications

- Professional Engineer – TX

Professional Associations

- Florida Section of AWWA -
Technical/Education Council
Chair

Relevant Experience

Prospect Lake WTP Enabling Works, Replacement of Existing High Service Pumps at Fiveash Water Treatment Plant (WTP)

City of Fort Lauderdale, FL

Project Manager. This project includes the detailed design of the new High Service Pump Station (HSPS) and new Ground Above Grade Storage Tank (AGST). The detailed design includes 60%, 90% and 100% design, bidding support, permit applications, coordination with regulatory agencies and limited Engineer Of Record (EOR) services during construction. The delivery method will be conventional Design-Bid-Build with three separate bid documents and contracts for the HSPS, the AGST and the ASR well decommissioning.

Professional Engineering Services Related to the Hollywood WTP Maintenance Package “A” Projects

City of Hollywood, FL

Project Manager responsible for developing of Basis of Design Technical Memorandum to evaluate the replacement of media and piping of Degassifiers No. 3 and No. 4, evaluation of the conditions of the lime silos, replacement of dust collector system of the lime silos, replacement of sludge drum thickener equipment and evaluate the building conditions, replacement of valves of the Storage Tanks No. 3 and No. 4, and Clearwell Sample line replacement. After Basis of Design Technical Memorandum is completed, the design continues to 60% and 100% design levels, including permitting and bidding services.

Electrical Distribution Building

Miami-Dade Water and Sewer Department, FL

Project Engineering Manager responsible for developing of Basis of Design Report and 30% level design for the new two-story Electrical Distribution Building (35,000 feet²). As part of the design the team developed a Technical Memorandum to determine the final number of Engine-Generator based on Preston and Hialeah WTP combined energy consumption which resulted in the design of eleven (10) Caterpillar Engine-Generators Tier 4 with a rating of 2500 kW each and new electrical gear for Preston WTP.

Engine-Generator and Switchgear for Golf Grounds Pump Station

Miami-Dade Water and Sewer Department, Miami, FL

Project Engineering Manager responsible for 30% and 60% level design for the new Engine-Generator and switchgear for Golf Grounds Pump Station. As part of the design the team developed a Technical Memorandum to determine the final size of the Engine-Generator based on the loads at the pump station.

Switchgear Replacement for Hialeah Water Treatment Plant

Miami-Dade Water and Sewer Department, Miami, FL

Project Engineering Manager responsible for 30% and 60% level design for the replacement of switchgear equipment at Hialeah WTP.

Miami-Dade Clean Water Recovery Center

Florida Power & Light, Homestead, FL

Lead Mechanical Engineer. Responsible for leading the design of the RAS, WAS, Injection Well, OCE pumps and piping systems for a 15 MGD treatment plant. The project was delivered as full design-build project.

Consulting Services Related to the Water Infrastructure Risk & Resilience Assessment & Emergency Response Plan 2025 Update

City of Hollywood, FL

Project Manager. City requested Arcadis to provide professional engineering services related to the review and update of their current Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP) in compliance with requirements of the America's Water Infrastructure Act of 2018 (AWIA) (Safe Drinking Water Act [SDWA] Section 1433) 5-year recertification. The City must review and update, as needed, its RRA and recertify compliance with SDWA Section 1433 by March 31, 2025, and its ERP by September 30, 2025, to the U.S. Environmental Protection Agency (USEPA).

Construction Engineering & Inspection (CEI) Services Related to the Rehabilitation of 48-inch and 54-inch Force Main along SE 9th Avenue and SE 10th Avenue to the George T. Lohmeyer Wastewater Treatment Plant Project

City of Fort Lauderdale, FL

Project Manager. The purpose of this project is for the rehabilitation or replacement of approximately 15,150 feet of existing 48-inch and 54-inch force main complete with all tie-ins and subsequent surface restoration to existing or better conditions. This existing force main, when still active, conveyed raw wastewater from the Galleria Mall area towards the George T. Lohmeyer

Wastewater Treatment Plant (GTL WWTP). After the force main broke in December of 2019, part of this existing force main, the Tarpon River crossing section, was abandoned. As a result, the Project will also include approximately 8,220 linear feet of new 48-inch force main. Taken together the Project is a total of approximately 23,370 linear feet of new or rehabilitated pipe. This project was included originally as one of the FDEP Consent Order with the CITY and shall be completed by September 30, 2026.

Miramar West Water Treatment Plant - Nanofiltration City of Miramar, FL

Technical Specialist responsible for reviewing the design of the project. The project consisted on the replacement of 4 nanofiltration treatment trains with larger capacity, cartridge filters, cleaning in place system (CIP), transfer pumps, Degassifiers, chemical system and electrical improvements. The construction cost of the project was \$24,000,000,00.

Escondida Water Supply Project

BHP Billiton, Antofagasta, Chile

Field Engineer for the design and construction of a 70-mgd permeate water production for a copper mine. The WTP process includes an intake pump station, dual media pressure filter, cartridge filters and RO. All permeated water was pumped to the mine at 10,000 feet above seawater level and 100 miles away from the WTP. Responsible for the installation of all the underground FRP bell-spigot joint piping (diameter between 48" and 72"), all above grade butt-join FRP piping (diameter up to 48"), stainless steel 316 and super duplex piping and all PCV/CPVC piping for chemical systems. Also, lead the installation of all new Energy Recovery Device Equipment. After the completion of the project supported commissioning of the WTP.



Leah Richter, PE

Principal-in-Charge

Ms. Richter currently serves as Arcadis' Southeast Florida Operations Leader and is located in the Plantation office, just minutes from the City to provide rapid response to any request. She has a diverse background in civil engineering, program management, business advisory and financial consulting services. Also, she specializes in assisting municipal clients in South Florida with managing their planning, operational and capital program needs. Her experience includes project management and delivery, vendor procurement, contract compliance, regulatory permitting, public outreach, annual reporting to bondholders/trustees, litigation support services, environmental compliance and operation and maintenance evaluation. She serves as the contract manager or Principal-in-Charge for similar contracts and projects in South Florida.

Education/Qualifications

- MS, Civil Engineering, Florida Atlantic University, 2002
- BS, Environmental Engineering, University of Florida, 1997
- Program Management, Academy – Leading Complexity University of Oxford – Said Business School

Years of Experience

Total – 29

With Arcadis – 29

Professional Registration/ Certifications

- Professional Engineer – FL
- TRUE Advisor

Relevant Experience

Water Treatment Plant and Water System Engineering Services Contract

City of Hollywood, FL

Project officer and contract manager responsible for the full breadth of services Arcadis provides as the City's Engineer of Record for the City's water treatment plant and water distribution system. Activities and projects include numerous capital improvement design and construction projects, feasibility studies, condition assessments, asset management and master planning activities.

General Water and Wastewater Professional Engineering Services Continuing Contract

City of Fort Lauderdale, FL

Serves as contract manager for the full breadth of services Arcadis provides as the City's Professional Engineer for water and wastewater services throughout the City. Activities and projects to date have include Fiveash WTP High Service Pump Station Design, 48/54-inch Finished Water Pipeline from Prospect to Fiveash Design/ Construction Management Services, Redundant Force Main Construction Management Services, and Lime Softening Residuals Evaluation.

Miramar West Water Treatment Plant Nanofiltration Replacement

City of Miramar, FL

Project Officer for the upgrade and expansion of the existing West Water Treatment Plant. The treatment process consists of nanofiltration membrane softening for softening of Biscayne Aquifer raw water, and reverse osmosis membrane treatment for TDS removal with Floridan Aquifer as the feed water. Project elements include the removal and replacement of the cartridge filtration system, removal and replacement of the existing Nanofiltration (NF) trains with new 2.5-mgd NF trains, rehabilitation of the existing degasifiers, installation of a new degasifier, new transfer pumps, and chemical system upgrades. Because the plant is required to maintain full production during construction, novel thinking around construction sequencing and maintenance of plant operations

was required and it was decided to temporarily convert a new Reverse Osmosis (RO) train from treating Floridan raw water to treat Biscayne raw water using NF membranes.

Construction Engineering Inspection Services Contract

City of Fort Lauderdale, FL

Serves as Principal-in-Charge for the full breadth of services Arcadis provides under Construction Engineering and Inspection (CEI) Services Contract for the City, including the A-16 Pump Station (PS) replacement project. Arcadis provided full time CEI services throughout the project which consisted of replacement of the A-16 PS, as well as construction of new gravity sanitary sewer, force main, and watermain, implemented through a design-build delivery method.

Lead and Copper Rule Revision (LCRR) Compliance Program

City of Fort Lauderdale, FL

Served as project officer supporting the City through the development of a Compliance Program making sure that all requirements are met in accordance with the LCRR. Activities include the development of the initial lead service line inventory and the development of the necessary work plans for the LCRR Compliance Program that will capture the City's strategy for improved data management, public education and outreach, customer tap sampling, school/childcare facility sampling, corrosion control evaluation, and lead service line replacement.

Utilities Engineering Continuing Services Contract

City of Miramar, FL

Serves as contract manager for all our services for the City as part of our Utilities Engineering continuing services contract. Recent activities have included annual reporting for their Water Reclamation Facility deep injection wells, as required by the FDEP.

Palm Beach Renewable Energy Facility - Owner's Representative and Design Criteria

Professional Solid Waste Authority of Palm Beach County, West Palm Beach, FL

Principal-in-Charge and project manager responsible for the planning, permitting, procurement, financing, public outreach, and conceptual design for the overall implementation of the new 3,000 ton per day (tpd) mass burn waste-to-energy facility adjacent to the Authority's existing 2,000-tpd waste-to-energy facility. Key activities included development of procurement documents for the design-build-operator, development of application

documents required under the Power Plant Siting Act and Prevention of Significant Deterioration program, development of a design criteria package to be used during the procurement process, development and implementation of an extensive public outreach program, negotiation of Power Purchase Agreement, detailed design review, construction and acceptance testing monitoring, and overall program management activities to support the development of this \$672 million capital project. Construction was completed in 2015 and Arcadis served as Consulting Engineer overseeing the operations and contractual performance.

Water and Sewer Department Bond Engineering Services

Miami-Dade County, Miami, FL

Project manager responsible for WASD's rates, fee analysis and bond engineering contract. Responsible for overseeing and delivering all assignments and task orders under the multi-year contract serving WASD's executive leadership team. Projects and activities conducted to date include Asset Management Framework Development, Retail Rate Study, Mixed Use Customer Rate Analysis, Annual Review of the Adequacy of Rates and Fees, Annual Review of Wholesale Customer Rate Impacts and True Up, Annual Condition Assessment of all WASD Facilities, Development of Consulting Engineer's Reports in support of more than \$2 billion in revenue bond issuances, and miscellaneous other assignments for the varying divisions of the department.

Lift Station No. 6 Rehabilitation Engineering, Services During Construction and Post Construction Services

City of Hallandale Beach, FL

With the existing lift station structure past the end of its service life, Arcadis recommended that the station be rebuilt to meet current and future demand per client requirements. This project work included design, permitting coordination, bidding, support, and services during construction (SDC) for the rehabilitation of Lift Station No. 6.



Rebecca Slabaugh, PE, CDT

Treatment Planning QA/QC

Ms. Slabaugh brings 18 years of experience in engineering innovative solutions to distribution system water quality challenges, including disinfection and disinfection byproducts control, nitrification prevention and control, corrosion control treatment and pipe loop studies, process selection and optimization, water system master planning, regulatory compliance, and water quality monitoring. She is the current Chair of the AWWA Distribution System Water Quality Committee and a contributing author to AWWA M58: Water Quality in the Distribution System. She has provided technical and regulatory development support to AWWA, WRF, USEPA and multiple States over the past decade on a range of drinking water issues.

Education/Qualifications

- MS, Environmental Engineering, Virginia Polytechnic Institute and State University, 2007
- BS, Civil Engineering, Purdue University, 2005

Years of Experience

Total – 18

With Arcadis – 18

Professional Registrations/ Certifications

- Professional Engineer – IN
- Certified Construction Documents Technologist (CDT)

Relevant Experience

Distribution System Water Quality Audit

City of St. Petersburg, FL

Technical advisor on audit that compares the City's current practices to the AWWA G200 Standard for Distribution System Operation and Maintenance and the AWWA Partnership for Safe Water Distribution System Optimization Program to identify gaps and develop a recommended prioritized list of improvements.

Water Distribution System Optimization Plan

City of Flint, MI

Project Manager on development of a distribution system optimization plan that includes assessment of current assets, practices and human and financial resources to develop a recommended prioritized list of improvements for the City of Flint. Work included development of a chlorine residual management program (including expansion of the City's Revised Total Coliform Rule (RTCR) monitoring and development of a tool to track and analyze chlorine residual and DBP data) and standard operating procedures for routine maintenance activities and for those activities that impact water quality (e.g., repair of water mains, flushing, customer complaint tracking, water age, etc.).

Support for LCR Long-Term Revision Process

American Water Works Association, Washington, DC

Project Manager on WITAF project to provide expert technical support for the collection and analysis of data and information to inform the LCR implementation and revision development. Arcadis, part of a team led by Cornwell Engineering, led (1) an initial analysis of potential rule scenarios, including gaps, assumptions and costs and (2) compilation of lead occurrence data.

LCR Impacts and National Cost Assessment of Optimized Corrosion Control Treatment (CCT) and Unintended Consequences (WITAF #303)

American Water Works Association, Washington, DC

Assistant project manager on previous WITAF project that (1) evaluated the impacts of changing the LCR sampling pool and protocols on water systems, (2) developed a CCT framework and decision trees, and (3) prepared a national cost assessment of LCR optimized CCT provisions.

Chloramines and Nitrification Planning

Los Angeles Department of Water and Power (LADWP), Los Angeles, CA

Project manager on chloramines conversion and nitrification planning work for compliance with the Stage 2 Disinfectants and Disinfection Byproducts Rule (DBPR) including DBP regulatory compliance assessment; development of a phased chloramine conversion plan and a city-wide nitrification monitoring and control plan; and identification of strategies to address interfacing, residual loss and nitrification prevention and control.

Disinfection Integration

LADWP, Los Angeles, CA

Project manager for disinfection-related tasks including identification and evaluation of systemwide and localized strategies to reduce DBPs; developing operations, maintenance, and monitoring plans for multiple chlorine, ammonia and microfiltration facilities; and development of a disinfection integration plan to identify routine and backup operations following activation of the Los Angeles Reservoir UV disinfection plant.

Nitrification Control Support

LADWP, Los Angeles, CA

Technical advisor providing continued nitrification control support to LADWP including development of a prioritization and implementation plan to reduce nitrification in tanks through blacklights, chemical application, operational changes or mixers and updates to the nitrification control and monitoring plan.

Disinfection Alternatives Analysis

New York City Department of Environmental Protection (NYCDEP), New York, NY

Evaluated chlorine gas, delivered sodium hypochlorite, on-site generation (OSG) of dilute sodium hypochlorite, OSG of concentrated sodium hypochlorite, and OSG of chlorine gas for a new 1,300-mgd chlorine addition facility using a sustainable approach through a triple bottom line assessment. Developed concept-level designs including site layouts, capital costs opinions, O&M needs, and life cycle costs for each alternative, and evaluated potential impacts of future regulatory requirements on the design of the chlorine addition facility.

Chloramine Conversion Study

NYCDEP, New York, NY

Provided technical support for treatment study conducted to evaluate alternatives for compliance with the Stage 2 DBPR including (1) modifying system operations and (2) disinfection using chloramines, including conceptual design of a 3000-mgd chloramination facility.

Water System Evaluation, South Bend Water Works

City of South Bend, IN

Project manager on evaluation to optimize system operations as a result of declining demands. Work included demand projection estimates, calculations of theoretical capacities of all facilities, development of a life cycle cost tool, a detailed alternatives analysis considering both cost and non-cost factors, and hydraulic modeling.

Nitrification Action Plan

Guadalupe-Blanco River Authority, Seguin, TX

Technical advisor on the development of a nitrification action plan, including procedures for monitoring and responding to nitrification, and evaluation of locations and standard operating procedures for autoflushers to improve chloramine residual.

Revised Total Coliform Rule (RTCR) Sample Siting Plan

South Bend Water Works, South Bend, IN

Project manager on development of a Total Coliform Rule Site Sampling Plan to comply with the additional requirements of the RTCR, specifically addition of a sample collection schedule and identification of all sampling sites.



Guy Le Patourel, PE, DBIA, ENV SP

Treatment Planning QA/QC

Mr. Le Patourel has 40 years of varied experience in the evaluation, design, and delivery of solutions for the water, wastewater and waste management sectors. He has led detailed design for water treatment plants ranging in size from less than 1 MGD to more than 300 MGD, incorporating both conventional and advanced treatment technologies including various membrane types, advanced oxidation, ozonation, and UV disinfection. He has broad experience in a variety of alternative delivery projects, including progressive design build, fixed price design build, CMAR and EPCM.

Education/Qualifications

- BS, Civil Engineering, University of Cape Town, 1980

Years of Experience

Total – 40

Professional Registrations/ Certifications

- Professional Engineer – FL (Civil)
- Design-Build Professional
- Envision Sustainability Professional

Relevant Experience

Fiveash WTP High Service Pump Station

Fort Lauderdale, FL

Design Manager for evaluation and replacement of high service pumping for the Fiveash Water Treatment Plant (WTP). The existing facilities are over 40 years old and need upgrading to meet a peak firm pumping capacity of 70 MGD. A thorough life cycle assessment was undertaken comparing rehabilitation of the existing pump stations to the alternative of building a new station. The City elected to build a new High Service Pump Station to modern High Velocity Hurricane Zone (HVHZ) standards that provides a safe zone for operations during storm events. The new HSPS will provide for installation of 7 new pumps with associated high efficiency motors, VFD starters, electrical switchgear and modern Tier 4 standby generators. In addition, the project includes installation of a new 4 MG ground storage tank constructed using prestressed concrete together with the pipework necessary to connect to the existing two onsite tanks (5 and 7 MG).

Superaqueduct Water Treatment Plant (WTP)

PRASA, Arecibo PR

Design Manager for Rehabilitation and Upgrade of the Superaqueduct WTP serving the North Shore Aqueduct system providing water to metro San Juan Puerto Rico. This plant draws water from the Arecibo River and has conventional surface water treatment with upflow solids contact clarifiers and dual media deep bed filtration. The initial scope included major upgrades to all existing treatment areas from raw water pumping, flocculation, clarification, filtration, washwater handling, sludge management and chemical feed systems. CFD hydraulic modeling was undertaken to address existing hydraulic constraints in the clarifier basins. Additional phasing includes expansion of the facility to a 125 MGD finished water capacity by addition of four new clarifiers, four new filters and an additional chlorine contact basin.

Hollywood Water Treatment Plant (WTP)**Hollywood, FL**

Technical Lead for the design and construction supervision for maintenance repair and replacements for equipment in various areas of the operating water plant including the degasifiers, lime storage silos, sludge dewatering drum filter, storage tank valves and clearwell sample lines. Work required selecting suitable replacements that fit the constraints of the existing equipment while providing robust corrosion-resistant materials and modern controls. Staging of work to accommodate maintenance of plant operations (MOPO) was a key aspect of the design and planning.

Pump Station 5 Upgrades**Sarasota, FL**

Quality Manager for planning, design and construction stage services for expansion of the No.5 Booster Pump Station and forcemain project. Sarasota County required upgrading its core infrastructure for conveyance of treated water from the new Peace River Regional water pipeline through the existing distribution system. This required new expanded booster pumps with a firm capacity of 15 MGD and 4500 LF of new 30-inch dia transmission forcemain. Extensive short-, medium- and long-term hydraulic modeling was undertaken to develop staging plans for bypassing and boosting existing flow during construction. To meet critical scheduling constraints, the Project was completed in two phases using a Construction Manager at Risk (CMAR) delivery method.

Hollywood WTP Secondary High Service Pump Station**Hollywood, FL**

Technical Reviewer and QC of detailed design for the rehabilitation of the existing Secondary High Service Pump Station at the City of Hollywood WTP. The existing two 4,500 GPM pumps were well past their useful service life and the station piping, electrical switchgear and structural condition were all in need of repair. After upgrading the High Service Pump Station (HSPS) under another project, the City was able to reconfigure the duty for this Secondary HSPS to only require a single pump. The new layout is for one 5,000 GPM pump, with a new electrical room for switchgear and VFD, new piping and structural rehabilitation of the building.

Carlton Water Treatment Plant (WTP)**Sarasota County, Sarasota, FL**

Process Lead for the comprehensive process selection, pre-design, final design, and construction supervision for the upgrade and expansion of the Carlton electro-dialysis reversal (EDR) WTP in Sarasota County. This facility uses an advanced membrane treatment process, EDR, to remove excess salts from the brackish groundwater. The work was completed in two phases and required upgrading the existing Mark 3 EDR skids with the new Mark 4 membranes supplied by Suez (GE Water). The scope included evaluation of the pre and post treatment processes and identification of plant-wide upgrades necessary to expand capacity from existing 12 to 15 MGD.

MacCarrons WTP Upgrade**St. Paul, MN**

Owner's Advisor services for developing request for proposal (RFP) and technical requirements for Progressive Design-Build (PDB) of upgrades to the 120 MGD plant that was first constructed in the 1920s. The scope included replacement of outdated lime softening basins and slaking equipment with modern clarifiers and slakers. New redundant re-carbonation basins and provision of ozone for taste and odor control were also included in the work. The complex existing hydraulics, aging structures and very tight site added to the challenges of maintaining plant flow and quality during construction. This was the owner's first use of the PDB delivery method and extensive workshops were held to facilitate the process.

Progressive Design Build for WTP Supervisory Control and Data Acquisition (SCADA)**Ann Arbor City, Ann Arbor, MI**

Owner's Advisor services for developing RFP and technical requirements for Progressive Design Build of SCADA system upgrades. Included a review of current available industry standard contract documents for Alternative Delivery for water and wastewater projects. Developed a customized approach for City of Ann Arbor based on the DBIA standards, modified to suit City Ordinances and local requirements.



Michael Pilutti, PE

Membrane Technology (RO/NF)

Mr. Pilutti has 32 years of experience and is skilled in water treatment plant design including conventional treatment (coagulation, flocculation, clarification, filtration), design of advanced water treatment systems (micro and ultrafiltration, reverse osmosis), design of chemical storage and dosing systems, clearwell storage and pumping system design. He has extensive experience in capital planning, infrastructure evaluation, condition assessments of water systems, cost estimating, commissioning and operations, and hydraulic modeling.

Education/Qualifications

- BS, Civil Engineering
Youngstown State University,
1993

Years of Experience

Total – 32
With Arcadis – 7

Professional Registration/ Certifications

- Professional Engineer – OH

Relevant Experience

Miramar West Water Treatment Plant (WTP)

City of Miramar, FL

Lead Process Mechanical Engineer for the upgrade and expansion of the existing West Water Treatment Plant. The treatment process consists of nanofiltration membrane softening for softening of Biscayne Aquifer raw water, and reverse osmosis membrane treatment for TDS removal with Floridan Aquifer as the feed water. Post treatment includes permeate degasification, chemical injection (fluoride, sodium hypochlorite, sodium hydroxide, and corrosion inhibitor), transfer pumping, and clearwell storage. Project elements include the removal and replacement of the cartridge filtration system, removal and replacement of the existing Nanofiltration (NF) trains with new 2.5-mgd NF trains, rehabilitation of the existing degasifiers, installation of a new degasifier, new transfer pumps, and chemical system upgrades. Because the plant is required to maintain full production during construction, novel thinking around construction sequencing and maintenance of plant operations was required and it was decided to temporarily convert a new Reverse Osmosis (RO) train from treating Floridan raw water to treat Biscayne raw water using NF membranes.

