



**CITY OF ATLANTA  
NOTICE OF PROPOSED CONTRACT ACTIONS**

ATTENTION INTERESTED OFFERORS:

The City of Atlanta's Department of Procurement ("DOP") on behalf of the Department of Watershed Management ("DWM"), is posting this notice of proposed contract actions for the following services: Seeking qualified Service Providers for SCADA System Upgrade and Maintenance Project.

**Negotiation Number:** EA-1190648

**Project Title:** SCADA Upgrade and Maintenance Project

**Anticipated Solicitation Release Date:** Thursday, May 9, 2019

**Anticipated Contract Period of Performance:** Anticipated start date is within Thirty (30) Days of an executed Contract.

**Place of Performance:** City of Atlanta (*Performance site location details listed below*)

**Oral Presentations:** Presentation Times and Dates are TBD and will be scheduled after receipt of responses.

**Site Visits:** Wednesday, May 14, 2019 from 9:30am-3:30pm & Wednesday, May 15, 2019 from 9:30am-3:30pm

**Site Visit Locations:**

1. Hemphill Water Treatment 605 Bishop St., Atlanta, GA 30318
2. Chattahoochee Water Treatment 2440 Bolton Rd., Atlanta, GA 30318
3. System Control 650 17th St. NW, Atlanta, GA 30318
4. South River WRC 955 South River Industrial Blvd, Atlanta, GA
5. Clear Creek 1320 Monroe Dr., NE, Atlanta, GA 30306
6. Intrenchment Creek WRC 1510 Key Rd., SE, Atlanta, GA 30316

**As a requirement to submit a response to EA-1190648, it is mandatory that your firm has representation and participates in both Site Visits on May 14, 2019 and May 15, 2019.** If your firm plans to attend the Site Visit for EA-1190648, SCADA Upgrade and Maintenance Project, the Site Visit Confidentiality Agreement must be completed, signed, and returned to Mr. Clinton L. Johnson via e-mail at [CLJohnson@atlantaga.gov](mailto:CLJohnson@atlantaga.gov) no later than 5:00 P.M., Friday, May 10, 2019. **Each attendee representing your firm that plans to attend the Site Visit, must submit the Site Visit Confidentiality Agreement form. No more than two (2) individuals representing a given firm may attend the Site Visit. The City of Atlanta will provide designated transportation for all Site Visit Attendees. Once the Site Visits are complete, the City's designated Site Visit transportation will shuttle attendees back to City Hall. Transportation for the Site Visit will leave from Atlanta City Hall (55 Trinity Ave. S.W. Suite 1900, Atlanta, Georgia 30303) promptly at 9:30am so please plan to arrive on time.**

Please review the following pertinent exhibit attachments related to the Site Visit:

1. Please see the attached required document Titled: **EA-1190648, Site Visit Confidentiality Agreement** which must Be Submitted to [CLJohnson@atlantaga.gov](mailto:CLJohnson@atlantaga.gov) no later than 5pm, Friday, May 10, 2019;

*Note: Each attendee representing your firm that plans to attend the Site Visit, must be submit the form. No more than two (2) individuals representing a given firm may attend the Site Visit. The City of Atlanta will provide designated transportation for all Site Visit Attendees;*

2. Scope of Work and Minimum Requirements.

### **Important Dates to Remember**

**Tuesday, May 2, 2019** - Synopsis posted to City's website, click [here](#).

**Thursday, May 9, 2019** – Solicitation advertisement posted to ATLCcloud, click [here](#).

**Friday, May 10, 2019 by 5:00pm** – Site Visit Confidentiality Agreement forms must be sent to [CLJohnson@atlantaga.gov](mailto:CLJohnson@atlantaga.gov)

**Site Visits – Tuesday, May 14, 2019 from 9:30am-3:30pm and Wednesday, May 15, 2019 from 9:30am-3:30pm.**

**Thursday, May 16, 2019 by 12:00pm** – Last day to submit questions

**Thursday, May 23, 2019 by 2:00pm** – Responses are due and must be submitted through ATLCcloud, click [here](#).

This Negotiation will be made available electronically on or near the anticipated negotiation release date.

The City reserves the right to cancel any and all negotiations when it is for good cause and in its best interest.

Thank you for your interest in doing business with the City.

### **Important Procurement Links**

For information on supplier training, click [here](#).

In order to submit a bid/proposal, you must be registered as a supplier. To register as a supplier, please click [here](#).

Once registered as a supplier, please click [here](#) to login to the Supplier Portal.