Nanofiltration System Design and Pilot Study

Hollywood, FL

Lead process engineer responsible for the design and operation of a membrane pilot study to evaluate full-scale design criteria for the replacement of the existing 14-MGD nanofiltration membrane treatment system at the existing Hollywood WTP. Developed design criteria for the system replacement and prepared a preliminary design report. Evaluated various antiscalants for simultaneous use in the NF and RO system to allow for discontinuation of the sulfuric acid storage and dosing system, saving approximately \$200,000 per year.

criteria. Prepared final design documents for a GAC filtration facility including pumping systems, GAC filters and chlorine disinfection system.

Sydney Desalination Plant

Sydney Water, Sydney, NSW, AU

Process design engineer responsible for the detailed mechanical and process design of the 67 MGD Sydney seawater desalination plant. Primary responsibilities included detailed design of a seawater pump station, all chemical feed systems, pretreatment system, reverse osmosis system and wastewater treatment system. Provided assistance with equipment procurement, analyzed vendor proposals to verify conformity with established design, worked with construction staff to review and resolve constructability issues, and collaborated with operation and maintenance staff to develop and optimize the plant design. Selected materials of construction for the bulk of the plant systems for corrosion resistance and durability.

Lancaster North WTP Design

City of Lancaster, OH

Lead process mechanical engineer for a new 8 MGD Water Treatment Plant. Project includes gravity filtration consisting of dual media for Fe and Mn removal, cartridge filtration for particulate removal to reduce membrane fouling and 2-stage RO arrays using nanofiltration membranes for TDS and hardness reduction.

South Wellfield and Water Treatment Plant

Lancaster Division of Water, Lancaster, OH

Lead process engineer for the design and operation of two nanofiltration membrane pilot studies and design of an 8 MGD nanofiltration membrane treatment facility for the South wellfield and treatment facility. Directed the design of facilities including raw water pumps; manganese greensand pressure filtration; cartridge filtration; reverse osmosis; degasification; clearwell storage; high-service pumping; and new chemical storage and dosing systems including gas chlorine, sodium permanganate, sulfuric acid, caustic soda, scale inhibitor and corrosion inhibitor.

Northwest Regional Water System Master Plan and Model Update

Greene County, Greene County, OH

Lead process mechanical Engineer for the design of improvements to increase the capacity of the NRWTP from 10.5 to 12 MGD, and the integration of RO into the

plant for softening. Directed a pilot study to evaluate the efficacy of RO and develop full-scale design criteria.

Home Road Water Plant Design

City of Columbus, OH

Lead process mechanical engineer for the design new gravity filters and post-treatment chemical systems for a new, 48-MGD surface water treatment plant. Filter design consists of 12 dual-media filter cells using granular activated carbon, sand, and low-profile, media retaining underdrains. Chemical systems include sodium hypochlorite, hydrofluosilicic acid, zinc orthophosphate, and filter aid polymer.

Cornish Creek Water Treatment Plant Upgrade and Expansion

Newton County, GA

Lead process mechanical engineer for the design of new unit treatment processes to expand the existing water treatment plant from 25 to 39.5 MGD. Conducted a pilot study to evaluate ozonation, conventional treatment (coagulation, flocculation, sedimentation, and gravity filtration), and submerged membrane filtration. Prepared an alternatives analysis report detailing the design criteria for each of the proposed treatment systems and prepared final design documents for the proposed facilities.

Claremont Water Treatment Plant Upgrades

Timaru District Council, Timaru, NZ

Lead process engineer responsible for developing alternatives for the upgrade of the Claremont Water Treatment Plant. Evaluated alternatives for upgrading the finished water storage system including rehabilitation and replacement alternatives and inclusion of membrane treatment to improve finished water quality.

Pohara Water Treatment Plant Upgrades

Tasman District Council, Pohara, NZ

Lead process engineer responsible for developing alternatives for the upgrade of the Pohara Water Treatment Plant. Evaluated alternatives for upgrading the direct filtration plant by replacing the sand filtration system with MF/UF filtration for pathogen removal and turbidity reduction. Developed preliminary design information and evaluated vendor proposals for conformance with project requirements.



Amanda Berger

PFAS

Ms. Berger is Arcadis's National PFAS Practice Leader. She is a seasoned water utility professional with over 25 years of experience spanning across utility management. Known for her comprehensive approach to operations, engineering, and compliance, she has a proven record of accomplishment managing emerging and generational contaminants, such as PFAS, lead, and 1,4 dioxane across the utility sector. Her expertise includes regulatory compliance, pilot and bench testing, source and vulnerability assessments, capital planning, procurement, and residual management.

Education/Qualifications

- Environmental Science & Biology, University of Wisconsin-Oshkosh, 2010
- Chemical Engineering, Tennessee Technological University, 1998

Years of Experience

Total – 26

With Arcadis – 2

Professional Registration/Certifications

- Construction Document Technologist (CDT)
- American Water Works Association (AWWA)
- Society of Women Engineers (SWE)
- Water Environment Federation (WEF)

Operator License

Former TN Grade IV Water Operator; Former TN Grade II Distribution Operator; Former WI Grade IV Wastewater Operator; Former NC Grade I Collections Operator

Recent Presentations:

- NACWA – Strategies for Addressing PFAS in Biosolids
- VMDWA & FSAWWA – PFAS-Roadmap to Compliance
- PRW&EA – Scenarios for PFAS Destruction at Municipal WTPs

Relevant Experience

Lead and Copper Rule Revision Implementation

Fort Lauderdale, FL

Technical expert on desktop CCT evaluation of current CCT practices and planning analysis for a future water treatment plan. Study includes an extensive evaluation of current sampling protocols, locations, and distribution data to determine future steps to achieve compliance with U.S. EPA LCRR and LCRI.

Emerging Contaminant Technical Assistance Program

State of Utah Division of Drinking Water (DDW)

Technical expert and project manager for the DDW emerging contaminant technical assistance program assisting small utilities throughout UT to address PFAS and other emerging contaminants. Project includes sampling, source evaluation, hydrogeological evaluations, treatment assessment, preliminary design, and funding application assistance. Treatment assessments include benchtop and piloting technologies that range across water treatment solutions, including GAC, PAC, IX, and membranes.

PFAS Sludge Quality Certification (SQC) Peer Review

New Hampshire Department of Environmental Services (NHDES)

Technical expert for peer review of the NHDES groundwater leaching study to evaluate biosolids PFAS regulations under their SQC program. Project includes providing peer review of conceptual and final groundwater leaching models.

Emerging Contaminant Planning Program – Biosolids Processing Improvements

Confidential Client

Technical advisor for contaminants of emerging concern (CEC) program focused on evaluation solutions for CECs, to include PFAS. Responsibilities include identifying and assessing treatment technologies, facilitating and potentially leading pilot studies, and supporting regulatory evaluations to guide a utility and its stakeholders in developing effective compliant solutions for CECs that maintain land application and composting facility. Additional scope includes updating the biosolids master plan and producing an energy flow model.

Reidsville 1,4 Dioxane Treatment Alternatives

Reidsville, NC

Technical Advisor for evaluating treatment alternatives for management of 1,4 dioxane. Treatment evaluations included ozone/peroxide, microfiltration (MF) + ultraviolet (UV)/peroxide, MF + UV/chlorine, and MF + reverse osmosis+ UV AOP. Final deliverable included conceptual costs and regulatory advisement.

Greensboro 1,4 Dioxane Treatment Alternatives

Greensboro, NC

Technical Advisor for evaluating treatment alternatives for management of 1,4 dioxane. Treatment evaluations included ozone/peroxide, microfiltration (MF) + ultraviolet (UV)/peroxide, MF + UV/chlorine, and MF + reverse osmosis+ UV AOP. Final deliverable included conceptual costs and regulatory advisement.

Service Line Inventory Development & Funding Support

Aqua Illinois, Inc., Kankakee, IL

Technical expert for service line inventory investigation that includes digitization of utility records and ongoing

Corrosion Control Treatment Evaluation

Private Industry, Puerto Rico

Technical expert for CCT evaluation to address copper corrosion in pharmaceutical facility. Project included identification of copper sources and supporting data, treatment technique evaluation for the potable water supply, and evaluation of wastewater treatment facility operations and loading to achieve compliance with National Pollutant Discharge Elimination System (NPDES) permit limits.

Lead and Copper Rule Revision – Service Line Inventory Development

Prince William County Service Authority, Prince William County, VA

Technical expert for service line inventory investigation that includes developing initial service line inventory, application, and approval of Virginia Department of Health (VDH) statistical methods, field service line investigations, and the development of communication and public outreach materials.

Reclaimed Water Regulations and Master Plan

Brunswick County, NC

Technical expert and project manager to develop reclaimed water ordinances, specifications and master plan to support the expansion of reclaimed water system.

support for lead SLI. Support and development of required Illinois Environmental Protection Agency (IEPA) SRF application process to include evaluation of existing inventory, permitting requirements, and planning level activities.

Lead and Copper Rule Revision Implementation

Philadelphia Water Department, PA

Deputy project manager for a comprehensive plan to achieve compliance with LCRR and LCRI. Project includes regulatory review, communications, database development, service line inventory, lead service line replacement, communications plan. Technical expert for CCT study that includes optimization of existing CCT strategy through multi-year pipe rig study.

Corrosion Control Assistance

New Kent Public Utilities, VA

Technical expert on a corrosion control treatment (CCT) desktop study for an eventual source water change. The study includes evaluating existing sources, future water treatment plant source, and purchase water to determine appropriate steps to achieve compliance with LCRR.

Additional Relevant Experience

Director, Environmental Compliance

Director of Environmental Compliance for a privately owned utility that owned and operated over 750 public water supplies and 75 wastewater facilities. Performed PFAS monitoring study for over 1,600 groundwater wells within North Carolina and responsibility for the development of short and long-term capital improvement plan(s), pilot projects, and treatment evaluations to address PFAS contamination. Instituted compliance monitoring software for tracking compliance with the Safe Drinking Water Act (SDWA) and Clean Water Act (CWA) across the utility's footprint. Responsible for all USEPA compliance requirements, database implementation and management, communications initiatives, budget, and compliance rate defense.



Sean Chaparro, PE

Lime Softening

Mr. Chaparro has experience in municipal drinking water and wastewater treatment master planning, design, and special evaluations. Experience in drinking water treatment includes water softening, condition assessments, plant optimization evaluations, water quality planning, treatment process evaluations, facility planning, Safe Drinking Water Act compliance assessments, corrosion control treatment evaluations, chemical feed system evaluations, and residuals handling and disposal evaluations and design.

Education/Qualifications

- MS, Environmental Engineering, University of Wisconsin-Madison, 2002
- BS, Environmental Engineering, Michigan Technological University, 2000

Years of Experience

Total – 24

With Arcadis – 23

Professional Registrations/ Certifications

- Professional Engineer – FL, GA, MI

Relevant Experience

City of Hollywood: Water Master Plan

City of Hollywood, Hollywood, FL

Project manager and technical lead for the 2024 City of Hollywood Comprehensive Water Master Plan. The Hollywood WTP includes lime softening and membrane softening for treatment of the Biscayne Aquifer source of supply along with RO treatment for the Floridan Aquifer source of supply. The project included a detailed assessment of the City's 41 MGD WTP including a detailed risk-based assessment of the supply, treatment and distribution systems (including hydraulic modeling) to identify improvements required to meet capacity, redundancy, regulatory and water quality needs, and to provide for the rehabilitation or replacement of equipment. Identified projects were prioritized based on risk and distributed over a 20-year planning period.

Five Ash WTP Lime Softening Residual Ponds Assessment

City of Fort Lauderdale, FL

Technical Lead, responsible for the evaluation of the two ponds in the Prospect Lake site that receive lime softening residuals from the existing Fiveash WTP. The work included capacity evaluation (current and remaining) of the ponds, characterization of the material, and evaluation of different alternatives for the removal of the material including reuse. Each alternative was evaluated based on risks to the environment, to the City and costs associated with each.

Water Quality Audit

City of St. Petersburg, St. Petersburg, FL

Project manager and process lead for a detailed assessment of the City's potable water system water quality performance which was benchmarked to AWWA Partnership for Safewater guidelines and recommendations. The City's potable water system includes the Cosme lime softening WTP, approximately 24 miles of finished water main that feed two booster pump stations and approximately 1,500 miles of distribution piping. Distribution system water quality performance was compared against industry standards and best management practices to identify areas of improvement to further optimize treatment and distribution system water quality.

Infrastructure Rehabilitation and Compliance Needs Assessment

Bay City, Bay City, MI

Completed a comprehensive Infrastructure Rehabilitation and SDWA Compliance Needs Assessment, which identified capital improvement projects necessary to keep pace with increasingly stringent water quality requirements. The Bay City Municipal WTP is a 40 MGD lime softening plant.

Collins Park WTP Capital Improvement Projects Master Plan

City of Toledo, Toledo, OH

Technical Lead for the regulatory, water quality, treatment process, condition and plant optimization assessments completed as part of the development of a comprehensive water master plan and 20-year needs assessment for the City of Toledo's 120-mgd lime softening Collins Park WTP. The project included inspecting, evaluating, and assessing the suitability and condition of the city's source of supply and WTP to identify system deficiencies, equipment deterioration, operational constraints, and process issues related to compliance with long-term water quality goals and regulatory requirements. A detailed optimization assessment was completed to identify "low-hanging fruit" that could help the city improve treatment performance and/or reduce operating costs.

20-Year Water Master Plan

City of Venice, Venice, FL

Project Manager and technical lead for a comprehensive water master plan and 20-year capital improvements program for the 4.2-mgd reverse osmosis (RO) WTP. The project included a detailed assessment of raw water supply, treatment, pumping, and distribution system needs (including hydraulic modeling) and improvements to meet future growth projections, address redundancy needs, meet increasingly stringent regulatory requirements, and to provide for the rehabilitation or replacement of equipment.

2020 Water Master Plan Update

City of Tallahassee, Tallahassee, FL

Project Manager responsible for the update of the City's water master plan. The project included updating the system hydraulic model, including customer demands, demand patterns, and model calibration; updating demand projections; developing future water model scenarios for a 20-year planning horizon; evaluating future water supply alternatives and production and

storage facilities; and operational and capital improvement alternatives.

WTP Audit and Facilities Master Plan

Greater Cincinnati Waterworks (GCWW), Cincinnati, OH

Developed situational audits for on-site residuals management and disposal options for each of GCWW's WTPs, which include a 220-mgd surface WTP and a 40-mgd lime softening groundwater treatment plant. The situational audits provided a review of on-site residuals management and disposal practices as they relate to present and future regulatory requirements, and/or constraints which have the potential to impact treatment operations and maintenance at each of these plants.

Distribution System Water Quality Audit

Hillsborough County, Public Utilities Dept, Tampa, FL

Project manager and process lead for a detailed assessment of the County's distribution system water quality performance which was benchmarked to AWWA Partnership for Safewater guidelines and recommendations. Distribution system water quality performance was compared against industry standards and best management practices to identify areas of improvement to further optimize distribution system water quality.

Carrollton & Algiers WTPs Water Quality Master Plans

Sewerage and Water Board of New Orleans, New Orleans, LA

Technical Lead for the water quality, regulatory compliance, and treatment process assessments for the development of a comprehensive water quality master plan and 20-year capital improvement program for the City's Carrollton (144-mgd avg. flow) and Algiers (12-mgd avg/. flow) WTPs. The project included a detailed assessment of all process mechanical equipment, systems, and treatment performance with respect to water quality goals and key regulatory requirements.

Water/Wastewater Infrastructure Master Plan and Comprehensive Energy Management Program

Puerto Rico Aqueduct and Sewer Authority, San Juan, PR

Planning Specialist for the development of a comprehensive Infrastructure and Compliance Master Plan and 20-year CIP for all the water and wastewater systems in Puerto Rico. The assessment included (1) evaluating current operating and treatment practices and needs, (2) identifying potential service area expansion and system optimization/ consolidation opportunities, (3) identifying opportunities to improve reliability of service. Multiple types of water and wastewater treatment systems were assessed, including groundwater, conventional, package, and membrane systems for water treatment; and primary, secondary, and advanced treatment facilities for wastewater treatment.



Stephanie Bishop, PE

Chemicals System

Ms. Bishop has over 35 years of relevant experience in the design and implementation of disinfection projects related to water, wastewater and combined sewer overflow (CSO) systems. She leads the Arcadis' Chemical Knowledge Team and has been involved as design leader for various chemical system projects including sodium hypochlorite, phosphoric acid, sodium hydroxide, fluoride, ammonia, sulfuric acid, orthophosphate, alum, chlorine dioxide, liquid lime, antiscalant, ferric sulfate, and ozone.

Education/Qualifications

- BS, Environmental Engineering, University of Central Florida, 1988

Years of Experience

Total – 35
With Arcadis – 31

Professional Registration/ Certifications

- Professional Engineer – FL

Relevant Experience

Four-Log Virus Treatment Implementation

City of Hollywood Public Utilities Department, Hollywood, FL

Design Lead for converting from 0.8% to 12% sodium hypochlorite to achieve 4-log virus inactivation. Design includes replacing sodium hypochlorite feed systems and the existing anhydrous ammonia storage and feed system and injection point modifications.

Northwest Regional WRF Expansion

Hillsborough Co. Public Utilities Dept., Tampa, FL

Design Leader for preliminary design of sodium hypochlorite and sodium bisulfite systems.

Country Club WTP Design

Seminole County Environmental Services Department, Seminole County, FL

Design Leader for the Country Club WTP upgrades that included sodium hypochlorite and fluoride systems, transfer pumps, and an ozone system for removal of hydrogen sulfide in raw water.

Oberly Pumping Station Chemical Injection

City of St. Petersburg Public Utilities Department, St. Petersburg, FL

Design Leader for the new sodium hypochlorite, liquid ammonium sulfate and sodium hydroxide storage and feed systems needed to boost disinfectant residual levels, minimize the potential for nitrification and optimize distribution system pH.

Richland Creek WTP

Paulding County Water System, Dallas, GA

Design Lead for chemical systems for a new 18-mgd WTP, including sodium hypochlorite (diluted to 6%), fluoride, chlorine dioxide, aluminum sulfate, polymer and liquid lime.

Western Filter Plant Hypochlorite Conversion

Birmingham Water Works Board (BWWB),
Birmingham, AL

Project Engineer for design of a conversion from chlorine gas to sodium hypochlorite as a primary disinfectant for a WTP.

Kokomo Water Treatment Facility Improvements

Indiana-American Water Company, Inc., Kokomo, IN

Design Lead for sodium hypochlorite storage and feed system at the 17-mgd plant to replace gas chlorination. Multiple injection points included the use of neat fed chemical and also softened carrier water.

Business Case Evaluation for Quarles WTP Disinfection System

Cobb County Marietta Water Authority, Marietta, GA

Technical Advisor for a comparison of disinfection alternatives for the Quarles WTP to replace the existing on-site sodium hypochlorite generation system. The main alternatives considered were bulk sodium hypochlorite, on-site sodium hypochlorite, ozone and UV light.

On-Site Sodium Hypo Generation Systems Design and Construction

San Antonio Water System (SAWS), San Antonio, TX

Technical Advisor for the replacement of the chlorine gas system at three water production facilities with on-site generation of sodium hypochlorite for disinfection. The facility capacities are 72, 37 and 90-mgd. Each system includes two on-site generators, one brine tank, two-day tanks and peristaltic metering pumps

Western Filter Plant – Sodium Hypochlorite Conversion and Chemical Building MCC Replacement Design and Bidding Assistance

BWWB, Birmingham, AL

Design Leader for the new sodium hypochlorite, storage and feed system to replace the gas chlorine system for disinfection. The new chemical facility will be climate controlled building which will hold at least a 14-day supply of sodium hypochlorite. Design flow is 60-mgd with an average flow of 33-mgd.

Water Production Facilities Disinfection Systems Upgrades Phase III

SAWS, San Antonio, TX

Technical Advisor for the replacement of chlorine gas systems at the Micron and Seale Pump Stations with on-site generation of sodium hypochlorite for disinfection

and replacement of existing fluoride systems. The facility capacities are 38 and 20-mgd respectively.

Ogden Dunes WTP Chlorine Conversion Design

Indiana-American Water Company, Ogden Dunes, IN

Design Lead for design/build of new storage and feed systems for sodium hypochlorite and liquid ammonium sulfate at a 24-mgd plant to replace chlorine gas and aqueous ammonia.

Preliminary Engineering – Disinfection Improvements Water Reclamation Facilities (WRF)

Milwaukee Metropolitan Sewerage District (MMSD),
Milwaukee, WI

Sodium hypochlorite/chlorination lead for the evaluation and screening of disinfection technologies for the 330-mgd Jones Island and 300-mgd South Shore WRFs to address future WPDES permit limits for E.coli. The evaluation compared the existing sodium hypochlorite disinfection system to disinfection technologies, such as, ultraviolet (UV) disinfection, chloramination, peracetic acid, chlorine dioxide, advanced oxidation, and a combination of technologies. The project included a condition assessment of existing disinfection facilities at both WRFs, bench and pilot testing, chemical and electrical price sensitivity analysis based on anticipated trends and supply chain issues, life-cycle cost analysis, reliability and sustainability evaluations, analysis of critical construction related activities, constructability, sequencing, and scheduling.

Low Lift, High Lift, Wash Water Pumping Improvements, Electrical Improvements, and Miscellaneous Chemical Improvements

Great Lakes Water Authority, Detroit, MI

Design leader for the condition assessment and conceptual design of a phosphoric acid storage and feed system for the Lake Huron Water Treatment Plant (WTP) (380-mgd) that included stainless steel bulk and day tanks and diaphragm metering pumps.

Disinfection Process Improvements

MMSD, Milwaukee, WI

Lead for chlor/dechlor and on-site generation disinfection alternatives considered for two WRFs - South Shore WRF and Jones Island WRF. The preliminary design work included business case evaluations, sustainability analysis, supply chain resilience analysis and cost escalation sensitivity analysis. The project evaluated different disinfection technologies and different operating strategies to meet future permit limits that require using E.coli as the final indicator organism.



Martha Wulftange, PG

Supply Wells and Groundwater

Ms. Wulftange has over 27 years of experience in hydrogeologic investigation activities, permitting, and regulatory compliance. She has conducted well field investigations, geological investigations, hydrologic studies, and supported regulatory compliance for drinking water, wastewater, and stormwater systems. She has developed groundwater protection plans to provide an assessment of the potential threats to the groundwater supply and provide recommendations for protecting resources. She has also supported condition assessments including infiltration and inflow evaluations.

Education/Qualifications

- MS, Hydrogeology, Colorado School of Mines, 2017
- BS, Geology, University of California, Santa Barbara, 1998

Years of Experience

Total – 27

With Arcadis – 6

Professional Registration/Certifications

- 40-hour Hazwoper - OSHA
- Professional Geologist – CA, FL

Relevant Experience

Carlton Well Field Assessment and Well Installation

Sarasota County, FL

Senior geologist for development of specifications for oversight for abandonment and construction for monitoring wells at the Carlton Memorial Reserve Well Field; construction oversight of the abandonment and installation of the wells; and a system-wide assessment of Sarasota County's well field monitoring wells and development of infrastructure improvements recommendations. The findings of the assessment were summarized in a report and provided recommendations to address well conditions.

Venice Gardens Monitoring Well Modification/ Installation (2025)

Sarasota County, FL

Senior geologist for the abandonment of a monitoring well and installation of a replacement well. Tasks included complete design, permitting, bid phase services, and construction phase services.

Class I Injection Well at the Water Treatment Plant Permit Renewal (2022)

City of Hollywood, FL

Project geologist who prepared permit renewal application for the City's Florida Department of Environmental Protection Underground Injection Control permit. Support also includes providing oversight and technical guidance for planning, executing, and reporting for Mechanical Integrity Testing (MIT) of a Class I injection well located at Water Treatment Facility, City of Hollywood, FL. Per UIC permit, MIT required to be performed every 5 years and included geophysical logging, video survey, radioactive tracer survey, and pressure testing. Directed development of testing plan and specifications. Work to be completed includes coordination with county officials and drilling contractor, guiding field implementation, evaluation of test results, and oversight of documentation/reporting per Florida Department of Environmental Protection (FDEP) requirements.