To avoid common errors in submitting a proposal, please click [here](#) to see Bases for Determination of Non-Responsiveness.

To view active negotiations, please click [here](#).

# Site Visit Confidentiality Agreement

As a requirement to submit a response to EA-1190648, it is mandatory that your firm has representation and participates in both Site Visits on May 14, 2019 and May 15, 2019. If your firm plans to attend the Site Visit for EA-1190648, SCADA Upgrade and Maintenance Project, the Site Visit Confidentiality Agreement must be completed, signed, and returned to Mr. Clinton L. Johnson via e-mail at [CLJohnson@atlantaga.gov](mailto:CLJohnson@atlantaga.gov) no later than 5:00 P.M., Friday, May 10, 2019. Each attendee representing your firm that plans to attend the Site Visit, must submit the Site Visit Confidentiality Agreement form. No more than two (2) individuals representing a given firm may attend the Site Visit. The City of Atlanta will provide designated transportation for all Site Visit Attendees. **Once the Site Visits are complete, the City's designated Site Visit transportation will shuttle attendees back to City Hall. Transportation for the Site Visit will leave from Atlanta City Hall (55 Trinity Ave. S.W. Suite 1900, Atlanta, Georgia 30303) promptly at 9:30am so please plan to arrive on time.**

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## **CONFIDENTIALITY AGREEMENT**

This **CONFIDENTIALITY AGREEMENT** (“Agreement”) is made this \_\_\_ day of \_\_\_\_\_, 2019 (the “Effective Date”), by and between \_\_\_\_\_ (the “Vendor”) and the City of Atlanta (the “City”).

### **RECITALS**

**WHEREAS**, the City of Atlanta’s (COA) Department of Watershed Management and its operational offices of, Water Treatment and Reclamation (OWTR), and Information Management (OIM) will select control system integrators who specialize in water and wastewater treatment, collection and distribution SCADA & DCS environments; and

**WHEREAS**, OWTR is seeking a vendor to provide critical upgrades, and improvements to the current SCADA infrastructure to enhance stability and security of the existing systems (the “Proposed Transaction”); and

**WHEREAS**, as part of the evaluation and negotiation of the Proposed Transaction, the City of Atlanta and its designated representatives may disclose to vendor or its designated representatives certain information (whether oral, in writing, in machine readable or other tangible form) which the City of Atlanta deems proprietary and confidential, including but not limited to, financial information, trade secrets, proposed development plans, acquisition, negotiation strategy, property valuations, prices, offers, market and sales information and plans, models, and any non-public information which concerns the development, research, and plans of the Proposed Transaction or of the vendor to this Agreement (“Confidential Information”); and

**WHEREAS**, the City of Atlanta desire to memorialize the terms, conditions and procedures which will govern the disclosure and use of such Confidential Information.

**NOW, THEREFORE**, in consideration of the disclosure of the Confidential Information and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the vendor further agree as follows:

1. When informed of the proprietary and confidential nature of Confidential Information that has been disclosed by the City or its designated representative, the receiving Party (“Recipient”) shall refrain from disclosing such Confidential Information to any contractor, agent, or other third party without prior, written approval from the City of Atlanta and shall protect such Confidential Information from inadvertent disclosure using the same care and diligence that the City would use to protect its own proprietary and confidential information, but in no case less than reasonable care. Vendor shall ensure that each of its employees, officers, directors, or agents who has access to Confidential Information disclosed under this Agreement is informed of its proprietary and confidential nature and is required to abide by the terms of this Agreement. Vendor shall also refrain from disclosing the terms of this Agreement or the Proposed Transaction except as required under this Agreement. Vendor shall promptly notify the City of Atlanta of any disclosure of Confidential Information in violation of this Agreement or of any subpoena or other legal process requiring production or disclosure of said Confidential Information. Notwithstanding the foregoing or anything to the contrary contained herein, Vendor acknowledges that the City of Atlanta is subject to the Georgia Open Records Act (“GORA”)

and that Confidential Information provided to the City is subject to disclosure pursuant to the requirements of GORA.

2. All Confidential Information disclosed under this Agreement shall be and remain the property of the City of Atlanta and nothing contained in this Agreement shall be construed as granting or conferring any rights to such Confidential Information to the vendor. Vendor shall honor any request from the City of Atlanta to promptly return or destroy all copies of Confidential Information disclosed under this Agreement and all notes related to such Confidential Information.