Orlando Utilities CUP Permit (2020)

Orlando Utilities Commission, FL

Project geologist that supported groundwater modeling analysis that was conducted for the Orlando Utility Commission's renewal of their current consumptive use permit (CUP). The analysis included an analysis of the presently existing legal uses of water and a review of potential migration of impacted groundwater from contaminated areas. Available data and reports were reviewed from the FDEP Geospatial Data Portal and the Florida's Water Permitting Tool Portal.

Nellis Air Force Base Optimized Remediation Contract (In Progress)

US Army Corps of Engineers - Los Angeles District, NV

Senior geologist for on-going site remediation activities for two sites at Nellis Air Force Base. Oversight has included coordinating monitoring programs and reporting for activities at the sites at Nellis AFB. During the contract period, have achieved approval for closure of one site. Milestones achieved for the second site have included approval by the regulatory agency of the site record of decision and remedial design and remedial action (RD/RA) plan, and implementation of the RD/RA which included installation of 8 injection wells and implementation of injection plan.

Westland – Golden Queen Mine ROWD Update

Westland Resources, Inc., Mojave, CA

Updated the hydrogeologic study for the Soledad Mountain Project located near Mojave, California. The study presented a summary of the regional and local hydrogeology that had been documented as part of previous investigations and provided updates for new groundwater information, as appropriate, including the current understanding of groundwater flow and chemistry in the vicinity of the Project. This Study was completed as part of a comprehensive Record on Waste Discharge for the permitting process.

2020 Humble Hydril Site Remediation

Baker Hughes, Inc., Raleigh, NC

Evaluated plume stability to support updates to the conceptual site model (CSM). A quantitative analysis was completed (using Surfer) to generate plume maps, analyze center of mass, and calculate mass discharge. The evaluation was used to support the risk-based remedial approach.

Water Rights Data Retention and Groundwater Availability Studies

Vandenberg Air Force Base, CA

Managed a series of projects to assist Vandenberg AFB in the assessment of groundwater availability from the San Antonio Groundwater Aquifer. Stakeholders included the Air Force, the County of Santa Barbara, and members from the local community. The projects were initiated to meet the Air Force directive for bases to undertake source water studies. Scope of work included a historical water balance and a groundwater model for the San Antonio Groundwater Aquifer. Additionally, an index of water rights documents was developed pursuant to the Air Force's Water Rights Documentation and Data Retention Policy which directs bases to research, evaluate, derive, and compile pertinent documentation regarding water rights for the installations.

Development of Groundwater and Wellhead Protection Plan

Santa Ynez Chumash Indian Reservation, Santa Ynez, CA

Developed a groundwater and wellhead protection plan for the Santa Ynez Indian Reservation. The plan provided an assessment of the potential threats to the groundwater supply and recommended measures for protecting the ground surface and subsurface areas through which contaminants are likely to pass before reaching the Reservation's supply wells. Local and state agencies were contacted in order to obtain information regarding groundwater conditions in the site vicinity and to identify sources of contaminants within the area and potential sources of contamination in the areas immediately surrounding the Reservation. Deliverables included report with findings and recommendations.

Compliance Program – Annual Wastewater Inventory and Database

Vandenberg Air Force Base, CA

Annual inventory was conducted of wastewater, surface water, and industrial wastewater discharges at VAFB to support compliance with multiple local, state and federal regulations including the local POTW permit, EPA requirements for Class V Underground Injection Wells, and California Regional Water Quality Control Board requirements for discharges of wastewater to grade. Tasks associated with the compliance program included site inspections to identify noncompliance for any discharge activities on base at almost one thousand locations. Facility site inspections were coordinated, documentation review was conducted, and the MySQL database was maintained.



Chris Adams, PE

Process Modeling

Mr. Adams is a Professional Engineer with 25 years of experience specializing in hydraulic analysis using computer-aided modeling platforms. His experience includes developing and operating water system hydraulic models, pump station design, transient analysis, water quality modeling, master planning, unidirectional flushing programs, and performing quality control and project management for hydraulic and modeling-related projects.

Education/Qualifications

- BS, Civil Engineering, Georgia Institute of Technology, 2000

Years of Experience

Total – 25
With Arcadis – 3

Professional Registration/ Certifications

- Professional Engineer – GA

Relevant Experience

Hydraulic Analysis for Central, North, and South Wastewater Treatment Facilities*

Miami-Dade Water and Sewer District, FL

Technical Lead for evaluating existing and proposed hydraulic and throughput capacities for each of the WWTF serving WASD under multiple criterion, and operational procedures

Transient Analysis for 18 Miles of 36-inch Transmission Main*

Palm Beach County Water Utilities, FL

Project engineer responsible for developing a hydraulic model for 18 miles of 36-inch transmission main that delivers approximately 29 MGD of reused water to the Florida Power and Light Facility.

Water Model Development, Calibration, and Analysis*

City of West Palm Beach, FL

Modeling & hydraulics lead responsible for updating the City's water model to include new infrastructure and operations.

Hydraulic & Transient Analysis for Lake Lanier Bypass*

Gwinnett County, GA

Hydraulics modeling lead for developing a hydraulic model and performing a transient analysis of the Wayne Mason and Shoal Creek raw water transmission mains.

City of Portsmouth Water System Deficiency Analysis*

City of Portsmouth, VA

Modeling lead for updating criticality analysis using the City's existing water system model.

Central Arkansas Water Calibration and Optimization Program

Central Arkansas Water, Little Rock, AR

Technical advisor, QA/QC, for model development and calibration; hydraulics lead for pump station analysis.

Birmingham Water Works Board

Birmingham Water Works Board, Birmingham, AL

Technical lead for model development and calibration for the northern service area and secondary gradient.

Western High Service Pump Station Transient Analysis

City of Laredo, TX

Project manager and technical lead for analysis of transient impacts for the proposed upgrade to the West High Service Pump Station.

Big Alamance and Liberty Road Lift Station Transient Analysis

City of Greensboro, NC

Technical lead for analysis of transient impacts for the proposed upgrade to the Big Alamance lift station and the proposed new Liberty Road Lift station.

Water System Model and 20-Year CIP

City of Marysville, OH

Technical advisor and QA/QC for the model development, calibration, and development of a 20-year CIP.

Unidirectional Flushing Program

Greene County, OH

Technical advisor and QA/QC responsible for developing a Unidirectional Flushing Program for the County.

Water Utility Planning and Support

Fayette County, GA

Technical lead for maintaining the County hydraulic model, providing on-call engineering support for its distribution system.

Water Model Development, Calibration, and Analysis*

Forsyth County, GA

Technical lead for updating, calibrating, existing system analysis, and developing 30-yr CIP and optimized system flushing routines for improved water quality.

Reclaimed Water Hydraulic System Model

Alexandra Renew Enterprises, Alexandra, VA

Hydraulic modeling lead responsible for updating a hydraulic model of Alexandra reclaimed water system.

DoD Facility Master Plan*

Futenma Base, Okinawa, JPN

Hydraulic modeling lead for developing a hydraulic model of the base, a custom field data collection plan,

calibrating the model, evaluating the system, and identifying recommendations

Water Facilities Master Plan & Raw Water Transmission Main Analysis*

Central Arkansas Water, Little Rock, AK

Project engineer responsible for developing a hydraulic model and transient analysis for approximately 8 miles of 72-inch and 48-inch transmission mains that deliver approximately 150-mgd of raw water to the Jack Wilson water treatment plant.

Tailings Reduction Operations Water Pipeline Hydraulic & Transient Analysis*

Suncor, Calgary, Alberta, CAN

Modeling lead for developing a hydraulic model for pumping and pipeline systems to reduce total placed tailings volumes and increase water recycling to the process operation.

River Water System Transient Analysis*

Carmon Creek Facility, Alberta, CAN

Project engineer responsible for developing a hydraulic model and transient analysis for 1900 miles of 18-inch transmission main delivering 3 MGD of raw water to the Peace River and Carmon Creek Facility.

Water Model Master Plan and UDF Pilot Study*

Clayton County Water Authority, Clayton, GA

Modeling lead for field data collection, updating, calibrating, analysis, and developing a 30-year CIP. Developed a pilot unidirectional flushing program in areas of the water system, indicating high customer complaints and successful results.

Water Model Development and Calibration*

Hallsdale Powell Utility District, Knoxville, TN

Modeling and hydraulic lead responsible for developing a detailed hydraulic model using HPUD's available GIS.

Water System Model and Recommendations

Suwon Air Force Base, Gyeonggi Province, KOR

Project manager and technical Lead for the field data collection, development, calibration, evaluations, and recommendations under UFC guidelines.

Apeadero WTP Elimination Project

Puerto Rico Aqueduct and Sewer Authority, Padillas, PRI

Hydraulic modeling lead, supporting the design for sizing in-line booster pump stations to support supply to the barrio from a nearby supply and eliminate the need for the existing WTP.



Kurt Kinney, PE

Reuse and Effluent Disposal

Mr. Kinney is a dedicated advocate for water reuse initiatives, playing a pivotal role as an active member of the WaterReuse Association. As an active participant, he remains at the forefront of evaluating and advancing reuse strategies for different clients. With 12 years of experience including water treatment design, USACE Section 408 approval, CMAR project delivery, and design management, Mr. Kinney will leverage his extensive expertise to support the source water analysis, coordination with regulatory agencies, and treatment expansion design.

Education/Qualifications

- BS, Food, Agriculture, and Biological Engineering, The Ohio State University, 2014

Years of Experience

Total – 12

With Arcadis – 12

Professional Registration/ Certifications

- Professional Engineer – OH
- Construction Documents Technologist (CDT)

Relevant Experience

Olentangy WTP GAC Improvements

Del-Co Water Company, Delaware, OH

Design manager for the granular activated carbon retrofit of the existing filter building at the Olentangy Water Treatment Plant for advanced water quality treatment. Responsibilities include construction manager at risk (CMAR) document development, design coordination between process mechanical, structural, and instrumentation engineering disciplines, and basic project management duties.

Home Road Water Plant

City of Columbus, Columbus, OH

Arcadis design lead for the raw water intake, low service pumping, pretreatment chemical building, filter building, backwash tanks, and post chemical treatment facilities. Responsibilities include leading coordination with design disciplines within Arcadis and others on the project team. Assisted with hydraulic calculations, pump sizing, cost estimating, chemical feed design, specification development, and process floor plan layouts. Designed the filter aid polymer feed system and dilution water softening system for the post chemical treatment building. Project management responsibilities included developing the scope and fee, invoices, and attending team leader meetings with the lead firm and client.

South Second Street Interceptor

City of Newark, Newark, OH

USACE Section 408 Approval for installing large diameter sewers and gate structures in a flood levee along the South Fork Licking River. Mr. Kinney coordinated directly with the USACE Huntington District office and their Section 408 Coordinator to meet their design standards and retain the Section 408 Approval letter for construction of the new utilities through a flood levee.

Water Treatment Plant Process Evaluation

City of Steubenville, Steubenville, OH

Responsible for process equipment coordination and the construction cost estimate for an engineering study of the plant to evaluate process changes and projects to improve performance and capacity.



Brian Duane, PE

Pumping Systems

Mr. Duane's experience includes the design of more than 50 water and wastewater pumping facilities with capacities of more than 1-million gallon per day (mgd). He is a technical expert in hydraulics, pumping systems and the design of mechanical process systems, and he routinely assists with start-up and troubleshooting of mechanical systems. Throughout his career, he has partnered with clients to provide cost-effective solutions that are functional, practical, maintainable, and constructible. He offers exceptional value to clients based on his proven track record of practical design, history of successful project execution and completion, and understanding of the client's needs during the construction, start-up and post-construction project phases.

Education/Qualifications

- BS, Mechanical Engineering, Georgia Institute of Technology, 1981

Years of Experience

Total – 43

With Arcadis – 9

Professional Registration/Certifications

- Professional Engineer – FL, GA, NY, TX

Relevant Experience

Hollywood Water Treatment Plant (WTP) High Service Pump Station

City of Hollywood, FL

Design Engineer for the preliminary design and technical advisor for the final design of 57.6-mgd firm capacity pump station that included six 8,000-gallons per minute, 400-hp horizontal split case pumps with variable frequency drives (VFDs). Project included scale hydraulic modeling of the clear wells at Clemson Engineering Hydraulics to verify suction intake conditions.

C-139 Flow Equalization Basin and G-550 Pump Station

South Florida Water Management District, Clewiston, FL

Pump Station Lead during preliminary design and technical advisor during final design and construction of a 450-mgd (690-CFS) pump station utilized during high flow events to convey wet weather flows to a flow equalization basin preventing the discharge of untreated water into the Florida Everglades. The pump station included a HI 9.8 compliant intake channels and pump intakes, six flex rake screens, six vertical line shaft axial flow pumps (74-mgd) and an emergency generator.

Elm Fork Water Treatment Plant (WTP) Pump Station 1

Dallas Water Utilities, Dallas, TX

Technical Advisor for the 160-mgd high-service pump station (four 40-mgd horizontal split case pumps with 2,750-hp motors) and 220-mgd raw water pump station. Project included scale hydraulic modeling of suction piping at Clemson Engineering Hydraulics.

Richland Creek River Intake and Reservoir Pump Stations

Paulding County, Dallas, GA

Technical Advisor during the construction of a 64-mgd raw water intake and pump station on the Etowah River and 36-mgd reservoir intake and pump station. The raw water intake consisted of half-barrel intake screens with air-

burst cleaning system and four 16-mgd, 1,500-hp, wet well mounted vertical turbine pumps. The reservoir pump station consisted of a tower style intake structure with three 9-mgd, 400-hp, wet well mounted vertical turbine pumps.

Cornish Creek WTP Upgrade

Newton County Water Resources, Newton County, GA

Performed preliminary engineering review of the raw water pumping system and quality assurance review of the high service pumping system for the \$130 million WTP upgrade.

Southeast Louisiana Pump Station #13

United States Army Corps of Engineers, Algiers, LA

Technical Advisor/Mechanical Quality Control Reviewer for the pump station with three axial flow pumps, six mechanical bar screens, and three standby emergency generators for pump operation during power outages. Each pump was rated for 388-mgd (600-cubic feet per second [CFS]) at a Total Dynamic Head (TDH) of 23.5 feet and powered by 3,000-hp motors driving the pumps through an in-line planetary gearbox. The pumps take suction from a hydraulic institute 9.8 compliant intake through formed suction intakes (type 10). The intake was hydraulically proven in a Froude-scale hydraulic model at Clemson Engineering Hydraulics.

Lake Huron WTP Low Lift & Wash Water Pump

Great Lakes Water Authority, Detroit, MI

Technical Advisor/Quality Control Reviewer for the evaluation/replacement of two 1,250-hp, 100-mgd low lift vertical turbine pumps, and two 2,250-hp, 200-mgd low lift vertical turbine pumps and four 900-hp, 50-mgd vertical turbine wash water pumps. All pumps were driven by synchronous motors.

Potomac Raw Water Pump Station

Loudoun Water, Leesburg, VA

Technical Advisor during the construction, start-up, and commissioning of a 40-mgd raw water pump station and intake on the Potomac River. The intake consisted of 16 half-barrel, 1-millimeter intake screens with flushing and air burst support systems. The pumping station sits on top of a 100-foot deep, 29-foot finished diameter shaft connected to the river via a 12-foot diameter tunnel. Four 900-hp vertical turbines lift water from the Potomac River and convey it to Loudoun Water's Trap Rock Water Treatment Facility.

Henry F. Sliwinski WTP

Frederick Water, Frederick County, VA

Technical Advisor/Mechanical Quality Control Reviewer for the design of the new 8-mgd direct membrane filtration with chlorine disinfection WTP. The high service pumps were three vertical turbine pumps in suction barrels/cans. The six stage pumps were rated at 4-mgd with a TDH of 565-foot and powered by 600-hp motors.

Holmes Run Pump Station Rehabilitation Design

Fairfax County, Fairfax, VA

Quality Assurance/Quality Control/Technical Advisor for the project including the generation of a BIM 3D facility and asset model. Major upgrades included the addition of four VFDs with passive harmonic filters for the 150-hp pump motors, automatic transfer switch, generator docking station, temporary load bank connection and standby generator.

Geist Reservoir Quarry Pump Station

Citizens Energy Group, Indianapolis, IN

Technical Advisor/Quality Control Reviewer for the design of a 100-mgd intake structure with coarse bar screens and a 230-foot deep 7-foot diameter vertical drop shaft that connects to an 8-foot diameter horizontal tunnel to convey raw water from the Geist Reservoir to the bottom of the converted quarry. The pump station consisted of four 48-inch diameter vertical drop shafts from the top of the quarry wall 230 feet down to the bottom of the quarry to tying into an 8-foot diameter horizontal tunnel to withdraw water from the bottom of the quarry. Each vertical drop shaft is equipped with a 600-hp vertical turbine pump operated on VFDs and a pressure regulating valve to deliver a minimum of 10-mgd each across the entire 230-foot range of static head conditions.



Eric Battle, PE

Electrical

Mr. Battle is a senior electrical engineer with extensive and varied experience in the analysis, design and services during construction of power distribution systems, facility systems, power system analysis calculations, as well as I&C systems and SCADA. He has gained skills through the design, bidding, procurement, and construction management of many water and wastewater facility projects and upgrades. He demonstrates strong relationship management and communication skills with the ability to network and team with project managers, peers, clients, vendors and contractors. Mr. Battle is resourceful, analytical, and detail driven on every project, no matter the scale, with a goal to provide his clients with the best possible service and products.

Education/Qualifications

- BS, Electrical Engineering, Virginia Commonwealth University, 2004

Years of Experience

Total – 17

With Arcadis – 9

Professional Registrations/ Certifications

- Professional Engineer – FL, GA, PR

Relevant Experience

Miramar West Water Treatment Plant – Nanofiltration Upgrades

City of Miramar, FL

Lead Electrical Engineer for the upgrade and expansion of the existing West Water Treatment Plant. The treatment process consists of nanofiltration membrane softening for softening of Biscayne Aquifer raw water, and reverse osmosis membrane treatment for TDS removal with Floridan Aquifer as the feed water. Post treatment includes permeate degasification, chemical injection (fluoride, sodium hypochlorite, sodium hydroxide, and corrosion inhibitor), transfer pumping, and clearwell storage. A detailed evaluation of the whole electrical system of the plant was performed to confirm the equipment that needed to be replaced, and/or upsized to accommodate demands of the new equipment.

Lift Station No. 6 Rehabilitation Engineering, Services During Construction and Post Construction Services

City of Hallandale Beach, FL

With the existing lift station structure past the end of its service life, Arcadis recommended that the station be rebuilt to meet current and future demand per client requirements. This project work included design, permitting coordination, bidding, support, and services during construction (SDC) for the rehabilitation of Lift Station No. 6. Provided project electrical/I&C engineer support.

Picayune Strand Restoration Project

South Florida Water Management District, Naples, FL

The Picayune Strand Restoration Project scope included the development of plans and specifications and engineering services during construction for three flood control pump stations totaling 4,780 cubic feet per second capacity as part of the SFWMD Acceler8 program. Mr. Battle's scope of work included producing both electrical and I&C detailed contract drawings, schematics, project specifications and construction cost estimate documentation. During construction, Mr. Battle conducted walkdowns of facility systems with contractor staff to observe progress

and conformity to the contract documents. Systems designed and inspected include: Electrical distribution system including Diesel Generators, Brackett Green Traveling Bridge Screens, Duperon Screens, Diesel Pumps, Cooling Water Systems, Lubricating Water Systems, Exhaust and Supply Fans, Lube Oil Systems, Lightning Protection Systems, Fire Detection and Alarm Systems and Access Control Systems, SCADA.

As-Needed Engineering Contract

Tampa Bay Water, FL

Electrical/I&C Design Engineer for numerous utility engineering improvement projects for Tampa Bay Water under the existing as needed/ master service agreement. Projects include: Tampa Bypass Canal Transmission Main Cathodic Protection Improvements and Advanced Decision Intelligence Program.

Tallahassee Engineering Services, Water Resources Engineering, Water/Wastewater Services

City of Tallahassee, FL

Electrical/I&C design engineer for professional services relating to permitting services, design services, construction-related services, specific projects, and engineering studies.

William E. Dunn Water Reclamation Facility Headworks

Pinellas County, Palm Harbor, FL

Project electrical/I&C engineer for the design and construction to replace the existing screens and implement improvements to the headworks for better inorganic solids removal. The system included power distribution modifications, variable frequency drive (VFD) driven influent mechanical bar screens, automated compactors, new programmable logic controllers (PLCs) and integration into the facility's existing SCADA system. Construction administration services included both electrical and I&C support for RFI's, submittal reviews, performance testing and documentation, etc.

Airport WRF Expansion Modifications

Hernando County, FL

Scope of work included making modifications to electrical design, including coordination with two other consulting firms and development of electrical plans, schematics, diagrams, detailed drawings, project specifications and construction cost estimate documentation. Conducted walkdowns of facility systems with contractor staff to observe status of punch list items and verify completion including electrical distribution system including diesel generator and

paralleling switchgear, electrical buildings, headworks, oxidation ditches, dewatering building, clarifiers, RAS/WAS, plant water, chlorine injection building, etc.

Pump Station Electrical/SCADA Upgrades Phase II Hillsborough County, Tampa, FL

Electrical/I&C design engineer for the \$18-million rehabilitation and installation of the new SCADA control systems for 326 existing and new pump stations. The project included the installation of new control panels, underground raceway systems and power systems for the pump stations upgrades. Duties included general construction phase engineering services, inspections, as well as startup and testing.

Oberly PS Chemical Addition

City of St. Petersburg, FL

Responsible for the modifications to existing structures including demolition of remaining chlorine gas equipment, preparation of the space for the new sodium hypochlorite, ammonia, and sodium hydroxide equipment, routing of new conduit and piping, and installation and start-up of new chemical injection equipment.

Hamlin Water Reclamation Facility

Orange County, FL

Electrical/I&C Design Engineer — For the 5-mgd Hamlin Water Reclamation Facility. This is a brand-new facility that started operation in September 2022 and is treating water to reclaimed water standards. Responsibilities include troubleshooting commissioning issues and coordination with owner, contractor and equipment suppliers.

Hemphill Pump Station Upgrades

City of Atlanta, GA

Senior electrical engineer who produced both electrical and I&C detailed contract drawings, schematics, project specifications and construction cost estimate documentation. During construction, conducted walkdowns of client facility systems with construction contractor staff to observe progress and conformity to the contract documents.

Albert Whitted Water Reclamation Facility Influent Pump Station

City of St. Petersburg, FL

Associate Electrical Engineer. Duties include electrical design of 30 mgd submersible pumping capability, new 30 mgd coarse bar screen equipment with conveyor system, and fine screenings compactor units at existing headworks.



Inna Hely, PE

Controls / SCADA

Ms. Hely is experienced in designing and specifying instrumentation and control systems for water and wastewater treatment facilities. Her experience includes automation strategy design as well as network design for Supervisory Control and Data Acquisition (SCADA) systems. She has worked on extensive assessments of existing instrumentation systems and established plans, specifications, and designs for upgrades. She has extensive experience in programming and configuration of SCADA systems, as well as experience in start-up and construction administration.

Education/Qualifications

- BS, Electrical Engineering, Boston University, 2004

Years of Experience

Total – 21

With Arcadis – 21

Professional Registration/Certifications

- Professional Engineer – FL, DC, GA, MN, NY, PA, SC, VA,
- CDT (Construction Document Technologist)

Relevant Experience

Miramar West Water Treatment Plant – Nanofiltration Upgrades

City of Miramar, FL

Lead Instrumentation and Controls Engineer responsible for the upgrade and expansion of the existing West Water Treatment Plant. The treatment process consists of nanofiltration membrane softening for softening of Biscayne Aquifer raw water, and reverse osmosis membrane treatment for TDS removal with Floridan Aquifer as the feed water. Post treatment includes permeate degasification, chemical injection (fluoride, sodium hypochlorite, sodium hydroxide, and corrosion inhibitor), transfer pumping, and clearwell storage. A detailed evaluation of the whole instrumentation and SCADA system of the plant was performed, several panels are being replaced as part of the integration process.