3. Vendor shall not use the Confidential Information, directly or indirectly, for any purpose other than vendor's evaluation of and obligations, if any, under the Proposed Transaction, and such permitted use shall cease when the City of Atlanta has notified the vendor that it no longer considers vendor's participation in the Proposed Transaction. Vendor understands that neither the City of Atlanta nor any of its representatives or advisors has made or herein makes any representation or warranty as to the accuracy or completeness of any Confidential Information.

4. The vendor agrees that money damages would not be a sufficient remedy for any breach of this Agreement and that the City of Atlanta shall be entitled to seek injunctive relief or remedy to prevent any breach or threatened breach of this Agreement. Such remedy shall not be the exclusive remedy for any breach of this Agreement but shall be in addition to all other rights and remedies available at law or in equity.

5. Unless otherwise stated herein, the rights and obligations of the Vendor under this Agreement will continue indefinitely from the effective date and will survive the expiration or termination, for any reason, of any other contractual relationship between the Parties that may occur while this Agreement is in effect.

6. All notices required under this Agreement must be in writing and will be deemed made or given: (a) upon personal delivery to the Party to be notified; (b) three (3) days after having been sent by registered or certified mail, return receipt requested, postage prepaid; or (c) one (1) day after deposit with an internationally recognized overnight carrier with written verification of receipt. All notices must be addressed to the Party entitled to notice at the address indicated below, or at such other address as such Party may designate by two (2) days' advance written notice under this Paragraph to the other Party to this Agreement.

**If to the City:**

**With a copy to:**

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

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

**If to:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Nothing in this Agreement shall be construed to constitute an agency, partnership, joint venture, or other similar relationship between the Parties. This Agreement shall be governed by, and interpreted in accordance with, the laws of the State of Georgia. This Agreement shall be binding upon the parties, their designated representatives, their successors, and assigns. Neither Party shall assign this Agreement, or any Confidential Information received from the City of Atlanta pursuant to this Agreement without the City's prior written consent. The invalidity or unenforceability of any provision hereof shall in no way affect the validity or enforceability of the remainder of this Agreement or any other provision hereof. This Agreement constitutes the entire agreement of the Parties with respect to the subject matter of this Agreement. Any amendment or modification of this Agreement shall be in writing and executed by duly authorized representatives of the Parties.

IN WITNESS WHEREOF, the vendor has executed this Agreement as of the Effective Date.

VENDOR

Company Name \_\_\_\_\_ Date \_\_\_\_\_

Authorized Representative \_\_\_\_\_  
Signature

Authorized Representative \_\_\_\_\_  
Type or Print

## **Scope of Work and Minimum Requirements**



City of Atlanta

Department of Watershed Management

SCADA Stabilization Scope of Work

**Author(s)**  
**Niki Rodriguez**  
**Venison Nelson**  
**Version: 5.5**  
**Date Submitted:**  
**04/11/2019**

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**Department of Watershed Management  
Office of Water Treatment and Reclamation  
Process Control Group**

**SCADA Upgrade and Maintenance Project**

**Statement of Work (SOW) v5.5**

## Executive Summary

The City of Atlanta's (COA) Department of Watershed Management and its operational offices of, Water Treatment and Reclamation (OWTR), and Information Management (OIM) will select control system integrators who specialize in water and wastewater treatment, collection and distribution SCADA & DCS environments. OWTR is seeking a vendor to provide critical upgrades, and improvements to the current SCADA infrastructure to enhance stability and security of the existing systems. Vendors will be asked to provide a statement of experience with references and have a minimum of 5 years of water and wastewater SCADA and/or DCS work. Also, the integrator's work effort must conform to the NIST 800-82 Standards, GUIDE TO INDUSTRIAL CONTROL SYSTEMS (ICS) SECURITY.

## Background

OWTR is currently in the process of developing a Master Plan for enhancing the SCADA System's reliability, resilience and, security. In preparation for the implementation of this Master Plan, OWTR has determined, out of necessity, a need to upgrade and/or refresh portions of the SCADA environment to ensure alignment throughout the SCADA environment.

## Location of Work

This scope of work will take place on site at the City of Atlanta's Department of Watershed Management facilities consisting of the following site types.

- 3 sites for water treatment centers
  - Site A
  - Site B
  - Site C
- 3 sites for waste water systems
  - Site D
  - Site E
  - Site F (In support of work at site E)

Note: Physical site names and addresses will be provided to those vendors who intend to submit a proposal in response to the RFP and who attend the mandatory (to be announced) site visits. Each, "Site" pertains to a single but separate address location.