Wastewater Treatment Consolidation Project

Chemung County Sewer District, NY

Performing design and all Programming Control Logic (PLC) programming and Human Machine Interface (HMI) configuration for the complete replacement of the SCADA system at two wastewater plants. The new SCADA system design includes the installation of 14 new PLC panels, three with redundant PLC processors, integration of seven other PLC panels, installation of redundant SCADA servers, a plant wide fiber optic network, and a cellular network for communication to remote sites. Process control includes preliminary treatment, trickling filters, secondary treatment including moving bed biofilm reactors, methanol feed system, UV disinfection, gravity belt thickeners, belt filter presses, and digestors. Auxiliary systems include polymer, chlorine gas, non-potable water, and odor and corrosion control systems.

Central Plant BNR Upgrades and CSO Long Term Control Plan Implementation

Williamsport Sewer Authority, PA

Designed and completed all Programming Control Logic (PLC) programming and Human Machine Interface (HMI) configuration for the SCADA upgrade of the 21-mgd Central Plant, as well as the setup of a new plant-wide Ethernet TCP/IP

network. SCADA system included ten PLCs, redundant HMI servers and remote client workstations, a Historian server, and alarm notification software. Control strategies implemented included preliminary treatment, CSO, aeration tanks and blowers, secondary clarifiers and RAS, denitrification filters, methanol, NPW system, and various chemical systems. Coordinated the startup of all plant control panels and workstations for a complete SCADA system.

Falling Creek Treatment Plant BNR Upgrade

Chesterfield County, Richmond, VA.

Designed control upgrades for new fine screens, methanol storage and feed system and an integrated fixed film activated sludge system.

Loudon Water Raw Water Intake and Potomac Raw Water Pumping Station

Loudon Water, Ashburn, VA

PLC programming and HMI configuration for the raw water intake and pump station. Control strategies included raw water pump control, raw water intake and air burst system, intake screen flush system, chemical system, surge tank system, and auxiliary systems.

Cobbs Creek Regional Water Supply Reservoir

Henrico County, Columbia, VA

Instrumentation & controls for the 150-mgd raw water pump station. Station included six 25-mgd vertical turbine pumps, two wet wells to comply with HI standards, and innovative piping to allow 72-inch discharge header to accommodate return flow to the river.

Holmes Run Pump Station Rehabilitation Design

Fairfax County, Fairfax, VA

Instrumentation & Controls: The project includes the generation of a Building Information Modeling 3-Dimensional (3D) facility and asset model. Major upgrades include the addition of four variable frequency drives (VFDs) with passive harmonic filters for the 150-hp pump motors, automatic transfer switch, generator docking station, temporary load bank connection, and standby generator.

Turner Road Pump Station Rehabilitation Design and Construction

Chesterfield County, VA

Instrumentation & controls for the rehabilitation design of a 35-year-old wastewater pump station in Chesterfield County, Virginia, doubling the firm pumping capacity of the pump station to 35.7 mgd.

Noman M Cole Jr. Pollution Control Plant Filter Rehabilitation Project

Fairfax County, Fairfax, VA

Designed and implemented a pilot SCADA system to collect, store and transmit required compliance data. Performed programming and configuration of pilot SCADA system as well as operator and system maintenance training of the new system.

SCADA Systems Replacement Project

Henrico County, Henrico, VA

Performed design for the complete replacement of the SCADA systems at water and wastewater facilities, including the water reclamation facility, water treatment facility, and over 30 remote pump stations. The design includes the installation of 21 new PLC panels and the modification of over 60 others.

Huntington Levee Project Phase II

Fairfax County, Fairfax, VA

Performed design of a 155-mgd pumping station for flood protection. Design included all status monitoring, remote control, and automation. Engineering services will include programming and configuration of all new process control hardware.

West Plant Headworks and Secondary Digester Cover Replacement

Williamsport Sewer Authority, Williamsport, PA

Designed and completed all PLC programming and Human Machine Interface (HMI) configuration for the Headworks replacement of the West Plant. Interface with the existing system included modifications to several plant PLCs as well as a reconfiguration of the plant-wide PLC Ethernet network. Control strategies implemented included coarse bar screens, influent pumping, fine screens, and grit system. Interfaced new headworks control system with the existing plant wide system. Coordinated the startup to provide a completely integrated SCADA system.

Filtration Plant Control System Upgrades

Williamsport Municipal Water Authority, Williamsport, PA

Designed and completed all PLC programming and HMI configuration for the SCADA upgrade of the WTP. Project included the installation of a brand-new SCADA system, the replacement and/or modification of all PLC control panels in the plant and two remote pump stations, as well as installation of associated electrical conduit and wiring, and fiber optic cable. Simultaneously, performed construction administration for this project.



Donnell Duncan, PE, SE

Structural

Mr. Duncan is the South Regional Structural Engineer in the Resilience (Water) Business Area serving as the Structural Engineer of Record on projects ranging from a \$100+ million wastewater treatment plant design in California to condition assessments and forensic investigations of existing sanitary structures throughout the Southeastern United States.

Education/Qualifications

- MS, Civil Engineering, Georgia Institute of Technology, 2003
- BS, Applied Physics, Morehouse College, 2002
- BS, Civil Engineering, Georgia Institute of Technology, 2002

Years of Experience

Total – 22

With Arcadis – 8

Professional Registration/ Certifications

- Professional Engineer – FL, GA, TN, LA, MI, PA, TX, NC, AR, MN, KS, IA, OH, MD, AL, VA, CA, SD, KY, SC, ND, MS, IN, DC, UT, HI, PR, WA
- Structural Engineer/ SE – GA, IL, NE, AZ

Relevant Experience

Miramar West Water Treatment Plant – Nanofiltration Upgrades

City of Miramar, FL

Lead Structural Engineer for the upgrade and expansion of the existing West Water Treatment Plant. The treatment process consists of nanofiltration membrane softening for softening of Biscayne Aquifer raw water, and reverse osmosis membrane treatment for TDS removal with Floridan Aquifer as the feed water. Post treatment includes permeate degasification, chemical injection (fluoride, sodium hypochlorite, sodium hydroxide, and corrosion inhibitor), transfer pumping, and clearwell storage.

Hollywood WTP – Aeration Building Pump Station

City of Hollywood, FL

Lead Structural Engineer, for the rehabilitation of the existing Aeration Building Pump Station (Secondary Pump Station). The work included the replacement of two (2) 4,500 gpm pumps with one (1) 5,000 gpm pumps with variable frequency drives, new valves and piping. The work also includes a new electrical room.

Prospect Lake WTP Enabling Works, Replacement of Existing High Service Pumps at Fiveash Water Treatment Plant (WTP)

City of Fort Lauderdale, FL

Lead Structural Engineer, this project includes the detailed design of the new High Service Pump Station (HSPS) and new Ground Above Grade Storage Tank (AGST). The scope includes 6 new horizontal split case pumps (70 MGD in total), 2 new generators, 2 new 20,000 gallons fuel tanks, and second story offices inside the new pump station building. The work also includes a 5 MG ground storage tank.

Design of Southwest Water Reclamation Facility

Orange County Government, Orange County, FL

Technical advisor and QA/QC. Reviewed structural design, drawings, and specifications for this new 5 MGD Water Reclamation Facility (with provision for future expansion to 15 MGD). Structures include headworks, Activated Sludge treatment structure, blower building, secondary clarifiers, RAS-WAS pumping Stations, CCT, Disc Filtration, Effluent Transfer Station, water Storage, Sludge Holding Tank, Operation Building, Belt Filter Press canopy, Maintenance Building, Electrical Buildings.

Opequon Water Supply Project

Frederick Water, Frederick County, VA

Structural Engineer of Record. Frederick Water undertook the Opequon Water Supply Plan (OWSP) to provide a reliable, sustainable water source. The goal of the OWSP is to construct a new 8 MGD water treatment plant that takes water from Opequon Creek and provides treated water for the existing distribution system. It also includes upgrades to an existing groundwater well that will provide raw water to Frederick Water's Diehl WFP while the new water treatment plant is under construction.

Sterling Natural Resource Center Design-Build Project

East Valley Water District, Highland, CA

Structural Engineer of Record. Balfour Beatty and Arcadis have teamed together to deliver a state-of-the-art wastewater treatment facility which will produce water to recharge the natural groundwater aquifer, with a design focused on reliability, efficiency, and flexibility to initially treat 8 million gallons of water per day. Structures include the Aeration tank and equipment building, Headworks, Influent Pump Station, Grit Tanks, Electrical Building, Plant Drain Pump Station, Membrane Bio Reactor and Chemical Storage.

Sustainable Water Infrastructure Design-Build Project

Department of Public Works, City of Santa Monica, CA

Structural Engineer of Record. Kiewit Infrastructure West, Arcadis and Perc Water have teamed together to construct the Sustainable Water Infrastructure Program (SWIP) consisting of three elements. Element 1: a modular reverse osmosis (RO) unit at the Santa Monica Urban Runoff Recycling Facility (SMURRF), a new shallow brackish and saline groundwater extraction well at the beach, and new solar panels for energy offset. Element 2: a below grade stormwater and sewer treatment facility at the Civic Center Lot with 1 million gallons per day (MGD) capacity. Element 3: two new stormwater harvesting tanks at Memorial Park and the Civic Center Lot, with 4.5 million gallons (MG) capacity. He leads the Arcadis structural team responsible for Elements 1 and 3.

Noman Cole PCP – Tertiary Filtration Rehabilitation

Fairfax County, Fairfax, VA

Structural Engineer of Record. responsible for study and design rehabilitation of the 30 mgd tertiary filters. Project included replacement of all sluice gates, valves, and associated actuators, demolition of waste backwash pump station and replacement with new pump station,

extensive site piping, and extensive coordination of maintenance of plant operation. Project included Construction Administration Services.

Alcovy River Pump Station Improvements

Gwinnett County Department of Water Resources, Lawrenceville, GA

Structural Investigator and QA/QC: Led structural engineering team for rehabilitation of the wet well and grinder channel at the Alcovy River Pump Station. Performed confined space entry inspections in the below-grade concrete wet well to determine condition of the existing concrete and steel beams, performed QA/QC on the recommendations for rehabilitation methods.

Turner Road Pump Station

Chesterfield County, Chesterfield, VA

Structural Engineer of Record. The Turner Road Pumping Station (TRPS) is a 14.4-mgd wastewater pump station constructed in 1988. Structural modifications included the repair of cracks in the lower-level pump room slab and walls; new concrete pump bases; extension of the mid-level platform to provide access to the relocated Magmeter; support for a new bridge crane in the upper-level motor room; analysis of the upper-level motor room floor to accommodate the increased loads; support pads for the new generator and the new transformer.

Pump Station No. 93 Pump Improvements

Norfolk Department of Public Utilities, Norfolk, VA

Structural Engineer of Record. Improvements to the station's pumps and controls, the wet well and existing pump site was utilized, resulting in significant time and cost savings. During the design phase of the proposed pump and site improvements, the Arcadis design team performed the design of the new pump station control building and associated site improvements. This design effort will be followed by construction administration.

Holmes Run Pump Station Rehabilitation Project

Fairfax County, Fairfax, VA

Structural Engineer of Record. Project included site improvements, including drainage upgrades, a new driveway, and other miscellaneous site work, equipment replacement or rehabilitation, including analysis of all process mechanical, instrumentation and control, electrical, HVAC, plumbing, fire protection, structural, and architectural design elements. Structural modifications included replacement of metal stairs, steel beams, wet well concrete repair, etc.



Patricia Ramudo, PE, LEED AP

Site / Civil

Ms. Ramudo brings over 40 years of expertise in the Civil Engineering field, with extensive experience in the design and implementation of hydraulic systems. Her work spans a wide range of projects, including site development, water distribution systems, flood mitigation initiatives, and computer simulation of steady-state and transient flow for fluid transmission systems.

Ms. Ramudo's project involvement encompasses the full lifecycle, beginning with conceptual design and modeling, and continuing through construction and monitoring phases. As a seasoned Project Manager, she has successfully led numerous projects for both public and private sector clients. Ms. Ramudo has demonstrated expertise in hydraulic analysis, construction administration, and the design and analysis of water, sewer, and stormwater systems, as well as navigating permit acquisition processes at federal, state, and local levels.

Ms. Ramudo is particularly experienced in the design and rehabilitation of existing systems that are either in violation of jurisdictional codes or require modifications for upgrading. Her deep knowledge and commitment to compliance and innovation make her a valuable asset to any project involving complex hydraulic challenges.

Education/Qualifications

- MS, Hydraulics & Hydrology, Cornell University, 1983
- BS, Civil Engineering, University of Miami, 1979

Years of Experience

Total – 40

With Arcadis – 11

Professional Registration/ Certifications

- Professional Engineer – FL, CO
- LEED AP

Relevant Experience

COPANS Transit Operations Facility

Pompano Beach, FL

Civil Lead Engineering responsible for design and coordination of site redevelopment, from Conceptual through Construction Documents, including entitlements and permitting through jurisdictional agencies. Encompassing 25.5 acres, the facility is the main fleet maintenance and storage site for Broward County Transit's bus service and has been in operation since 1985 and comprised of four separate buildings used to house bus maintenance bays, storage areas, wash bays, detailing booths, parking, fueling bays, and an administration and operations center. With aims to condense and modernize the facility, the existing outdated maintenance buildings were demolished to make way for an upgraded, efficient, state-of-the-art space. The new facility will be a modern multi-story facility to support a fleet of 341 fully zero-emission buses including battery-electric and provisions for potential use of hydrogen fuel cell vehicles. Additionally new training facility and emergency control center was added to the campus. This facility is second such facility in the USA and includes rooftop parking, charging stations, and a solar array, which assists with reducing operating costs and overall energy usage.

Pompano Beach Ten Year Public Art Master Plan and Public Art Guidelines

Pompano Beach, FL

Project Manager responsible for coordination with design team and client to produce and implement public art master plan. Coordination efforts were undertaken between the City's Public Art Committee and local residents to develop a comprehensive working document outlining General Public Art Program Guidelines. This process included collaboration with the City of Pompano Beach Community Redevelopment Agency to ensure alignment and support throughout the approval process.

Briny Avenue Streetscape and Urban Design

Pompano Beach, FL

Project Manager and Civil Lead Engineer. Responsibilities included: engineering design and coordination with design team and client, including coordination of coastal road redevelopment, from Final Engineering through Construction Documents, Construction Administration services and permitting through jurisdictional agencies. Land Use and Urban Planning services were provided for a streetscape project in Pompano Beach. The initial phase involved collaboration with the project team to develop a comprehensive inventory and analysis, identifying potential opportunities and constraints within the project area. A "shared street" concept was selected, emphasizing the integration of pedestrians, bicyclists, and motorists while incorporating smart growth and urban design principles to create a safe, functional, and enjoyable environment for the community. The scope of work also included the coordination of underground utilities, encompassing water, sewer, drainage, gas, electric, telephone, and cable systems, ensuring seamless utility integration to support the streetscape's overall design and functionality.

Hallandale Beach Redevelopment Plan Modification 2020

Hallandale Beach, FL

Project Manager and Civil Lead Engineer responsible for conceptual engineering and coordination with design team and client, including processing for approval and adoption. The Urban Planning and Engineering Assessment centered on the four quadrants of the Community Redevelopment Agency, complemented by a citywide visioning initiative. Guided by community engagement and prior studies, the 2020 Plan identified four catalytic projects aimed at driving transformative development, including Harlem Village in the northwest quadrant and Downtown Hallandale/City Campus. The

assessment outlined necessary infrastructure improvements, accompanied by detailed cost estimates, to support the successful implementation of the identified projects and enhance overall community growth and functionality.

Mizner Park Visionary Project

The Center for Arts and Innovation, Boca Raton, FL

Civil Lead Engineer responsible for conceptual engineering and coordination with design team and client. The Boca Raton Center for Arts and Innovation is a visionary project aimed at fulfilling Mizner Park's original promise by establishing a dynamic hub for creativity, innovation, business, and community engagement. The project plans to feature six adaptable performance and event spaces—both indoor and outdoor—with seating capacities ranging from 99 to 3,500, accommodating up to 6,000 attendees.

North Miami Train Station & Major Corridor Master Plan

North Miami, FL

Project Manager and Civil Lead Engineer. Responsibilities included: conceptual engineering and coordination with design team and client, including processing for approval and adoption. Urban Planning services were provided for a Transit-Oriented Development (TOD) project aimed at establishing a progressive and cohesive vision for the station area and its surrounding neighborhoods. The scope of work includes team coordination and civil engineering support for various key components, including public outreach, community workshops, development of a detailed station area concept plan, corridor analysis, design guidelines, a parking management plan, and the creation of Geographic Information System (GIS) maps. These efforts are designed to ensure a comprehensive approach to fostering sustainable growth and enhancing connectivity within the community.

The West Atlantic (The Set) Redevelopment Plan

Delray Beach, FL

Project Manager and Civil Lead Engineer. Responsibilities included: conceptual engineering and coordination with design team and client, including processing for approval and adoption. Urban Planning services were delivered for the unified W. Atlantic and Southwest Neighborhood Redevelopment Plans. The scope of work included a comprehensive assessment of the community's needs, market demands, redevelopment opportunities, and emerging development trends. Community outreach and stakeholder interviews were conducted to gather public input and ensure the redevelopment plans reflected the community's vision and aspirations.



Jose Custodio, PE

Site Civil

Mr. Custodio is a professional engineer registered in the states of Florida and Puerto Rico, with background in utilities engineering and construction management. Work experience includes planning, design, procurement, construction management of several Capital Improvements Program (CIP) projects for different municipalities in the State of Florida and for the Puerto Rico Aqueduct and Sewer Authority (PRASA).

Education/Qualifications

- ME, Construction Engineering, Polytechnic University of PR, 2013
- BS, Civil Engineering, Polytechnic University of PR, 2010

Years of Experience

Total – 16

With Arcadis – 5

Professional Registration/Certifications

- Professional Engineer – FL, PR
- OSHA – 30 Hrs. Construction Industry
- Florida Department of Environmental Protection Agency (FDEP) – Qualified Stormwater Management Inspector
- American Water Works Association

Relevant Experience

Miramar West Water Treatment Plant (WTP) Nanofiltration Replacement City of Miramar, FL

Project Manager and EOR for the upgrade and expansion of the existing West Water Treatment Plant. The treatment process consists of nanofiltration membrane softening for softening of Biscayne Aquifer raw water, and reverse osmosis membrane treatment for TDS removal with Floridan Aquifer as the feed water. Post treatment includes permeate degasification, chemical injection (fluoride, sodium hypochlorite, sodium hydroxide, and corrosion inhibitor), transfer pumping, and clearwell storage. Project elements include the removal and replacement of the cartridge filtration system, removal and replacement of the existing Nanofiltration (NF) trains with new 2.5-mgd NF trains, rehabilitation of the existing degasifiers, installation of a new degasifier, new transfer pumps, and chemical system upgrades. Because the plant is required to maintain full production during construction, novel thinking around construction sequencing and maintenance of plant operations was required and it was decided to temporarily convert a new Reverse Osmosis (RO) train from treating Floridan raw water to treat Biscayne raw water using NF membranes.

Five Ash WTP Lime Softening Residual Ponds Assessment City of Fort Lauderdale, FL

Project Manager, responsible for the evaluation of the two ponds in the Prospect Lake site that receive lime softening residuals from the existing Fiveash WTP. The work included capacity evaluation (current and remaining) of the ponds, characterization of the material, and evaluation of different alternatives for the removal of the material including reuse. Each alternative was evaluated based on risks to the environment, to the City and costs associated with each.

Fort Lauderdale High Service Pump Station at Fiveash WTP – Basis of Design Report

City of Fort Lauderdale, FL

Design project manager responsible for coordinating the development a Basis of Design Report (BODR) to evaluate the options for the City of Fort

Lauderdale new High Service Pump Station (HSPS). The alternatives evaluated were rehabilitation of the existing HSPS with a firm capacity of 70 million of gallons per day (mgd) and a new HSPS with a firm capacity of 72 mgd (6 horizontal split case pumps). The alternatives were evaluated in terms of maintenance of operations, construction schedule, redundancy/reliability, ease of operations, environmental impacts and support functions.

Secondary High Service Pump Station Rehabilitation at Hollywood WTP

City of Hollywood, FL

Design project manager responsible of coordinating with the disciplines for the rehabilitation of the existing Secondary High Service Pump Station. In addition, engineer of record for the mechanical sheets. The existing condition was two (2) 4,500 gallons per minute (gpm) pumps. The new layout is one (1) 5,000 gpm pump, with a new electrical room for VFDs, new piping and structural rehabilitation of the structure.

Prospect Lake CWC 48" Finished Water Line Design Criteria Package

City of Fort Lauderdale, FL

Owner's Representative for approximately 17,500 LF of 48" finished water line from the new Prospect Lake Clean Water Center to Fiveash WTP along Prospect Road. The work also included construction management, onsite inspections, constructability reviews, detailed plan reviews, and review of pay applications. The project was divided into 9 Phases. For phases 2, 3, 4, 6 and 9, the design proposed the use of 54" diameter prestressed concrete cylinder pipe (PCCP) via open cut, near the FXE Airport. Phases 1, 5, 7 and 8 the material proposed was HDPE for the horizontal directional drilling segments near on Broward County.

Lift Station No. 6 Rehabilitation Engineering, Services During Construction and Post Construction Services

City of Hallandale Beach, FL

With the existing lift station structure past the end of its service life, Arcadis recommended that the station be rebuilt to meet current and future demand per client requirements. This project work included design, permitting coordination, bidding, support, and services during construction (SDC) for the rehabilitation of Lift Station No. 6.

Consent Order Project - 30-inch Force Main A-Repump Station to GTL Wastewater Treatment Plant

City of Fort Lauderdale, FL

Construction project manager for design-build project. Responsible for managing the design-build project through final completion and close-out to comply with the FDEP Consent Order deadline and avoiding penalty fees to the City. Project consisted of the trenchless repair/rehabilitation of approximately 20,000 LF of 30-inch diameter force main located along the Fort Lauderdale Downtown area. In addition to the typical open-cut installation, various trenchless methods were used like horizontal directional drilling and compression fit. The construction cost of the project was \$15,500,000.

Consent Order Project - East Las Olas Blvd 12-inch Force Main Replacement – Pipe Bursting

City of Fort Lauderdale, FL

Construction project manager responsible for managing the construction of the project through final completion and closeout to comply with the FDEP Consent Order deadline and avoiding penalties fees for the City. Project consisted of the replacement of approximately 2,300 LF of 12-inch diameter force main with a 16-inch diameter HDPE force main along Las Olas Blvd. corridor. Along with the open-cut method, the trenchless method of pipe bursting was used for this project.

SSES and CMOM Plans for Town of Bay Harbor Islands

Town of Bay Harbor Islands, FL

Public works director and town engineer responsible for the preparation of the sewer system evaluation survey (SSES) and capacity management, Operation and maintenance (CMOM) reports for submittal to Miami-Dade County on an annual basis. Directed staff in performing night flow monitoring, visual inspection of sanitary sewer manholes, contracted smoke testing and CCTV services to determine I&I sources in the system.



Errol Dawkins, RA, LEED BD+C

Architecture

Mr. Dawkins establishes the Arcadis water division's architectural design approach and technical direction and coordination of the architectural group. He is experienced in industrial, institutional, commercial, and municipal design and construction projects throughout the tri-state area of metropolitan New York. He is a member of award-winning design teams for schools, libraries, recreational facilities, and other municipal buildings. As an Architectural Project Leader and Manager, he has worked on various projects including recreation centers, public and private schools, water and wastewater treatment facilities, pools, laboratories and offices.

As a LEED accredited professional, he incorporates sustainable building strategies into his design projects. He has a broad knowledge of the various building codes and standards, such as International Code Council, National Fire Protection Association, Occupational Safety and Health Administration and American National Standard Institute, to conduct building code reviews for various types of projects and confers with both local and state code officials to resolve unique code conditions.

Relevant Experience

Prospect Lake WTP Enabling Works, Replacement of Existing High Service Pumps at Fiveash Water Treatment Plant (WTP)

City of Fort Lauderdale, FL

Lead Architect, This project includes the detailed design of the new High Service Pump Station (HSPS) and new Ground Above Grade Storage Tank (AGST). The scope includes 6 new horizontal split case pumps (70 MGD in total), 2 new generators, 2 new 20,000 gallons fuel tanks, and second story offices inside the new pump station building. The work also includes a 5 MG ground storage tank.

Drainage Investigation & Assessment for St. James Recreation Center and Park

New York City Office of Management and Budget, Bronx, NY

Serving as the lead architect, Errol is using his broad knowledge of the various building codes and standards to support in the successful project completion. In response to Hurricane Ida, Arcadis was contracted to conduct a comprehensive site investigation to assess flood risks at the site and to prepare recommendations that mitigate these risks for the purpose of developing cost estimates to inform capital planning.

Education/Qualifications

- Bachelor of Architecture, CUNY City College, 1989
- BS Architecture, CUNY City College, 1988

Years of Experience

Total – 37

With Arcadis – 19

Professional Registration/ Certifications

- Registered Architect – NY, CT, NJ, DC, FL, GA, MA
- Leadership in Energy and Environmental Design (LEED)

Consolidation of Four Staten Island Courts

New York City Office of Management and Budget,
Staten Island, NY

Principal architect on condition assessment team, reviewed courthouse for compliance with building code, and accessibility as well as review zoning requirements for potential building expansion. Performed site view and recorded visual observations of the state of means of egress, emergency lighting, fire protection and accessibility features. Confirmed as constructed building code compliance and current code status. Analyzed accessibility features in the context of previous ADA regulations and building code requirements.

Harper Street Yard Maintenance Yard Master Plan

New York City Dept of Transportation (NYCDOT), New York, NY

Lead architect for the Master Planning of the Harper Street Yard Maintenance facility. The facility sits on Flushing Bay and has been in continued use since 1930's with very few upgrades. The master plan focused on personnel space and infrastructure which required major upgrades due to soil conditions and storm impact. Presented several master plan options varying in scope and cost to the NYCDOT. The selected option was refined and includes both building resiliency as well as site resiliency features.

Four Bus Depots Flood Mitigation and Resiliency

Metropolitan Transit Authority, New York, New York, NY

Served as senior project architect for the design of flood doors and penetrations mitigation at four New York City Transit Authority bus depots located in Manhattan, Queens and Staten Island. Project included surveying existing opening conditions and potential water leakage through penetration below the design flood elevation. Provided designs replacing existing hollow metal doors with flood resistant doors and replacement of penetration sealants below the design flood elevation.

Barry Park Field House Re-Imagined Pro Bono

City of Syracuse, NY

Project architect for the renovation of the Barry Park Field House. The field house is situated in Barry Park and is not configured to meet future growth and uses. The field house renovation design plans provided the City of Syracuse with a road map to expand the use of the facility as funds become available. The renovation plans included a new exterior façade with insulation to allow for use of the facility during the winter months, upgrading restrooms with better accessibility and functionality, improved storage and common space utilization, and new outdoor pavilions for recreational events which include music events and arts and crafts.

Bellevue Hospital Flood Resiliency

New York City Health and Hospitals Corp, New York, NY

Architect on design team reviewing options for short term flood mitigation as long-term plans are being developed. Review options are possible conflicts with egress and circulation and aesthetic concerns. Developed wall enhancement options for permanent flood barrier walls. Developed conceptual design for relocated electrical equipment to study impact on street and surrounding services.

Jersey City Medical Center (JCMC) Flood Protection

RWJ Barnabas Health, Jersey City, NJ

Lead architect on the JCMC flood protection design. Responsible for the integration of the flood protection measures into the urban fabric and public way. Reviewed flood protection design for constructability including hospital's ability to maintain functions. Flood mitigation measures used on the project included deployable barriers, flood doors and feature flood walls. Establishing architectural language that complements the existing building architecture and blends into the public way streetscape.

Activation of City Tunnel No. 3 Stage 2

NYCDEP, New York, NY

Served as principal architect, provided technical expertise during the New York City Tunnel No. 3 Activation project. Reviewed and helped with the waterproofing and various other architectural components of the below grade shafts. Met with waterproofing manufacturers and contractor to resolve waterproofing seepage issues and other work. Observed and documented contractor's corrective work including installation of waterproofing membrane on buried structures.

In City Dam Facility Plan Central Park

NYCDEP, New York, NY

Project architect for the assessment and renovation of Jackie Onassis Kennedy Reservoir Gate House structures which are landmarked. The reservoir structures consist of three gate houses with valve and piping chambers below. The architectural scope included the evaluation and assessment of the architectural components and the design of approved recommended repairs to the gate houses. Recommended architectural work included replacement of original metal entry doors, provide entry landing meeting environmental health and safety standards, re-establishment of window glazing and masonry refurbishment of interior brick and masonry walls.



Debra Hernandez, RLA

Landscape Architecture

Ms. Hernandez has over 29 years in the field of landscape architecture. Her experience encompasses landscape designs for major land development projects including City, County and regional utilities, industrial and business parks, as well as infrastructure facilities, retail plazas, mixed-use commercial developments, high-end estates and multi-unit residential projects. Services provided include complete landscape designs, planting plans, hardscape elements and site amenities, public spaces and circulation, signage and entry features. Work history also includes field research and documentation of existing site conditions, preparation of tree inventory and relocation plans and document preparation for tree mitigation and/or regulatory compliance.

Education/Qualifications

- Certificate of Landscape Architecture, University of California - Irvine, 1996
- Advanced Courses in Business Administration, California State University, 1982-1983
- Associate of Arts Degree, Orange Coast College, 1976

Years of Experience

Total – 29

With Arcadis – 11

Professional Registration/ Certifications

- Landscape Architect – FL

Relevant Experience

Copans Transit Operations and Maintenance Facility

Pompano Beach, FL

Arcadis is the Prime Consultant for Broward County Transportation Department, providing full architectural, engineering and landscape architectural services for the complete reconstruction of the existing County Transit Operation and Maintenance Facility on Copans Road in Pompano Beach. The new campus will serve as the operating and maintaining facility of a fleet of 250 battery electric buses.

Briny Avenue Streetscape

Pompano Beach, FL

Served as landscape architect for final design, project permitting, implementation and construction administration of this 'shared street' roadway revitalization project. Consider was given to the interaction between pedestrians, bicyclists and motorists, including smart growth and urban design concepts, to create a safe and enjoyable environment for the community. Project specifics include evaluation and preservation of existing mature vegetation, compliance with local codes and ADA requirements, and the logistical coordination to blend the new and existing paving, landscaping, lighting, site amenities and utilities.

MLK Boulevard / Hammodville Road

Pompano Beach, FL

Known as the "Education Corridor" this L.A.P. funded project included the design and implementation of roadway improvements and upgrades along a ¾ mile long portion of roadway. Specifics to the Landscape Architecture requirements of this project included evaluation and preservation recommendations for existing trees, design and implementation of new median-strip landscaping, compliance with local landscape and F.D.O.T. design parameters and creating a high-end visual impact statement within the roadway.

Ultimate Sports Park

Apollo Park Improvements – Pompano Beach, FL

Provided landscape architectural services for the construction of a new synthetic turf athletic field on a vacant portion of an existing City park. New site features include a parking area, concession building, bleachers, walkways, lighting and site amenities. Landscape Architectural tasks include extensive tree evaluation and preservation efforts of the existing site trees and development of a Tree Disposition plan, design and development of an upscale but code compliant landscape plan and a corresponding irrigation plan design. Additional tasks included construction document development and permit assistance.

MSA-726 / Exchange Club Park

Pompano Beach, FL

Provided landscape architectural services to design and implement this 2-phased Vegetation Removal and Landscape / Facility Restoration plan on a 7.7 acre dual-use site adjacent to the Intracoastal Waterway. While working under the directive of the Florida Inland Navigation District (F.I.N.D.) the project design parameters consist of developing and restoring an interim passive public park while maintaining the function for the future intended use as a Maintenance Spoils Area (MSA) for potential intra-coastal dredging operations. Scope of work for Phase 1 consists of the evaluation of the existing conditions, on-site assessment of vegetation to identify, tag and document candidates for preservation or relocation, and the design and development of the proposed landscape / vegetation restoration and passive park plans, details and specifications. Phase 1 services also included bid assistance, construction monitoring and documenting of the clearing and grubbing activities, tree identification and preservation activities, progress reports and resolutions, onsite construction meetings, RFI responses and project addenda. Phase 2 scope of work consists of pre-bid assistance for the landscape / vegetation restoration aspect of the project, landscape installation assistance, construction administration and project close-out documentation.

Plan Review and Permitting Services for Community Planning and Development

City of North Miami, North Miami, FL

Provided permit application assistance, plan review, applicable zoning and code compliance services for all residential and commercial development applications. Tasks include major and minor site plan amendments and/or applications for new and existing developments, code compliance for new structures or features including

signage, fencing, parking, driveways, pools and landscaping. Additional tasks include assistance with the preparation and coordination of monthly Development Review Committee and Administrative Variance meetings, and application and code compliance and zoning verification assistance to City residents and business owners.

Lynn Financial Center Drainage and Parking Area Expansion

Boca Raton, FL

Provided landscape architectural services for the parking area expansion and drainage improvement project for this Gold LEED Certified office building. Landscape architectural services included the evaluation and preservation of the existing parking area, foundation and perimeter vegetation; tree and vegetation preservation services, new landscape, irrigation and hardscape design, City review coordination, permitting assistance and construction administration. Additional tasks included the design of a new 4' high raised privacy planter around a private patio, and the selection of nine (9) 45' tall specimen Royal Palms for relocation candidates, which also consisted of providing on-site temporary storage during construction, and coordination for final relocation into the new raised planter or parking islands. Construction administration services included synchronization of project phasing, vegetation inspections and tree protection management during construction.

Woodfield Country Club

Boca Raton, FL

Served as landscape architect for this 2.5 million dollar main entry re-design, gated entry and guard house, and roadway alignment for a high-end residential and country club community. Project included conceptual and final design of a 45-foot wide tiered fountain and plaza area, streetscape design including extensive high-end landscaping, signage, lighting and site amenities.



Sopeark Chhea, PE, LEED AP

HVAC / Plumbing

Mr. Chhea specializes in the design and engineering of heating, ventilating, and air conditioning (HVAC) systems for commercial and industrial applications. He is responsible for designs in packaged central station air handling systems, including constant and variable volume, split systems, industrial ventilation, exhaust and supply systems, laboratory systems, computer room systems, odor control systems and clean room air systems.

Education/Qualifications

- MS, Mechanical Engineer, Union College, 2007
- BS, Mechanical Engineer, Union College, 2006

Years of Experience

Total – 17

With Arcadis – 17

Professional Registration/ Certifications

- Professional Engineer – NY
- Leadership in Energy and Environment – NY

Relevant Experience

Prospect Lake WTP Enabling Works, Replacement of Existing High Service Pumps at Fiveash Water Treatment Plant (WTP)

City of Fort Lauderdale, FL

Lead Building Mechanical Engineer, This project includes the detailed design of the new High Service Pump Station (HSPS) and new Ground Above Grade Storage Tank (AGST). The scope includes 6 new horizontal split case pumps (70 MGD in total), 2 new generators, 2 new 20,000 gallons fuel tanks, and second story offices inside the new pump station building. The work also includes a 5 MG ground storage tank.

Hollywood WTP – Aeration Building Pump Station

City of Hollywood, FL

Lead Building Mechanical Engineer, for the rehabilitation of the existing Aeration Building Pump Station (Secondary Pump Station). The work included the replacement of two (2) 4,500 gpm pumps with one (1) 5,000 gpm pumps with variable frequency drives, new valves and piping. The work also includes a new electrical room.

Edgewater Pump Station Design

Bergen County Utilities Authority, Hoboken, NJ

Responsible for the design of HVAC systems and an odor control system serving the Edgewater Pump Station (PS). The PS is being constructed to eliminate the existing Water Pollution Control Facility (WPCF). HVAC systems include intake/exhaust ventilation system, ductless split systems, and electric heating systems. The odor control system consists of a dual bed carbon adsorber, grease filter mist eliminator and fiberglass exhaust fan and ductwork to treat exhaust air pulled from the bar screening and dumpster area. Perform design service during construction by reviewing shop drawing submittals and responding to request for information (RFIs).

Chelsea Headworks Facility Upgrade and Odor Control System Evaluation and Design

Massachusetts Water Resources Authority, Boston, MA

Assisted with the design of a new odor control system by determining the required exhaust air flow rate of the headworks' process emission sources.

Assisted with sizing the treatment equipment, developing mechanical layout and detailed drawings in AutoCAD MEP. Assisted with developing a high-capacity odor control system design within site constraints. Performed design service during construction by reviewing shop drawing submittals and responding to RFIs.

Hartford Water Pollution Control Facility Wet Weather Expansion

The Metropolitan District, Hartford, CT

Assisted with the design of an odor control system by determining the required exhaust air flow rate of odor sources in the plant. Developed mechanical layout and detailed drawings. Performed design service during construction by reviewing shop drawing submittals and responding to RFIs.

Cobbs Creek Reservoir Dam and Facilities Construction

County of Henrico, VA

Responsible for the design of HVAC systems serving a newly designed pump station comprised of three levels, a single-story operations building, and a fuel oil transfer system for a standby generator. HVAC systems include intake/exhaust ventilation system, ductless split systems, electric heating system, and ducted computer room air conditioning (CRAC) systems. Designed ductwork, piping and equipment layout for HVAC systems serving administrative, control equipment, mechanical, process and electrical areas based on code requirements, design criteria and calculations. Designed piping and equipment layout for a fuel oil transfer system based on code requirements, design criteria and calculations. Used Carrier Hourly Analysis Program to model and calculate the building's heat gains/ losses based on geographic location, material construction and features, orientation, and internal latent/sensible loads to size HVAC equipment. Perform design during construction services by reviewing submittals and responding to RFIs.

Raw Water Intake and Potomac Raw Water Pumping Station Project

Loudoun Water, Loudoun County, VA

Responsible for the design of HVAC systems serving a newly designed pump station comprised of two levels and a fuel oil transfer system for a standby generator. HVAC systems include intake/exhaust ventilation system, single-zone ductless split system, electric heating system, ducted computer room air conditioning (CRAC) systems with a glycol/water side economizer. Designed ductwork, piping and equipment layout for HVAC systems serving administrative, control equipment, mechanical, chemical, process and electrical

areas based on code requirements, design criteria and calculations. Designed piping and equipment layout for a fuel oil transfer system based on code requirements, design criteria and calculations. Performed value engineering and equipment life cycle cost analysis for HVAC systems. Used Carrier Hourly Analysis Program to model and calculate the building's heat gains/ losses based on geographic location, material construction and features, orientation, and internal latent/sensible loads to size HVAC equipment. Perform design during construction services by reviewing submittals and responding to RFIs.

Cedar Creek WPCP Influent Screens Facility Improvements

Nassau County Dept. of Public Works, Westbury, NY

Responsible for the design of a 100% O.A. ventilation system, serving the screening area that uses a hot water coil to temper the outside air. The new system was to replace an old existing ventilation system. Upgrades to the ventilation system involved modification to existing supply ductwork, modifications to existing odor control ductwork, replacement of an existing air handling unit, layout of hot water supply & return piping and sizing of hot water pumps. Duct pressure loss calculations were completed to verify that the existing systems were still able to operate with the new modifications and to size the new air handling unit. Pipe pressure loss calculations were also completed to size the hot water pumps. Carrier HAP was used to size the cooling/heating load requirements for spaces such as the electrical room, stairwells, etc. Perform design during construction services by reviewing submittals and responding to RFIs.

Newtown Creek Wastewater Treatment Plant

New York City Department of Environmental Protection, New York, NY

Performed design services during construction consisting of shop drawing reviews, responding to RFIs and field work. Field work includes shop witness testing for carbon absorber tanks and odor control fans to verify that the equipment was built in accordance with the requirements of the project specifications. Developed a technical memo describing the procedures for the shop witness test and results. Performed airflow testing for a section of odor control ductwork at the WWTP to determine the cause of airflow irregularities from the settling tank.



Darryl Dunn, PE

Construction Management

Mr. Dunn has served as project construction manager (PCM) as Owner's Agent for 27 years managing owner's pre-construction and construction phase projects primarily focused on water and wastewater projects including treatment plants, pump stations and pipelines. His construction management career was preceded by 18 years in general engineering including planning, directing, and performing civil engineering and design work pertaining to water and sewer utilities, pump stations, force mains, water and wastewater treatment plants. His construction management experience includes bid phase services, constructability reviews, administering construction contracts, conducting meetings, change and schedule management, quality assurance/quality control oversight, startup, commissioning plans, closeout and turnover of projects.

Education/Qualifications

- Engineering Coursework, West Georgia College and DeKalb Community College, 1977

Years of Experience

Total – 49

With Arcadis – 1

Professional Registration/ Certifications

- Professional Engineer – GA

Office Location

Birmingham, AL

Relevant Experience

Pump Station A-16

City of Fort Lauderdale, FL

Provided oversight and inspection for the construction of pump station A-16 inch high groundwater conditions, installation of approximately 2,000 LF of 30-inch High-Density Polyethylene (HDPE) watermain and 3,000-LF of 10-inch. HDPE Force Main in two horizontal directional drilling (HDD) segments along SE 3rd Avenue under the Tarpon River. The project was related to construction of the new Federal Courthouse on 3rd Ave.

Everglades Pump Station Monitoring Panel Replacement Project

South Florida Water Management District, Fort Lauderdale, FL

Provided oversight and inspection services for replacement of engine monitoring panels and devices with modern electronic equipment for five Everglades Canal Pump Stations with multiple engine-driven pumps originally installed in 1952.

Cox Creek Water Reclamation Facility (WRF) Upgrade Project

Department of Public Works, Anne Arundel County, MD

Senior PCM for the \$110 million multi-phase, multi-year upgrade of the 15-mgd WRF to 45-mgd comprising headworks improvements including two replacement bar screens, one new additional flow channel and bar screen, new screenings conveyance system, a new fine screen facility ahead of the conversion to biological nutrient removal (BNR) with owner-purchased submerged membrane bio-reactors and expanded aeration facilities. Oversaw new bar screen operation and temporary screenings conveyance during construction. Other project highlights include two new 33KV power services, three substations, return sludge pump station with up to 400% sludge return, expansion of existing aeration oxic/anoxic zone capacity by 40%, new flow distribution box, large pipe tie-ins with 50-mgd bypass pumping capability in several places during construction.

Mayo WRF Conversion Project

Department of Public Works, Anne Arundel County, MD

PCM for this unique \$40 million Mayo WRF project to de-commission an existing non-functioning wastewater treatment plant and install 5mi. of 24-inch HDD force main to the Annapolis WRF in 14 segments. Decommissioning the existing faulty treatment plant removed a decades-long sewer moratorium on the Mayo peninsula.

Jennifer Road Pump Station Replacement

Department of Public Works, Anne Arundel County, MD

PCM for the new larger capacity replacement pump station built on the extremely tight site of an existing pump station including a mile-long 18-inch force main and bounded by busy arterial roadways on two sides and a sensitive environmental area on another. Successfully defended against a differing Site Conditions claim.

Mason Farm Wastewater Treatment Plant (WWTP) Upgrade

Chapel Hill, NC

PCM for the \$40 million upgrade including a new biological filter building, new influent pump station, new 13.3KV power service and re-powering all operating equipment onsite. Interestingly, the project included an early completion bonus after meeting an interim milestone.

Brooks Road Pump Station

Gwinnett County, GA

PCM for the \$25 million construction of a new pump station designed to accommodate 50-mgd of flow but equipped initially for 6-mgd. The excavation was 50 feet deep, 30 feet of which was in hard granite rock.

Water Independence Program

Rockdale County, GA

Program/project construction manager for the \$65 million project to design and construct all new water supply, treatment and distribution facilities when the County water supply contract with an adjacent county was to expire. The County was squeezed with only 30 months to develop, design and construct its facilities. It was accomplished thru four engineering contracts and seven construction contracts including startup and commissioning.

Shenango Water Treatment Plant (WTP)

Sharon, PA

PCM for the new \$25 million Shenango WTP built on the banks of the Shenango River. The project comprised construction of a complete new water treatment plant and new raw water intake on the site of the existing water treatment plant- some parts of which were constructed in 1898.

WTP Upgrade

Allentown, PA

PCM for the \$20 million upgrade and renovation project to demolish the 10-mgd treatment train, re-purpose all its facilities and upgrade the 20-mgd train to 30-mgd. The WTP was originally built in 1927 and first upgraded in 1975.

Klines Island WWTP Upgrade

Allentown, PA

PCM for the \$25 million plant upgrade project to demolish existing Imhoff tanks originally built in 1927, construct new 150-foot-diameter Clarifiers, and return sludge pump station, new primary clarifier sludge collectors and new headworks equipment.

Blue Plains AWTF Expansion

Washington, DC

Resident engineer for the 50-mgd filter expansion at the Blue Plains AWTF on the banks of the Potomac River in Washington, DC including installation of 160 concrete displacement piles.

Water and Wastewater Design Contract

U.S. Naval Submarine Base, Kings Bay, GA

Design/project engineer for many of the 150 contract supplements developing designs and drawings for the 10%, 30%, 60%, 90% and Final design packages including improvements to the Base Area Wastewater Treatment Plant and spray irrigation system, Waterfront Wastewater Treatment Plant, Base Area Water Treatment Plant, two deep raw water wells (950 ft), Waterfront Booster Pump Station and an Industrial Waste Treatment Facility. The Industrial Waste treatment Facility project won the GWPCA award for design in 1991.



Garth White, EIT, NASSCO

Onsite Inspections

Mr. White has more than 23 years of experience specializing in civil and mechanical engineering disciplines, with a focus on construction management and oversight. His experience includes construction management and inspection, operations monitoring, cost estimating, and trend analysis for large industrial facilities and infrastructure improvement projects throughout Florida and has served in many roles on a variety of water and wastewater projects. Recent experience includes water/wastewater treatment plant rehabilitation, installation of production wells and deep injection wells, installation of above grade and underground high voltage and medium voltage cables, replacement of large diameter water transmission mains, watermain and force main aerial crossings including site restoration, trenchless pipeline restoration/replacement, and paving/drainage projects.

Education/Qualifications

- BS, Mechanical Engineer, California State University

Years of Experience

Total – 23
With Arcadis – 21

Professional Registration/ Certifications

- Engineer-in-Training (EIT)
- National Association of Sewer Service Companies

Relevant Experience

Consulting Engineer Facilities Inspection Services

Port of Miami-Dade, Miami, FL

Served as Project Consultant for the inspection of Port of Miami Facilities to meet the reporting requirements of Master Bond Ordinance 88-66. Port of Miami Facilities inspected including cruise terminals, storage facilities, parking structures, and exterior areas. Responsibilities also included development of repair and replacement cost estimates for deficient assets and development of the comprehensive deficient asset database.

Annual Inspection and Report

Miami-Dade Water and Sewer Department (MDWASD), Miami, FL

Provided condition assessments MDWASD's water and wastewater infrastructure for the purpose of characterizing the physical condition and operating condition of major asset components. Infrastructure evaluated included waste treatment facilities, water storage and remote pumping facilities, wellfields, wastewater treatment facilities, and wastewater pumping stations. Analyzed data in asset management software, Orion and Asset Hound, to generate facility inspection reports elaborating on the physical and operating conditions of system components.

Pump Station A-16 Upgrades

City of Fort Lauderdale, FL

Lead Inspector providing construction management services for the installation of approximately 2,000 LF of 30-inch HDPE watermain and 3,000 LF of 10-inch HDPE force main along SE 3rd Avenue. This project is part of the relocation of the A-16 Pump Station on SE 11th Street. The project includes two horizontal directional drilling (HDD) segments under the Tarpon River.

Escape and Valencia Force Main Pipe Bursting Improvements

City of Sunrise, FL

Construction management services related to the replacement of over 25,000 LF of aging potable polyvinyl chloride, asbestos-cement, and ductile iron water mains located in the Escape and Valencia residential neighborhood areas within the City's service area. The project also included installation of over 700 service saddles and connections to the existing residential water meters. The site restoration included installation of D curbs, roadway milling and resurfacing activities, new wheel stops and parking lot striping.

NW 44th Street/Pine Island Road Water Transmission Main Improvements

City of Sunrise Utilities Department, Sunrise, FL

Served as Lead Inspector and provided construction management services for the replacement of approximately 5,000 linear feet of 36-inch DIP water transmission main from NW 44th St to the Springtree Water Treatment Plant. This included several onsite design changes due to unforeseen conditions as a result of abandoned in-place utilities. The project activities also included close coordination with the State and County Regulatory agencies, City Utility Department and local residents. The final stage of construction activities included installation of WM/FM aerial crossing of C-13 canal, exfiltration trench on Springtree Drive, start-up of system, and roadway improvements. The roadway restoration consisted of backfilling and compacting the excavated trench with the appropriate lifts per the FDOT requirements. In addition, 13,000 square yards of asphalt milling and asphalt overlay was installed on two (2) lanes of high traffic roadway including 2,000 linear feet of F and D curbs.

Deep Injection Well Construction Management

City of Hollywood, FL

Providing mechanical engineering services and construction oversight services for the installation of a deep injection well and dual zone monitoring wells. These services include testing and regulatory reporting requirements for the large diameter high-capacity Class I injection well, designed to receive both reclaimed water and reverse osmosis concentrate.

Broward Materials Recovery Facility (MRF) Monitoring

Broward County Waste and Recycling Services, Fort Lauderdale, FL

Planned and managed an MRF residue composition analysis in order to determine the amount of program materials that are being disposed of instead of recycled. This project required a large coordination effort on my part with Broward County officials, Wheelabrator, and Waste Management. Responsible for: Preparation of a MRF residue composition analysis protocol. Scheduled residue deliveries. Presentation of policies, procedures, and safety briefings to a field team of seven temporary workers. Sorting of approximately 1,000 pounds of residue in one-day. Preparation of a cost estimate which included all components of the projects. Preparation of a final report to the client which summarized the activities and findings performed.

Environmental Compliance Audit

Miami-Dade Aviation Department (MDAD), Miami, FL

The MDAD contracted with Arcadis to perform environmental compliance audits for seven tenants to monitor tenant compliance with International Standards Organization (ISO) 14001 certification for all of its operations. As part of the audit, performed site visits at each tenant's leasehold to determine compliance in several areas, including environmental management systems; hazardous materials management pesticides management; asbestos and polychlorinated biphenyls management; solid waste management; air emissions management; water supply and wastewater management; oil pollution management; and storage tank management. The findings of the audits were summarized in a report with recommendations to address any noted deficiencies related to regulatory compliance and Best Management Practices.



Meghan Naumick, CEP, LEED GA

Cost Estimating

Mrs. Naumick has 17 years of experience in the construction industry where she has served as a Senior Principal Cost Estimator and Construction Cost Engineer. She is a highly experienced, certified construction cost estimator with the ability to prepare cost estimates throughout the life of the projects, from planning, design, and through the construction phase. She has prepared cost estimates and associated basis of estimate reports for new or rehabilitation of existing water and wastewater infrastructure and buildings throughout the United States, which includes heavy construction, civil, structural, architectural, process mechanical, plumbing, HVAC, electrical, and instrumentation and controls. She has evaluated market driven factors to determine what impact current market conditions may have on bid results. She has prepared life-cycle cost analysis during planning/study phase and value engineering to provide insights and alternative solutions.

Education/Qualifications

- BS, Civil Engineering, San Diego State University, 2008

Years of Experience

Total – 17

With Arcadis – 8

Professional Registration/ Certifications

- Certified Estimating Professional (CEP)
- LEED™ Green Associate

Relevant Experience

Replacement and Upgrade of Nanofiltration Trains at West Water Treatment Plant

City of Miramar, Miramar, FL

Developed the 90% and 100% estimate to replace nanofiltration (NF) trains, cartridge filters, and appurtenances, and upgrade the corrosion inhibitor system, sodium hypochlorite system, and membrane cleaning system.

Future Waste to Energy Facility – Siting Alternatives

Miami-Dade County – Water and Sewer Department, Miami-Dade County, FL

Developed a conceptual estimate to extend water and sewer utility lines at six different sites: Medley, Ingraham Highway Site No. 1, Ingraham Highway Site No. 2, Dolphin Expressway, Opa-Locka West Airport, and Okeechobee Road. The scope includes water main and force main (horizontal directional drilling where it crosses canal or turnpike), booster station, and lift station.

Port Everglades Interconnect Evaluation

City of Hollywood Public Utilities, Hollywood, FL

As part of the evaluation to determine if providing water to Port Everglades in the future is feasible, Meghan developed a conceptual estimate to install approximately 24,000 linear feet of water main via open-cut and horizontal directional drilling.

Project Olympus

Pratt & Whitney, Juniper, FL

Performed bid evaluation and reviewed multiple trade packages by comparing to independent cost estimates, while coordinating with the Construction Manager At-Risk, for the construction of the Host Building and Chamber.

USEPA WIFIA Reviews

US Environmental Protection Agency, several locations

As part of the support services under the Water Infrastructure Finance and Innovation Act (WIFIA), reviewed the cost estimates submitted in the Project application to assess the reasonableness of the costs relative to the work proposed to be constructed. The projects include Pure Water Program for the City of San Diego; Tillman Advanced Water Purification Facility for City of Los Angeles; Willamette Water Supply System for Tualatin Valley Water District and the City of Hillsboro, OR; Northwest Water Treatment Plant Expansion and Upgrades for County of Brunswick, NC; Donald C. North West Water Treatment Facility for City of Wichita in Kansas City.

3M-Tilton Water Recycling

3M Co., Tilton, NH

Developed a conceptual estimate to provide water recycling at the 3M paper manufacturing facility in Tilton. The scope includes equalization tank, circular clarifier, effluent tank, feed system, sludge holding tank, dewatering, pumps and piping.

City Tunnel No. 3, Stage 2, Construction of Shafts 17B-1 and 18B-1

NYC Department of Environmental Protection, New York, NY

Performed the bid evaluation. Provided estimate review, developed the basis of estimate reports, and managed the estimate submittals for Contract C547A. As part of City Tunnel No. 3, Stage 2, the construction of two new riser shafts, 17B-1 and 18B-1, are needed to fully activate the Queens and Brooklyn Tunnel (QBT). The project also includes unwatering, tunnel lining repair, and temporary ventilation and electrical system.

Facility Planning Services for Hillview Reservoir Functional Alternatives and Long Term 2 (LT2) Compliance

NYC Department of Environmental Protection, Yonkers, NY

Developed a conceptual estimate with four alternatives to upgrade the existing 900-million-gallon uncovered finished water reservoir to comply with the Long-Term 2 Enhanced Surface Water Treatment Rule (LT2) set forth by the U.S. Environmental Protection Agency under the Safe Drinking Water Act.

Eastern Orange Backup Water Pipeline

NYC Department of Environmental Protection, Orange County, NY

Developed a conceptual estimate to provide backup water pipeline to connect NYCDEP's Delaware Aqueduct (DA) to several communities in Orange County from Shaft 5A. Approximately 12 miles of 36" pipe is to be installed via open-cut and horizontal directional drill.

East Side Coastal Resiliency

New York City Department of Design and Construction, New York, NY

The East Side Coastal Resiliency project is an integrated flood protection system that is intended to reduce coastal flooding and improve coastal and social resiliency along an approximately 2.4 mile stretch of Manhattan's East River waterfront. As a cost estimator, Meghan developed an independent conceptual estimate for the two bridges project, a 100-year flood wall under FDR Drive in Lower East Side Manhattan that spans from Brooklyn Bridge to Montgomery Street. Meghan developed the preliminary estimate for interior drainage to improve the drainage infrastructure in Lower East Side by strengthening external walls, replace tide gates, provide interior concrete repair for regulators, and floodproof manholes. Meghan also developed estimates for several buildings, including Comfort Station, Tennis Building, Track Building, and Interceptor Gate Buildings.



Chris Matthews, PE, CGC

Constructability Reviews

Mr. Matthews is a Senior Construction Manager for Arcadis with more than 55 years of experience with construction projects of all sizes, from corporate headquarters for international organizations to the ultra-pure water insulation system for Sandia National Laboratory's Fast Breeder Reactor. He has worked for more than 20 years on the Engineers Joint Contract Documents Committee (EJCDC) and served three terms as Chairman. He is currently an American Council of Engineering Companies Delegate to the EJCDC, a Life Director of the Associated General Contractors of America and has held general contractor licenses in 12 states. He has owned and operated multiple private utility companies and is an Engineering Expert Witness who has worked on many cases of contract litigation and mediation, and holds a US patent for specialized concrete forming systems.

Education/Qualifications

- BSME Nuclear Engineering, University of Alabama, 1973

Years of Experience

Total – 55
With Arcadis - 13

Professional Registration/ Certifications

- Professional Engineer – AL, FL, GA, LA, MD, MS
- Certified General Contractor – FL
- Certified Mechanical Contractor – FL
- Expert Witness, American Council of Engineering Companies Certification

Relevant Experience

CM Services

South Florida Water Management District (SFWMD), West Palm Beach, FL

Managed multiple CM projects for the SFWMD. Projects include North New River Canal Upgrade (\$79 million), Corbett Levee Extension Phase II (\$9 million) and SCADA Monitoring Panel and Pump Station Upgrades (\$17 million). These projects are ongoing and located in Palm Beach and Broward Counties. The work consists of electrical and instrumentation as well as heavy excavation and earth movement, dredging and protection of surrounding water areas.

CM Services

Sarasota County, FL

Oversight of multiple CM and CEI projects for Fort Lauderdale, FL. Projects include PS A16 renovation and force main extension, 42" Water Main installation and 48" Sewer Main Installation. These projects are located in the congested areas of central Fort Lauderdale and include large diameter horizontally drilled piping installation as well as open cut large diameter pipe installation.

CEI Services

Pasco County, FL

Managed CEI projects for Pasco County: Shady Hills Clarifier structural repairs and rehab. Negotiated change orders and delay issues due to unknown conditions encountered.

CM Services

City of Lakeland, FL

Managed investigation into completed DB Contract for Schneider Electric Buildings project for City of Lakeland: Investigation of performance issues for sludge management and installed Piping and Generator.

Sod Run Wastewater Treatment Plant (WWTP)

Harford County, MD

Construction Manager for Enhanced Nutrient Removal (ENR) addition at the Sod Run WWTP which was rated at 20-million gallon per day (mgd) dry-weather flow and 50-mgd wet-weather flow. The ENR program was implemented in new facilities to meet the new and future waste load allocation for its discharge into Bush River. The scope of work for the program Harford included total phosphorus and nitrogen control improvements, new methanol addition facility, effluent filtration addition, main plant switchgear improvements, final clarifier upgrades, aeration system upgrades, return activated sludge pumping upgrades, bio-augmentation and new fermentation tanks and pumping facilities.

Bush Creek Pumping Station and Force Main

Harford County, MD

Construction Manager responsible for the construction management for the improvements to the existing Bush Creek Pump Station, Force Main, and the up-stream and downstream gravity sewers.

Broadneck Water Reclamation Facility (WRF) ENR Upgrade

Anne Arundel County, Churchton, MD

Project Manager for nutrient reduction addition at the Broadneck Water Reclamation Facility. Broadneck is rated at 2-mgd dry weather flow and 10-mgd wet-weather flow. The nutrient reduction program implemented in new facilities to meet the new and future waste load allocation for its discharge into Chesapeake Bay.

Watershed Operations Building and Storage Yard

Peyton Center WSM, Atlanta, Georgia, GA

Project Manager for the City of Atlanta's new Watershed Operations Building and Storage Yard under a fast-track design-build delivery. This project included the preparation of bridging documents, space planning, monitoring the Leadership in Energy and Environmental Design progress, selecting a design-build contractor and monitoring the construction of the new facility of all existing equipment at each intersection that were completed and uploaded to a city accessible database. Responsibilities included coordinating architectural/engineering services throughout the project.

Water Distribution System Improvements

City of Annapolis, MD

Project Manager is responsible for the quality assurance and construction contract administration on the five-year

Task Order Contract for water distribution repairs and improvements. Projects included location, investigation and replacement of water mains and appurtenances throughout the County Distribution System. The sum of task values was up to \$1.2 million per year.

Anne Arundel County Patuxent WRF

Anne Arundel County, Crofton, MD

Project Manager in the Arcadis' contract consisted of construction management and inspection services during the construction of all necessary modifications to expand the Patuxent (WRF) facility from 7.5-mgd to 11.6-mgd.

Construction Management and Inspection (CMI)

Anne Arundel County, Annapolis, MD

Project Manager for open-ended CMI of various water distribution system improvements including repairs, replacement, and lining.

City of Atlanta Architectural/Engineering Task Order Contract

City of Atlanta, GA

Area Manager for the construction management for multiple field tasks issued under the City's architectural/engineering contract.

Schneider Electric Engine Control Module

City of Atlanta, GA

Project Manager for this design-build, Energy Conservation Project which implemented several process changes to the South River and Utoy WRF for the City of Atlanta. This project involved the design and construction management of changes to several processes at these plants. The major changes included the rehabilitation of two 100-foot diameter digesters and associated equipment, installation of new ultraviolet disinfection units, installation of new thickener units and installation of ammonia based automatic control systems for aeration basins.



Celine Hyer, PE, IAM

Asset Management

Ms. Hyer has previously worked on the WASD Asset Management Framework project and is currently engaged in the Integrated Master Plan project to support the renewal and replacement planning of all assets including lift stations, sewer mains and wastewater treatment facilities. This gives her unique qualifications, insights and institutional information that can be immediately applied to the CMOM project. Celine has over 35 years of combined experience working as a utility and as a consultant on implementing asset management programs. She has supported the planning, prioritization and implementation of numerous risk-based capital plans across the country, including large utilities such as NYCDEP, San Diego Water, DC Water, and San Antonio Water with a combined value of over \$7 billion dollars. These projects have included condition and risk assessments for wastewater treatment plants, pumping stations and pipe assets. Her comprehensive programs have included strategic planning, service level development, risk assessment, capital planning prioritization using business cases and life-cycle costs to select the best project alternatives and prioritize the right projects to spend dollars on at the right time, and long-term funding needs analysis. Ms. Hyer currently serves as the AWWA Asset Management Committee Chair where she collaborates to share national best practices. She also is a member of the ASCE Committee on America's Infrastructure producing the water and sewer national reports cards for 2025 and leads their asset management division.

Education/Qualifications

- MS, Engineering Management, Florida Institute of Technology, 1989
- BS, Chemical Engineering, Florida Institute of Technology, 1988

Years of Experience

Total – 35
With Arcadis - 18

Professional Registration/ Certifications

- Professional Engineer – FL
- IAM Certificate – Institute of Asset Management

Relevant Experience

Asset Management Framework Design

Miami Dade Water and Sewer Department, Miami, FL

Technical Lead to conduct a gap analysis of asset management practices across the organization compared to industry standard frameworks such as the Water Environment Research Foundation (WERF) and ISO 55000 Frameworks. The gap analysis included significant staff interviews, data and procedure documents review as well as an in depth look at the IT systems supporting asset management such as GIS and CMMS. Once the gap analysis was completed the team created the “to be processes” and prioritized roadmap over time to meet best practices within the next 5 to 7 years. SOP's for key asset management practices were also outlined for future implementation. Phase II of the project is anticipated to close the high priority gaps.

Integrated Master Plan

Miami Dade Water and Sewer Department, Miami, FL

Technical Support for developing project prioritization criteria and condition and risk scores for the water, sewer and recycled water assets to determine the

renewal and replacement needs over the next 20 years. Evaluations will be made through desktop evaluations leveraging existing data sources.

Asset Management Implementation Phase I and II

Toho Water Authority, Kissimmee, FL

Program manager for asset management program implementation work for the overall asset management program since 2009. Tasks included establishing asset hierarchy and definitions, performance measures, performing inventory, condition, and risk assessments of 15 water and wastewater treatment plant and 300 lift station assets, creating procedures for prioritizing capital projects, analyzing asset criticality and consequence of failure and modifications to Infor EAM CMMS to produce capital planning reports and Service Level KPIs. Phase II task activities included writing a strategic asset management plan (SAMP) that included a gap analysis using the IAM SAM+ tool, prepared a detailed roadmap for improvements and defined program governance. Phase II also included preparing individual asset management plans (AMPs) with AMPs completed for gravity sewer and force mains, and wastewater pumping stations which were submitted to FDEP as part of a consent decree requirement. These AMPs evaluate condition and risk and define strategies to address high risk and poor condition assets through maintenance and capital programs as well as define tactical key performance measures to assist in meeting level of service goals defined in the SAMP.

Sewer Management Program

ECUA, Pensacola FL

Technical Advisor. Force main condition and risk assessment and capital planning portion of the ECUA Sewer Program. Work included desktop assessments based on pipeline age, attributes and failure history, and field condition assessments including Xylem SmartBall for gas pocket identification, Broadband Electromagnetic pipe wall thickness measurements for metallic pipe, and transient pressure monitoring to understand PVC pipeline fatigue and probability of failure. The proposed capital improvement program identified about \$35-\$40M in projects that needed to be completed in the next 5 years.

Project Prioritization and Asset Management

New York City Department of Environmental Protection, New York, NY

Technical Advisor for the condition and risk assessment of assets covering water, wastewater, stormwater, and all facilities owned and operated by NYCDEP, including over 80,000 equipment assets at treatment and pumping

facilities and 200,000 pipe assets, including water, sewer and stormwater mains. The outcome of the data collection and evaluation was a 4- and 10-year capital plan for renewal and replacement of assets based on risk and remaining life. Business case templates and prioritization using a custom Arcadis-designed tool facilitated the CIP creation. Guidelines documents, tools and staff training have allowed NYCDEP staff to make this an ongoing program. Tools included a custom asset management information system that stored all risk data and created business cases and CMMS. Phase III was recently completed and included updates the CIP through new risk assessment and business cases for treatment plant and pumping assets, an update to the condition and risk assessment methodology to align with the recently published New York State Asset Management Guidance Document and leverage CMMS maintenance data, maintenance program effectiveness reviews, life cycle cost evaluation SOP, and ongoing training for staff. Phase IV is about to be underway to develop SOPs for Asset Configuration Management and provide staff training to support CMMS enhancements.

Large Diameter Pipeline Evaluation Program

JEA, Jacksonville FL

Program manager to manage all aspects of over 900 miles of large diameter water, gravity, and force main pipelines for risk assessment, capital program development, conceptual design, and management of final design and construction over a five-year period. The risk assessment includes GIS analysis of existing data and field condition assessment services including CCTV, sonar, Smartball acoustic gas pocket analysis, Echologics e-Pulse acoustic pipe wall thickness testing, Hydromax p-CAT pressure wave pipe wall thickness testing, Broadband Electromagnetic wall thickness assessment, UT testing and soil corrosivity surveys. Additional studies included I&I evaluations, air release valve inspection and replacement program development, force main redundancy evaluations, and CMMS improvements support. The initial risk based Five-Year Capital Plan included the identification of over 40 projects at a value of approximately \$120M for the pipeline renewals.



Melissa Pomales, PE, ENV SP, PMP, IAM

Principal Utility Budget and Capital Planning

Ms. Pomales is a south Florida-based licensed Professional Civil Engineer and Project Management Professional with a diverse range of experience in program and project management, asset management utility consulting and business advisory, procurement and strategic planning, feasibility analyses, funding strategies, planning, and design. She brings many years of experience working on program management for large-scale resiliency, risk, energy management, and emergency response projects in addition to managing Arcadis-led projects in the tri-county area. Ms. Pomales is the Florida Area Leader for Arcadis' Resilience-Water Business Area.

Education/Qualifications

- MS, Finance, Indiana University Bloomington, 2014
- MBA, Indiana University Bloomington, 2014
- MS, Civil Engineering, Cornell University, 2004
- BS, Civil Engineering, Cornell University, 2003

Years of Experience

Total – 21

With Arcadis – 19

Professional Registrations/ Certifications

- Professional Engineer – FL, PR
- Project Management Professional
- Institute of Asset Management
- Envision Sustainability Professional
- Lean Six Sigma Sensei

Relevant Skills & Qualifications

- Project / Program Management
- Asset Management
- Utility Risk & Resilience Assessments
- Financial Services
- Business Advisory
- Strategic Planning

Relevant Experience

Asset Management Framework Development

Miami-Dade Water and Sewer Department, Miami, FL

Project manager for the development of an enterprise-wide Asset Management (AM) Framework to implement across water and sewer with optimized business practices, an effective technology portfolio and high-level organizational awareness for staff knowledge and training.

Hurricane Sandy Recovery and Resiliency Portfolio Project Controls

NYC Mayor's Office of Recovery and Resiliency (ORR), New York, NY

Project manager responsible for embedded team within the New York City Mayor's Office of Recovery and Resiliency charged with providing monitoring and oversight services of the recovery and resiliency program, totaling over 1,000 projects with a combined program budget of \$23 billion. Managed a team of five full-time and eight part-time (remote) employees. Supported client in development of strategy and plan for transitioning program tracking, controls and monitoring activities to internal ORR team.

Risk and Resilience Assessments and Emergency Response Plans

Puerto Rico Aqueduct and Sewer Authority, San Juan, PR

Project manager and QA/QC lead for the completion of risk and resilience assessments and emergency response plans for PRASA's 98 water systems in support of compliance with America's Water Infrastructure Act of 2018. Managed a 20+ team and coordinated with over 30 client staff members through collaborative workshops, surveys and formal review and QA/QC process.

Comprehensive Energy Management Program Development

Puerto Rico Aqueduct and Sewer Authority, Puerto Rico

Project manager for the development of PRASA's Comprehensive Energy Management Program. Managed procurement efforts for power purchase agreements and energy performance contracts. Led team in the development of due diligence and strategy development for regional operational initiatives. Supported PRASA in all interagency and stakeholder communication and engagement efforts.

Engineering Services, Water Resources Engineering City of Tallahassee, FL

Account Leader, Advisor, and QA/QC support for various task orders under this continuing services agreement, including preparation of the 20-year water Master Plan update, Wells 26 and 23 operational evaluations and Well 23 Pilot Study and Treatment Design.

Program Management Consulting/Bond Engineer Puerto Rico Aqueduct and Sewer Authority, Puerto Rico

Program manager of consulting/bond engineer annual responsibilities, including deliverables as per Master Agreement of Trust with bondholders including Asset Condition Reports, Consulting Engineering Reports, and Annual Budget and Cash Disbursement Reports. Supported bond issuances exceeding \$5 billion.

Wastewater Pump Station Asset Management and Master Plan

City of Plant City, FL

Quality assurance and capital planning task technical advisor for asset management activities and development of a wastewater pump station master plan, which included condition assessment and process evaluation of pump stations and force mains.

Asset Management Program Development and Staff Augmentation

Toho Water Authority, Kissimmee, FL

Business process mapping lead and QA/QC support for development of an asset management program, and development of standards to support operational and financial goals.

P3 for Automated Metering Infrastructure and Customer Service Optimization

Puerto Rico Aqueduct and Sewer Authority, San Juan, Puerto Rico

Project Manager and Lead Technical Consultant for the development of a public-private partnership to optimize customer services and deploy an Automated Metering Infrastructure program.

Planning, Engineering and Environmental Services for San Francisco Seawall Earthquake Safety and Disaster Prevention Program

Port of San Francisco, San Francisco, CA

Program controls leader responsible for the Seawall earthquake and resilience program, providing program-wide schedule, budget, contract administration and oversight for the development of initial \$400M+ resilience and strengthening program.

Program Management Framework Development

Los Angeles Department of Water and Power, CA

Technical Expert for the development of a framework and implementation roadmap for Program Management. Evaluated current project and program management practices for the water system, facilitated workshops and interviews with staff, and in process of developing guidelines and SOPs and implementing a pilot to assess and review the framework.

Risk and Resilience Assessments and Emergency Response Plans

City of Hollywood, FL

Technical advisor for the development and update of a risk and resilience assessment and emergency response plan for water system utilities in support of compliance with America's Water Infrastructure Act of 2018.

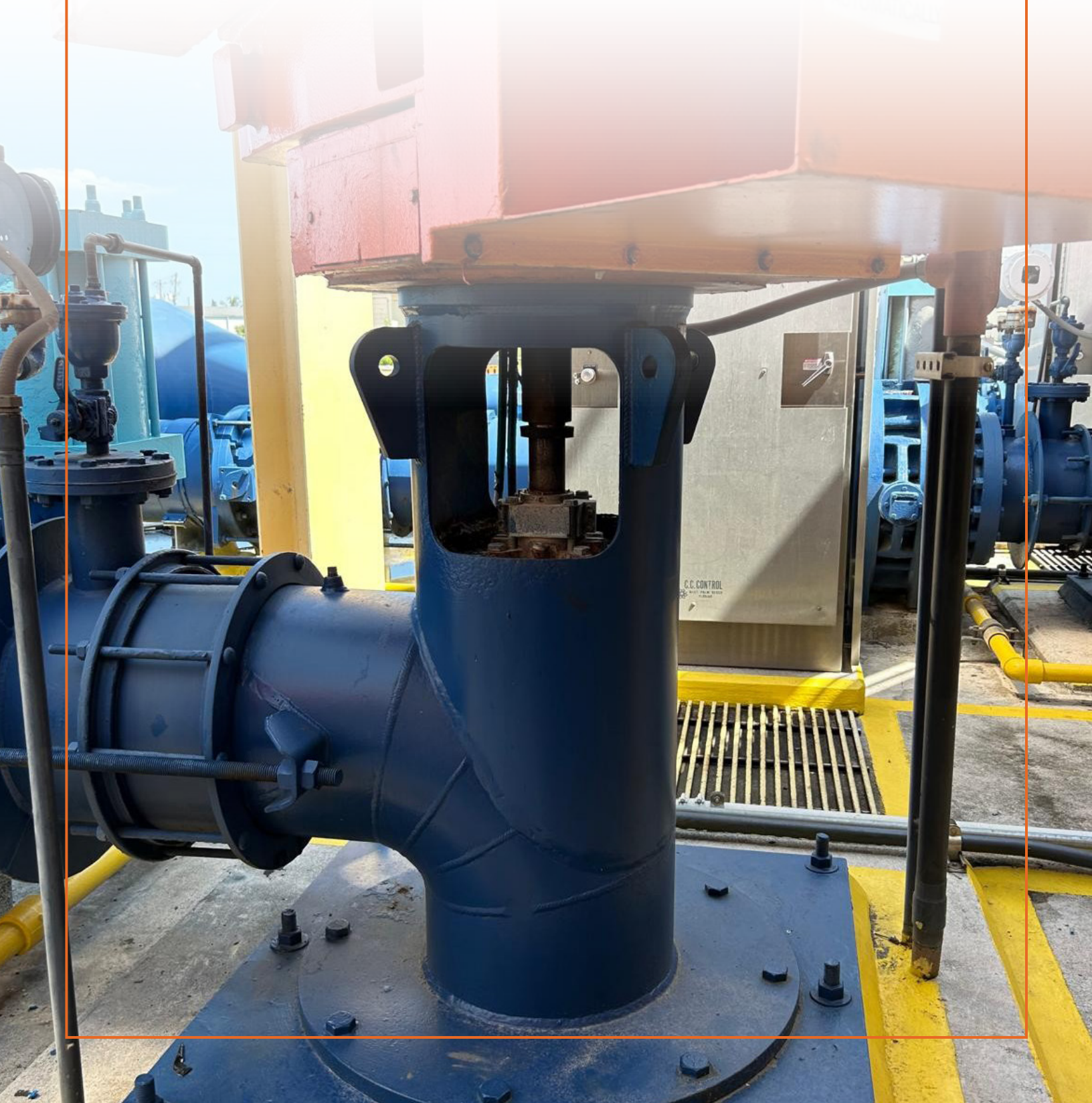
Risk and Resilience Assessments and Emergency Response Plans

Indian River County, FL

Technical advisor for the development and update of a risk and resilience assessment and emergency response plan for water system utilities in support of compliance with America's Water Infrastructure Act of 2018.



Section 08. Office Locations



08. Office Locations

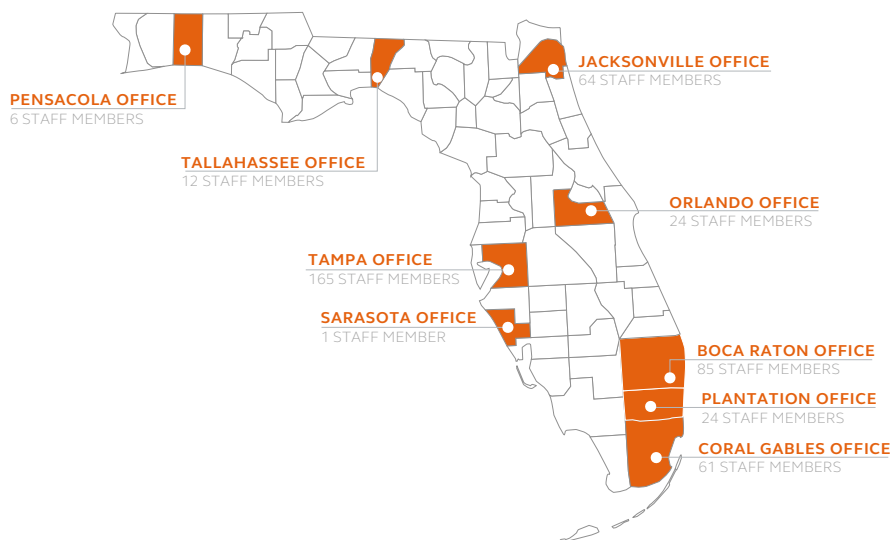
With approximately 7,000 U.S. professionals and support personnel, and **more than 400 staff members in the State of Florida**, Arcadis has the capacity to provide the resources necessary to meet any of the City's objectives for this contract. **This contract will be managed from our office in Plantation, FL.**

Prime Office Location

150 S. Pine Island Rd., Suite 315
PLANTATION, FL 33324 | PH: (954) 761-3460
24 Staff Members

Tri-County Support Offices

7000 North Federal Hwy. BOCA RATON, FL 33487 PH: (561) 393-6555 85 Staff Members	2811 Ponce de Leon Blvd., Ste. 200 CORAL GABLES, FL 33134 PH: (888) 492-2762 61 Staff Members
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Arcadis at a Glance

Worldwide



36,000 +
Staff



30+
Countries

United States



7,000 +
Staff



130 +
Offices

Our Florida practice is supported by over 440+ professionals among 9 Florida offices. Arcadis has performed a thorough review of resources in the State so that local knowledge and established local relationships can be leveraged to bring the City exemplary services.

Subconsultant Office Locations

KEITH

301 E Atlantic Blvd, **POMPANO BEACH, FL 33060**

Javier Bidot & Assoc.

2385 NW Executive Center Dr. #100, **BOCA RATON, FL 33431**

Dickey Consulting

1033 Sistrunk Blvd, Ste. 206, **FORT LAUDERDALE, FL 33311**

Federal Engineering & Testing

3370 NE 5th Ave., **OAKLAND PARK, FL 33334**

A Local, Responsive Team

Arcadis' Plantation office (Broward County) is a short 25-minute drive from the City's offices. Our local City of Pompano Beach subconsultant partner KEITH, is located within 1 mile (5-minute drive) from the City's offices. The Arcadis team is committed to respond quickly and efficiently to all the City's needs under this contract.



Section 09. Litigation



09. Litigation

Arcadis U.S., Inc., and its related and affiliated North American entities (collectively, “Arcadis”), has various legal proceedings pending at any given time. Such claims are disputed and not reasonably expected to be adversely determined, applicable insurance is available, and/or such claims are not reasonably expected to materially impact the financial condition or the operations of Arcadis, nor will they affect Arcadis’ ability to fully perform the applicable services. These occurrences represent a nominal percentage of Arcadis’ total projects at a frequency understood to be commensurate with or below industry standards for companies of similar size doing projects of similar type and volume. Please see attached Litigation History.

ARCADIS		Updated		Q1 2025				
The following is a summary of requested litigation for the preceding five years. Such claims are disputed and not reasonably expected to be adversely determined, applicable insurance is available, and/or such claims are not reasonably expected to materially impact the financial condition or the operations of Arcadis.								
Plaintiff	Defendant (Arcadis Affiliate)	Date Suit Filed	Nature of Incident	Type of Claim	Jurisdiction	Business Line	Government Claim (Y/N)	Resolution 1 = Case Ongoing 2 = Dismissal 3 = Resolved/Settled 4 = Judgment 5 = N/A
Schuller Contractors, Inc.	Arcadis U.S., Inc.	Jan-25	Plaintiff claim personal injury due to negligent traffic pattern direction in construction zone.	Prof. Liability	Orange Cnty, FL	Water	N	1
Kessler, Jayne	Arcadis U.S., Inc. (FKA The Rise Group, LLC)	Nov-24	Plaintiff claims personal injury at project site.	General Liability	Cook County, IL	Places	N	1
CPL Architects, Engineers, Landscape Architect, D.P.C.	Arcadis U.S., Inc.	Apr-24	Plaintiff claiming breach of contract.	Prof. Liability	Gwinnett	Mobily	N	3
Belanger, David	Arcadis U.S., Inc.	Jan-24	Plaintiff claims personal injury for failure to maintain safe work area	General Liability	Juneau, AK	Places	N	1
Walbridge	Arcadis G&M of North Carolina, Inc.	Jan-24	Plaintiff alleges project did not meet design requirements and claiming damages for redesign.	Prof. Liability	TBD	Places	N	3
Sicilian, Paul	Arcadis U.S., Inc. / Elevated Solutions JV	Nov-23	Plaintiff claiming personal injury caused by exposure to epoxy.	General Liability	Cook County, IL	Mobily	N	1
Romero and Olmos	Arcadis U.S., Inc.	Sep-23	Motor vehicle accident between Plaintiffs and Arcadis vehicle operated by employee.	General Liability	Middlesex, NJ	Env	N	1
Hiestand	Arcadis U.S., Inc. / Elevated Solutions JV	Aug-23	Plaintiff claims personal injury for failure to maintain safe work area.	General Liability	Cook County, IL	Mobily	N	1
Robert Rivers	Arcadis CE	Jun-23	Plaintiff claiming personal injury at project site due to trip and fall.	General Liability	New York	Water	N	1
Arcadis US	USACE NDNODS	Apr-23	Appeal before Armed Services Board of Contract Appeals of COFD's decision denying Plaintiff's claim regarding differing site conditions/cardinal change under Contract Order No. WD912DR18F0689	Appeal	ASBCA	Env	Y	3
Jean, Javon	Arcadis U.S., Inc.	Feb-23	Plaintiff claiming personal injury at property allegedly owned by Arcadis in NY. Arcadis does not own the property. Subsequent third party action filed by Defendant Alliance Energy against Arcadis seeking indemnification and defense.	General Liability	Kings Cnty, NY	Env	N	1
Mello Construction (Stop & Shop)	Arcadis of NY, Inc.	Jan-23	Third party complaint seeking indemnification and defense due to allegations of personal injury on job site.	General Liability	New York	Env	N	1
Dulcio, Mark	Arcadis U.S., Inc.	Jan-23	Plaintiff is alleging violations of Federal, State and Local laws and seeking damages.	Prof. Liability	Fed. Dist. Ct. - S.D. Fla.	Env	N	1
Garnett, Brian	Arcadis U.S., Inc.	Aug-22	Plaintiff alleges insufficient surveying services provided by Chesapeake Bay Site Solutions, Inc. owned by former Arcadis employee	Prof. Liability	Virginia Beach, VA	Water	N	2
Griffin, et al.	Arcadis U.S., Inc.	Aug-22	Plaintiff alleges breach of fiduciary duty, interference with contract, implied contractual indemnity, and unfair competition.	Other	Los Angeles Cnty, CA	Places	N	1
Hyland, Kevin	Arcadis U.S., Inc.	Jun-22	Plaintiff alleges personal injury at project site	General Liability	Mahoning County, OH	Water	N	3
Asif, Mahmood	Arcadis Canada Inc.	Apr-22	Plaintiff claiming personal injury at project site	General Liability	Canada		N	1
Tompkins	Arcadis U.S., Inc.	Apr-22	Plaintiff alleges negligence at project site resulting in serious injury	Prof. Liability	Allen Cnty, IN	Water	N	1
Ayala-Hinkle, Prince	Arcadis U.S., Inc.	Apr-22	Plaintiff alleges negligence at project site resulting in physical, mental, and emotional well-being	Prof. Liability	Sacramento Cnty, CA	Env	N	1
Commonwealth Edison	Arcadis U.S., Inc.	Feb-22	Plaintiff filed claim for damages due to utility strike	General Liability	Cook County, IL	Env	N	3
Tucker, Jerry	Arcadis U.S., Inc.	Nov-21	Plaintiff alleges personal injury due to trip and fall at Hillairy Avenue project site	General Liability	Morris Cnty, NJ	Env	N	3
BHC	Arcadis U.S., Inc. / Arcadis CE	Nov-21	Plaintiff claim is for damages and injunctive relief alleging Defendants were substantial factors causing and/or contributing to the Woodsey Fire in 2018	Prof. Liability	Los Angeles Cnty, CA	Env	N	2
Edgewater Pearl Cond Assoc.	Arcadis U.S., Inc.	Aug-21	Plaintiff alleges negligence in consulting related to contamination of soils	General Liability	Bergen Cnty, NJ	Env	N	1
Greenberg, Solomon	Arcadis U.S., Inc.	Jul-21	Plaintiff alleges injury due to trip and fall	General Liability	Palm Beach Cnty, FL	Infra	N	2
NYCDEP	Arcadis of NY / AECOM JV	Jun-11	Plaintiff alleges damages due to schedule delays, breach of contract and design errors	Breach of Contract	New York, NY	Water	N	1
Cameron et al.	Arcadis U.S., Inc. / Arcadis G&M of NC	Jun-21	Plaintiffs as employees of the City of Durham's Waste Management Department alleged exposure to hazardous levels of arsenic and lead	Prof. Liability	Durham, NC	Env	N	3
Aguirre, Jacquelyn	Arcadis U.S., Inc.	Apr-21	Plaintiff alleges wrongful death due to failure to maintain premises in a safe condition	Prof. Liability	Fresno, CA	Infra	N	2
Helwig, Tonya	Arcadis U.S., Inc.	Apr-21	Plaintiff alleges a personal injury due to a slip and fall	General Liability	Philadelphia, PA	Env	N	3
Bagley	Arcadis U.S., Inc.	Feb-21	The estate of Justin Bagley alleges wrongful death claims	General Liability	Clayton County, GA	Infra	N	1
Gonzalez	CTR Joint Venture	Dec-20	Plaintiff alleges personal injury as a result of a fall from bicycle in construction zone	General Liability	Cook County, IL	Water	N	3
Gallagher	Arcadis U.S., Inc.	Oct-20	Plaintiff alleges personal injury due to failure to maintain premises in a safe condition	General Liability	San Diego, CA	Infra	N	3
Perez	Arcadis U.S., Inc. / Arcadis CE	Oct-20	Plaintiff alleges failure to maintain premises in a safe condition.	General Liability	New York, NY	Water	N	3
Hunter/Patterson	Arcadis U.S., Inc.	Sep-20	Plaintiff alleges negligence against Arcadis, as GDOT's contractor, regarding incident related to automobile accident	Prof. Liability	Fulton Cnty, GA	Infra	N	3
City of San Diego	Arcadis U.S., Inc.	Aug-20	Third party complaint claiming contribution and indemnification in connection with underlying personal injury claim (Heather Myers v The City of San Diego)	General Liability	San Diego, CA	Infra	N	3
K.K. Machine Co., Inc.	Arcadis U.S., Inc.	Jul-20	Plaintiff claims negligence resulting in structural damages to business property during adjacent sewer project	Prof. Liability	Queens Cnty, NY	Water	N	1
Mehl, Sarah	Arcadis U.S., Inc.	Apr-20	Former employee alleges wrongful termination and disability discrimination	Employment	San Francisco, CA	Corp	N	3
Stryker Demolition	Arcadis U.S., Inc.	Mar-20	Plaintiff claims breach of contract and unjust enrichment	Breach of Contract	DE	Env	N	3
Posley, Donetia	Arcadis U.S., Inc.	Mar-20	Plaintiff claims negligence against Arcadis as engineer of record regarding incident related to automobile accident	Prof. Liability	Duval County, FL	Infra	N	3
Johnson, Robert	Arcadis of NY Inc.	Feb-20	Plaintiff filed suit against the City of New York for personal injury and Arcadis is now a separately named Defendant	General Liability	Queens Cnty, NY	Env	N	3
City of Chicago	The Rise Group and Arcadis US	Feb-20	Client's 3rd party claim for contribution in underlying claim against client for negligence (Hernandez v. CTR JV)	General Liability	Cook Cnty, IL	Water	N	3



Section 10.

City Forms & Other Required Information

In this section we have provided:

- **Qualifications of Bidders Form**
- **Proposer Information Form**
- **W-9**
- **Tier 1 / Tier 2 Local Business Form**
- **Local Business Participation Form**
- **Reviewed and Audited Financial Statements (confidential)**
- **Insurance Certificates**



About Arcadis

Arcadis is the leading global design and consultancy firm for natural and built assets. Applying our deep market sector insights and collective design, consultancy, engineering, project and management services we work in partnership with our clients to deliver exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets. We are more than 36,000 people, active in over 30 countries that generate over \$5 billion in revenues. We support UN-Habitat with knowledge and expertise to improve the quality of life in rapidly growing cities around the world.

www.arcadis.com

Supporting our clients in their quest to become Fit-for-Future.

Utilities must plan for unprecedented scenarios while navigating a changing workforce, but where should leaders focus?

Use the QR code below to explore the five fundamentals of becoming a fit-for-future water utility and the common thread that unites them.



Arcadis. Improving quality of life

04. Project Team Form

PROJECT TEAM

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

RFQ # 25-072 Name: Water and Reuse Treatment Plant Projects - Continuing Contracts (CCNA)
Federal I.D. # 57-0373224

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Project Manager	Diego Barrios, PE	16	BS, Mechanical Engineering, Central University of Venezuela, 2008
Principal-In-Charge	Leah Richter, PE	29	MS, Civil Engineering, Florida Atlantic University, 2002 / BS, Environmental Engineering, University of Florida, 1997
Treatment Planning QA/QC	Rebecca Slabaugh, PE	18	MS, Environmental Engineering, Virginia Polytechnic Institute and State University, 2007/ BS, Civil Engineering, Purdue University, 2005
Treatment Planning QA/QC	Guy Le Patourel, PE, DBIA	40	BS, Civil Engineering, University of Cape Town, 1980
Membrane Technology (RO/NF)	Michael Pilutti, PE	32	BS, Civil Engineering Youngstown State University, 1993
PFAS	Amanda Berger	26	Environmental Science & Biology, University of Wisconsin-Oshkosh, 2010 / Chemical Engineering, Tennessee Technological University, 1998
Lime Softening	Sean Chaparro, PE	24	MS, Environmental Engineering, University of Wisconsin-Madison, 2002 / BS, Environmental Engineering, Michigan Technological University, 2000
Chemicals System	Stephanie Bishop, PE	35	BS, Environmental Engineering, University of Central Florida, 1988
Supply Wells and Groundwater	Martha Wulfange, PG	27	MS, Hydrogeology, Colorado School of Mines, 2017 / BS, Geology, University of California, Santa Barbara, 1998
Process Modeling	Chris Adams, PE	25	BS, Civil Engineering, Georgia Institute of Technology, 2000
Pumping Systems	Brian Duane, PE	43	BS, Mechanical Engineering, Georgia Institute of Technology, 1981
Electrical	Eric Battle, PE	17	BS, Electrical Engineering, Virginia Commonwealth University, 2004
Controls / SCADA	Inna Hely, PE	21	BS, Electrical Engineering, Boston University, 2004
HVAC / Plumbing	Sopeark Chhea, PE, LEED	17	MS, Mechanical Engineer, Union College, 2007 / BS, Mechanical Engineer, Union College, 2006
Structural	Donnell Duncan, PE	22	MS, Civil Engineering, Georgia Institute of Technology, 2003 / BS, Applied Physics, Morehouse College, 2002 / BS, Civil Engineering, Georgia Institute of Technology, 2002
Site Civil	Patricia Ramudo, PE, LEED AP	41	MS, Hydraulics & Hydrology, Cornell University, 1983 / BS, Civil Engineering, University of Miami, 1979
Site Civil	Jose Custodio, PE	16	ME, Construction Engineering, Polytechnic University of PR, 2013 / BS, Civil Engineering, Polytechnic University of PR, 2010

04. Project Team Form

PROJECT TEAM

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

RFQ # 25-072 Name: Water and Reuse Treatment Plant Projects - Continuing Contracts (CCNA)

Federal I.D. # 57-0373224

PRIME

Role	Name of Individual Assigned to Project	No. of Years Experience	Education, Degrees
Architecture	Errol Dawkins, RA, LEED BD+C	37	Bachelor of Architecture, CUNY City College, 1989 / BS Architecture, CUNY City College, 1988
Landscape Architecture	Debra Hernandez, RLA	29	"Certificate of Landscape Architecture, University of California - Irvine, 1996 "
Construction Management	Darryl Dunn, PE	49	Engineering Coursework, West Georgia College and DeKalb Community College, 1977
Onsite Inspections	Garth White, EI, NASSCO	23	BS, Mechanical Engineer, California State University
Cost Estimating	Meghan Naumick, PE	17	BS, Civil Engineering, San Diego State University, 2008
Constructability Reviews	Chris Matthews, PE	55	BSME Nuclear Engineering, University of Alabama, 1973
Reuse and Effluent Disposal	Kurt Kinney, PE, CPM	12	BS, Food, Agriculture, and Biological Engineering, The Ohio State University, 2014
Asset Management	Celine Hyer, PE, IAM	35	MS, Engineering Management, Florida Institute of Technology, 1989 / BS, Chemical Engineering, Florida Institute of Technology, 1988
Asset Management	Greg Osthus, PE, IAM	36	MS, Environmental Engineering, Manhattan College, 1994 / BS, Civil Engineering, University of Massachusetts, 1987
GIS / Geospatial Analysis	Kristyn McClure	8	MS, Geographic Information Sciences / BS, Environmental Science
Utility Budget and Capital Planning	Melissa L. Pomales, PE, ENV SP, PMP	22	MS, Finance, Indiana University Bloomington, 2014 / MBA, Indiana University Bloomington, 2014 / MS, Civil Engineering, Cornell University, 2004 / BS, Civil Engineering, Cornell University, 2003

Subconsultants

Role	Company/Firm Name & Address of Office Handling the Project	Name of Individual Assigned to the Project
Surveying/SUE	KEITH 301 E. Atlantic Blvd. Pompano Beach, FL 33060	Chuck Schramm, PSM (Survey) Mark Mitchell (SUE)
Surveying	Javier Bidot & Assoc 2385 NW Executive Center Dr #100 Boca Raton, FL 33431	Carlos Lebron, PLS Javier Bidot, PLS
Public Outreach	Dickey Consulting 1033 Sistrunk Blvd, Ste 206 Fort Lauderdale, FL 33311	Sheryl Dickey Dana Gelman
Geotechnical Engineering	Federal Engineering & Testing 3370 NE 5th Ave. Oakland Park, FL 33334	Keith LeBlanc, PE

Request for Taxpayer Identification Number and Certification

Go to www.irs.gov/FormW9 for instructions and the latest information.

**Give form to the
requester. Do not
send to the IRS.**

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See Specific Instructions on page 3.	1	Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.) ARCADIS U.S., INC.	
	2	Business name/disregarded entity name, if different from above.	
	3a	Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only one of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor <input checked="" type="checkbox"/> C corporation <input type="checkbox"/> S corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) _____	4
			Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) <u>5</u> Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) <u>E</u> <i>(Applies to accounts maintained outside the United States.)</i>
	3b	If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions <input type="checkbox"/>	
	5	Address (number, street, and apt. or suite no.). See instructions. 630 PLAZA DRIVE, SUITE 200	Requester's name and address (optional)
	6	City, state, and ZIP code HIGHLANDS RANCH, CO 80129	
	7	List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Social security number									
or									
Employer identification number									
5	7		0	3	7	3	2	2	4

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person 	Date 1/9/2025
------------------	-------------------------------------	----------------------

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

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.

1. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. CONSULTANT further agrees to be responsible for the employment, control, and conduct of its employees and for any injury sustained by such employees in the course of their employment. If the firm has **no employees** or (only principals/owners), they may file a statutory exemption or sign the City's Workers' Compensation (WC) waiver if the firm has fewer than four employees.

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 CONSULTANT's negligent acts or omissions in connection with CONSULTANT's performance under this Agreement.

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Prime /Firm Name	ARCADIS U.S., INC.
-------------------------	---------------------------

Position / Classification	Maximum Hourly Rate (\$)
Principal In Charge / Project Officer / SME	\$350
Principal Engineer/Architect/Consultant	\$300
Senior Project Manager	\$295
Project Manager	\$275
Senior Engineer/Architect/Consultant	\$250
Project Engineer/Architect/Consultant	\$195
Staff Engineer/Architect/Consultant	\$180
Engineer/Architect/Consultant 2	\$165
Engineer/Architect/Consultant 1	\$145
Senior Technician/Designer	\$180
Technician/Designer	\$150
Project Controls / Project Administration	\$125
Construction Director	\$280
Senior Construction Manager	\$230
Construction Manager	\$200
Senior Inspector	\$160
Inspector	\$140

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Sub /Firm Name	KEITH AND ASSOCIATES, INC.
Position / Classification	Maximum Hourly Rate (\$)
Project Executive	\$350.00
Project Manager	\$250.00
Project Controls Specialist	\$150.00
Administrative Assistant	\$125.00
Principal Engineer	\$280.00
Senior Engineer	\$230.00
Professional Engineer	\$200.00
Engineering Designer	\$165.00
Engineering Technician	\$135.00
Principal Landscape Architect	\$280.00
Senior Landscape Architect	\$230.00
Landscape Architect	\$200.00
Landscape Designer	\$165.00
Landscape Technician	\$135.00
Arborist	\$200.00
Planning Director	\$280.00
Planning Manager	\$230.00
Principal Planner	\$200.00
Planner	\$165.00
Planning Technician	\$135.00
Chief Utility Coordinator	\$230.00
Senior Utility Coordinator	\$200.00
Utility Coordinator	\$165.00

Utility Coordinator Technician	\$135.00
Construction Director	\$280.00
Senior Construction Manager	\$230.00
Construction Manager	\$200.00
Senior Inspector	\$180.00
Inspector	\$160.00
Chief Surveyor	\$280.00
Senior Surveyor /SUE	\$230.00
Project Surveyor / SUE	\$200.00
Survey / SUE Analyst	\$165.00
Survey / SUE Technician	\$135.00
Survey UAS/LiDAR Crew	\$250.00
Survey Crew	\$235.00
Utility Designating Crew	\$225.00
SUE Crew	\$400.00
Vacuum Excavation	\$550/Ea.

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Sub /Firm Name	JAVIER E. BIDOT & ASSOCIATES
Position / Classification	Maximum Hourly Rate (\$)
Topographic Survey Crew	\$256.13
Hydrographic Survey Crew	\$286.25
Senior (Registered) Surveyor	\$160.00
Survey Technician	\$140.85

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Sub /Firm Name	DICKEY CONSULTING SERVICES, INC.
Position / Classification	Maximum Hourly Rate (\$)
Principal	\$140.91
Project Director	\$80.85
Project Manager	\$69.30
Senior Project Coordinator	\$62.37
Project Coordinator	\$55.44
Technician	\$50.82

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Sub /Firm Name	FEDERAL ENGINEERING & TESTING, INC.
Position / Classification	Maximum Hourly Rate (\$)
Principal Engineer	175.00
Project Manager	135.00
Geologist Professional	135.00
Engineering Field Technician	95.00
Engineering Lab Technician	95.00
Secretary/Clerical	55.00

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Other Items		FEDERAL ENGINEERING & TESTING, INC.
Description	Unit	Maximum Rate (\$)
Asphalt Pavement Coring - 6in dia with Base Depth Check	Each	\$308.67
Concrete Pavement Coring - 4in Dia	Each	\$227.75
Concrete Pavement Coring - 6in Dia	Each	\$306.87
Geo Auger Borings-H& & Truck/Mud Bug	LF	\$13.35
Geo Double Ring Infiltration ASTM D3385	Each	\$673.90
Geo Drill Crew Support Vehicle	Day	\$249.55
Geo Extra SPT Samples-Truck/Mud Bug 0-50 Ft	Each	\$66.68
Geo Extra SPT Samples-Truck/Mud Bug 50-100 Ft	Each	\$73.39
Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	\$86.32
Geo Field Perm 0-10 Ft Open-End Borehole Method	Each	\$465.72
Geo Field Perm 10-25Ft Open-End Borehole Method	Each	\$599.73
Geo Grout Boreholes- Truck/Mud Bug 0-50 Ft	LF	\$7.90
Geo Grout Boreholes- Truck/Mud Bug 50-100 Ft	LF	\$9.66
Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$12.22
Geo H& Auger with DCP (0-50 ft) ASTM D1452	LF	\$8.73
Geo Piezometer 2in 0-50 Ft	LF	\$58.63
Geo Rock Coring Truck/Mud Bug 0-50 Ft 4in ID & over	LF	\$66.16
GeoRocCoring Truck/Mudbug 0-50 Ft less than 4in ID	LF	\$52.13
Geo Rock Coring Truck/Mudbug 50-100 Ft 4in ID over	LF	\$74.94
GeoRocCoring Truck/Mudbug 50-100 Ft les than 4in ID	LF	\$69.18
GeoRocCoring Truck/Mudbug 100-150 Ft 4in ID & over	LF	\$82.96
GeoRocCoring Truck/Mudbug 100-150 Ft les than 4in ID	LF	\$76.85
Geo SPT Truck/Mud Bug 0-50 Ft	LF	\$18.30
Geo SPT Truck/Mud Bug 50-100 Ft	LF	\$22.65
Geo SPT Truck/Mud Bug 100-150 Ft	LF	\$34.84
Geo Temp Casing 3in Truck/Mud Bug 0-50 Ft	LF	\$12.35
Geo Temp Casing 3in Truck/Mud Bug 50-100 Ft	LF	\$14.29
Geo Temp Casing 3in Truck/Mud Bug 100-150 Ft	LF	\$17.72
Geo Temp Casing 4in Truck/Mud Bug 0-50 Ft	LF	\$14.00
Geo Temp Casing 4in Truck/Mud Bug 50-100 Ft	LF	\$16.89
Geo Temp Casing 4in Truck/Mud Bug 100-150 Ft	LF	\$20.65
Geo Temp Casing 6in Truck/Mud Bug 0-50 Ft	LF	\$17.66
Geo Temp Casing 6in Truck/Mud Bug 50-100 Ft	LF	\$20.73
Geo Temp Casing 6in Truck/Mud Bug 100-150 Ft	LF	\$25.75
Geo Truck/Mud Bug Mobil (30 miles straight line distance)	Each	\$667.22
Geo Undisturbed Samples Truck/Mud Bug 0-50 Ft	Each	\$202.36

Geo Undisturbed Samples Truck/Mud Bug 50-100 Ft	Each	\$243.45
Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	\$289.79
Geo Truck/Mudbug Drill Rig and Crew (2-person)	Hour	\$290.05
Geo Truck/Mudbug Drill Rig and Crew (3-person)	Hour	\$367.51
Geo Wash Boring, 0-50 Ft	LF	\$14.12
Geo Wash Boring, 50-100 Ft	LF	\$16.84
Geo Wash Boring, 100-150 Ft	LF	\$23.94
Mobilization Asphalt Coring Equipment	Each	\$425.80
Mobilization Concrete Coring	Each	\$469.22
Soils Limerock Bearing Ratio (LBR) FM 5-515	Test	\$433.20
Soils Liquid Limit AASHTO T89	Test	\$76.00
Soils Materials Finer than 200 Sieve FM 1-T011	Test	\$55.85
Soils Moisture Content Laboratory AASHTO T265	Test	\$26.88
Soils Organic Content Ignition FM 1 T-267	Test	\$55.78
Soils Particle Size Anlys AASHTO T88 (No Hydrometer)	Test	\$81.41
Soils Plastic Limit & Plasticity Index AASHTO T90	Test	\$79.87

Exhibit C – Cover Page

1. Insurance Requirements

2. Approved Insurance

(b) 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 \$2,000,000 Per Aggregate
* Policy to be written on a claims incurred basis

XX comprehensive form	bodily injury and property damage
XX premises - operations explosion & collapse hazard underground hazard	bodily injury and property damage
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	Minimum \$1,000,000 Per Occurrence and Aggregate
sexual abuse/molestation	
liquor legal liability	Minimum \$1,000,000 Per Occurrence and Aggregate

*The city must be listed as Additional Insured and coverage must be Primary & Non-Contributory.

Coverages must include premises/operations, independent contractors, contractual liability, products/completed operations, and broad form property damage.

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.

EXCESS LIABILITY Per Occurrence Aggregate

___ other than umbrella bodily injury and \$1,000,000 \$1,000,000 property damage combined

PROFESSIONAL LIABILITY	Per Occurrence	Aggregate
XX * Policy to be written on a claims made basis	\$1,000,000	\$2,000,000

*The vendor must maintain coverage with a minimum of \$1,000,000 per claim and \$2,000,000 aggregate for contracts under \$7.5M in construction value. The policy must cover negligent acts, errors, or omissions arising from professional services and the vendor must maintained coverage for the duration of the contract and at least 4 years after project completion.

(c) 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 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.

3. 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.

4. Policies: Whenever, under the provisions of this Agreement, insurance is required of the CONSULTANT, the CONSULTANT 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. 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)
02/10/2026

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).

PRODUCER Aon Risk Insurance Services West, Inc. Denver CO Office 200 Clayton Street, Suite 800 Denver CO 80206 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): 800-363-0105		
	E-MAIL ADDRESS:		
INSURER(S) AFFORDING COVERAGE		NAIC #	
INSURED Arcadis U.S., Inc. 630 Plaza Drive Suite 200 Highlands Ranch CO 80129 USA	INSURER A: Indian Harbor Insurance Company		36940
	INSURER B: Hartford Accident & Indemnity Company		22357
	INSURER C: Twin City Fire Insurance Company		29459
	INSURER D: Hartford Fire Insurance Co.		19682
	INSURER E: Hartford Underwriters Insurance Company		30104
	INSURER F: Hartford Casualty Insurance Co		29424

COVERAGES CERTIFICATE NUMBER: 570117970047 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. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDITIONAL INSURED	SUBROGATION	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
C	<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 checked="" type="checkbox"/> LOC OTHER:			20ECSOL5969 SIR applies per policy terms & conditions	06/01/2025	06/01/2026	EACH OCCURRENCE	\$1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000
							MED EXP (Any one person)	\$10,000
							PERSONAL & ADV INJURY	\$1,000,000
							GENERAL AGGREGATE	\$2,000,000
							PRODUCTS - COMP/OP AGG	\$2,000,000
D	AUTOMOBILE LIABILITY			20 UEN OL5968 AOS	06/01/2025	06/01/2026	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
E	<input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY			20 UEN OL5973 HI	06/01/2025	06/01/2026	BODILY INJURY (Per person)	
							BODILY INJURY (Per accident)	
							PROPERTY DAMAGE (Per accident)	
F	<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			20XHUOL5972 00 Umb - \$5M xs Prim	06/01/2025	06/01/2026	EACH OCCURRENCE	\$1,000,000
							AGGREGATE	\$1,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			20WNOL5971 AOS	06/01/2025	06/01/2026	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER	
C	ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	N/A	20WBROL5970 MA, WI	06/01/2025	06/01/2026	E.L. EACH ACCIDENT	\$1,000,000
							E.L. DISEASE-EA EMPLOYEE	\$1,000,000
							E.L. DISEASE-POLICY LIMIT	\$1,000,000
A	Contractors Pollution Liability			US00101061E025A Claims Made Prof-Poll Lia SIR applies per policy terms & conditions	06/01/2025	06/01/2026	Each Claim	\$1,000,000
							Annual Aggregate	\$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 For Professional Liability and Pollution Liability coverage, the Aggregate Limit is the total insurance available for claims presented within the policy period for all operations of the insured. The Limit will be reduced by payments of indemnity and expense. Contractual Liability for Insured Contracts is included, subject to the policy terms, conditions, and exclusions.
 RE: Water & Reuse Treatment Plant Projects - Continuing Services contract (CCNA), Contract No. 13110, RLI No. 25-072. City of Pompano Beach is included as Additional Insured in accordance with the policy provisions of the General Liability and Automobile Liability policies. General Liability policy evidenced herein is Primary and Non-Contributory to other insurance available to Additional Insured, but only in accordance with the policy's provisions. A waiver of Subrogation is granted in

CERTIFICATE HOLDER City of Pompano Beach 100 West Atlantic Blvd. Pompano Beach FL 33060 USA	CANCELLATION 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
---	--

Holder Identifier : FGH1@

Certificate No : 570117970047





CERTIFICATE OF PROPERTY INSURANCE

Exhibit "C"

DATE (MM/DD/YYYY)
02/10/2026

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.

PRODUCER Aon Risk Insurance Services West, Inc. Denver CO Office 200 Clayton Street, Suite 800 Denver CO 80206 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): 800-363-0105		
	E-MAIL ADDRESS: PRODUCER CUSTOMER ID #: 57000005571		
INSURED Arcadis U.S., Inc. 630 Plaza Drive Suite 200 Highlands Ranch CO 80129 USA	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: QBE Specialty Insurance Company		11515
	INSURER B:		
	INSURER C:		
	INSURER D:		
	INSURER E:		

Holder Identifier :

COVERAGES	CERTIFICATE NUMBER: 570117970042	REVISION NUMBER:
LOCATION OF PREMISES/ DESCRIPTION OF PROPERTY (Attach ACORD 101, Additional Remarks Schedule, if more space is required) RE: Water & Reuse Treatment Plant Projects - Continuing Services contract (CCNA), Contract No. 13110, RLI No. 25-072.		

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	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	COVERED PROPERTY	LIMITS			
A	<input checked="" type="checkbox"/> PROPERTY	140011150	10/01/2025	10/01/2026	BUILDING				
	<input type="checkbox"/> CAUSES OF LOSS DEDUCTIBLES				PERSONAL PROPERTY				
	<input type="checkbox"/> BASIC BUILDING				<input checked="" type="checkbox"/> BUSINESS INCOME	Included			
	<input type="checkbox"/> BROAD CONTENTS				<input checked="" type="checkbox"/> EXTRA EXPENSE	\$5,000,000			
	<input type="checkbox"/> SPECIAL				RENTAL VALUE				
	<input type="checkbox"/> EARTHQUAKE				BLANKET BUILDING				
	<input type="checkbox"/> WIND				<input checked="" type="checkbox"/> BLANKET PERS PROP	\$87,577,091			
	<input type="checkbox"/> FLOOD				BLANKET BLDG & PP				
	<input checked="" type="checkbox"/> ALL RISK-Subject to Exclusions				<input checked="" type="checkbox"/> Valuable Papers Limit	\$1,000,000			
	<input type="checkbox"/> Blkt PP Ded				<input checked="" type="checkbox"/> Boiler & Machinery	Included			
	<input type="checkbox"/> INLAND MARINE				TYPE OF POLICY				
	<input type="checkbox"/> CAUSES OF LOSS NAMED PERILS				POLICY NUMBER				
<input type="checkbox"/> CRIME	TYPE OF POLICY								
<input type="checkbox"/> BOILER & MACHINERY / EQUIPMENT BREAKDOWN									

570117970042

CERTIFICATE NUMBER:

SPECIAL CONDITIONS / OTHER COVERAGES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Replacement cost coverage provided.

CERTIFICATE HOLDER City of Pompano Beach 100 West Atlantic Blvd. Pompano Beach FL 33060 USA	CANCELLATION 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
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AGENCY CUSTOMER ID:

570000005571



LOC #:

ADDITIONAL REMARKS SCHEDULE

Page _ of _

AGENCY Aon Risk Insurance Services West, Inc.		NAMED INSURED Arcadis U.S., Inc.	
POLICY NUMBER See Certificate Number: 570117970042		EFFECTIVE DATE:	
CARRIER See Certificate Number: 570117970042	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: ACORD 24 **FORM TITLE:** Certificate of Property Insurance

Earthquake & Flood Limits/Deductible

Earthquake Limit:

\$3,250,048 CA;

\$10,833,495 AL,AK,HI,ID,IL,IN,KY,MO,MT,NV,NM,OR,TN,UT,WA,WY;

\$54,167,474 All Other Locations

Deductible: CA 5% \$10,833 minimum; \$2,708 storage and warehouse locations; 2% minimum; \$1,083 All Other Locations

Flood Limit:

\$5,416,747 Zones A & V

\$10,833,495 All Other Locations

Deductible: 2% \$10,833 minimum A & V locations; \$2,708 storage and warehouse locations; \$1,083 All Other Locations



ADDITIONAL REMARKS SCHEDULE

AGENCY Aon Risk Insurance Services West, Inc.		NAMED INSURED Arcadis U.S., Inc.	
POLICY NUMBER See Certificate Number: 570117970047			
CARRIER See Certificate Number: 570117970047	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: ACORD 25 **FORM TITLE:** Certificate of Liability Insurance

Additional Description of Operations / Locations / Vehicles:

favor of City of Pompano Beach, its officers, employees and agents in accordance with the policy provisions of the General Liability, Automobile Liability, Umbrella Liability, Professional Liability, Pollution Liability and workers' Compensation policies.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION TO CERTIFICATE HOLDER(S)

This policy is subject to the following additional Conditions:

- A.** If this policy is cancelled by the Company, other than for nonpayment of premium, notice of such cancellation will be provided at least thirty (30) days in advance of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.
- B.** If this policy is cancelled by the Company for nonpayment of premium, or by the insured, notice of such cancellation will be provided within (10) days of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.

If notice is mailed, proof of mailing to the last known mailing address of the certificate holder(s) on file with the agent of record or the Company will be sufficient proof of notice.

Any notification rights provided by this endorsement apply only to active certificate holder(s) who were issued a certificate of insurance applicable to this policy's term.

Failure to provide such notice to the certificate holder(s) will not amend or extend the date the cancellation becomes effective, nor will it negate cancellation of the policy. Failure to send notice shall impose no liability of any kind upon the Company or its agents or representatives.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION TO CERTIFICATE HOLDER(S)

This policy is subject to the following additional Conditions:

- A.** If this policy is cancelled by the Company, other than for nonpayment of premium, notice of such cancellation will be provided at least thirty (30) days in advance of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.
- B.** If this policy is cancelled by the Company for nonpayment of premium, or by the insured, notice of such cancellation will be provided within (10) days of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.

If notice is mailed, proof of mailing to the last known mailing address of the certificate holder(s) on file with the agent of record or the Company will be sufficient proof of notice.

Any notification rights provided by this endorsement apply only to active certificate holder(s) who were issued a certificate of insurance applicable to this policy's term.

Failure to provide such notice to the certificate holder(s) will not amend or extend the date the cancellation becomes effective, nor will it negate cancellation of the policy. Failure to send notice shall impose no liability of any kind upon the Company or its agents or representatives.



Policy Number: 20XHUOL5972

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION TO CERTIFICATE HOLDER(S)

This policy is subject to the following additional Conditions:

- A.** If this policy is cancelled by the Company, other than for nonpayment of premium, notice of such cancellation will be provided at least thirty (30) days in advance of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.
- B.** If this policy is cancelled by the Company for nonpayment of premium, or by the insured, notice of such cancellation will be provided within (10) days of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.

If notice is mailed, proof of mailing to the last known mailing address of the certificate holder(s) on file with the agent of record or the Company will be sufficient proof of notice.

Any notification rights provided by this endorsement apply only to active certificate holder(s) who were issued a certificate of insurance applicable to this policy's term.

Failure to provide such notice to the certificate holder(s) will not amend or extend the date the cancellation becomes effective, nor will it negate cancellation of the policy. Failure to send notice shall impose no liability of any kind upon the Company or its agents or representatives.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION TO CERTIFICATE HOLDER(S)

Policy Number: 20WNOL5971

Endorsement Number:

Effective Date: 06/01/2025

Effective hour is the same as stated on the Information Page of the policy.

Named Insured and Address:

ARCADIS U.S., INC.

630 PLAZA DR STE 200

LITTLETON

CO

This policy is subject to the following additional Conditions:

- A. If this policy is cancelled by the Company, other than for non-payment of premium, notice of such cancellation will be provided at least thirty (30) days in advance of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.
- B. If this policy is cancelled by the Company for non-payment of premium, or by the insured, notice of such cancellation will be provided within ten (10) days of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.

If notice is mailed, proof of mailing to the last known mailing address of the certificate holder(s) on file with the agent of record or the Company will be sufficient proof of notice.

Any notification rights provided by this endorsement apply only to active certificate holder(s) who were issued a certificate of insurance applicable to this policy's term.

Failure to provide such notice to the certificate holder(s) will not amend or extend the date the cancellation becomes effective, nor will it negate cancellation of the policy. Failure to send notice shall impose no liability of any kind upon the Company or its agents or representatives.

This endorsement, effective 12:01 a.m., June 1, 2025 forms a part of Policy No. US00101061EO25A issued to Arcadis North America, Arcadis U.S. Inc., CallisonRTKL Inc. by Indian Harbor Insurance Company.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

POLICY CANCELLATION – NOTICE TO DESIGNATED ENTITIES

This endorsement modifies insurance provided under the following:

PROFESSIONAL, ENVIRONMENTAL AND NETWORK SECURITY LIABILITY POLICY – ARCHITECTS, CONSULTANTS AND ENGINEERS

Section XI. OTHER CONDITIONS, Paragraph A. Cancellation is amended by the addition of the following:

In the event that the Company cancels this Policy for any statutorily permitted reason other than non-payment of premium, the Company agrees to provide thirty (30) days' notice of cancellation of this Policy to any entity with whom the NAMED INSURED agreed in a written contract or agreement would be provided with notice of cancellation of this Policy, provided that:

1. The Company receives, at least fifteen (15) days prior to the date of cancellation, a written request from the NAMED INSURED to provide notice of cancellation to entities designated by the NAMED INSURED to receive such notice and;
2. The written request includes the name and address of each person or entity designated by the NAMED INSURED to receive such notice.

This endorsement does not apply to non-renewal of the Policy, cancellation at the INSURED'S request, or to cancellation of the Policy for non-payment of premium to the Company or to a premium finance company authorized to cancel the Policy. Furthermore, nothing contained in this endorsement shall be construed to provide any rights under the Policy to the entities receiving notice of cancellation pursuant to this endorsement, nor shall this endorsement amend or alter the effective date of cancellation stated in the cancellation notice issued to the NAMED INSURED.

All other terms and conditions of the Policy remain unchanged.