## Proposal Acceptance

The City is looking to have this work completed in an expedited manner while having quality control strictly adhered to. With that in mind the City reserves the right to select multiple vendors and to complete the work simultaneously utilizing multiple work streams. At a minimum, a vendor can limit their proposal to a complete site, multiple sites or the entire scope. All proposals regardless of scope will be given equal consideration.

Note: During the site visits, a total of 6 sites will be reviewed over a period of two consecutive days. Vendors wishing to submit a proposal will be required to attend both days.

## Scope Elements

### Element A - Water Treatment Systems

#### SCADA Server Virtualization (Sites A, B, C)

The work shall include the virtualization of three primary, three secondary and at a minimum three historian, replacement control servers at Site A, Site B, and Site C. The virtualization will bring the hardware into compliance and will allow for the eventual conversion of the controller software. In addition, the work shall also include an upgrade of the SCADA software to a version which must allow a successful failover from the primary to the secondary server. Versioning of the SCADA/DCS software packages will be coordinated with the DWM's Automation and Reliability Group. The new replacement server hardware shall be an industry standard and will run a current version of the Windows Server Operating System. At completion the primary and secondary servers will be located at different locations which will be determined in coordination with the OWTR and OIM. For each site there will be 1 to 3 Historians. Clear implementation plans regarding the Historians will be provided during site visit.

#### Physical Security (Site A, B, C)

All rooms containing IT devices may require physical access security, OWTR has a current assessment of this effort and will share this during the site visits. It is expected the vendor will confirm the validity of the assessment.

#### Electric Pump Station Programmable Logic Controller (PLC) Signal Relocation (Site C)

The System Integrator shall review Site C's Pump Station PLC code and I/O signal allocation to reduce the possibility of a single point of failure from shutting down the pump station's operation. An example of a single point of failure is the Water Distribution System's East Discharge and West Discharge Pressure Valves. The signals associated with the valves are currently located on the same I/O card as Electric Pump Station Pump#2. Physical, electrical and programmatic changes will be made at the Programmable Logic Controller to relocate critical systems that can cause single points of failure to separate I/O cards.

#### Network Connection (Site A)

The City of Atlanta DWM is looking to establish a connection between the DWM SCADA Network and a secondary network to allow for the transfer of historical data. The goals of the connection are multifaceted. Security is the top priority; it is important the actual control of the treatment centers remains air-gapped from all other networks; however, it is just as important to provide a method to allow real-time data without compromising security. The work to establish a connection will require coordinating through a workshop process with DWM's Automation and Reliability Group and OIM prior to commencing any work on this task. In addition, the design of the connection must adhere to the NIST 800-82 Standard.

#### Water Treatment Plan Level Control Component Replacement (Sites A, B, C,)

The three critical Water Treatment Sites A, B, and C will undergo a control system component refresh down to the plant level. This will include identification and replacement of obsolete and/or failed SCADA components such as PLC's, networking, and copper or fiber. OWTR has a current assessment of this effort and will share this during the site visit, however OWTR will look for validation from the vendor.

## Element B – Waste Water Treatment Systems

### Refresh Current Control Environment (Site D)

Refresh of the current DCS system's servers, networking, and software are needed to ensure the reliability and resiliency of this plant. Site D's WRC's Distributive Control System (DCS) and Programmable Logic Controller (PLC) Systems are outdated and beyond end of life needing replacing. These systems monitor and control various process equipment to provide inter-connectivity required to treat wastewater and meet regulatory compliance permits. OWTR has a current assessment of this effort and will share this during the site visit, however OWTR will look for confirmation from the vendor.

### Refresh Current SCADA Environment (Site E)

Site E has Stormwater Management, Sewer Pumping and Storage Groups which require a SCADA system to provide indication and control of the remote locations that they are responsible for. Its SCADA system needs to be restored to normal operating conditions. In addition to an overhaul, the site will also require physical access security. The vendor shall assess the City's known concerns and proposed requirements, determine and document in detail requirements to stabilize this waste water site.

### Control System Implementation (Site F)

Site F will house the control system for managing the newly refurbished SCADA system installed at Site E. This will include monitoring, and headend HMI's. The vendor will work with OWTR and OIM to access and implement requirements.

### Physical Security (Site D,E,F)

All rooms containing IT devices may require physical access security, OWTR has a current assessment of this effort and will share this during the site visits. It is expected the vendor will confirm the validity of the assessment.

## Element C - Miscellaneous

### Construction (Sites A, B, C, D, E, F)

Currently all Sites are being evaluated for, internal "construction type work" necessary for providing secure locations (rooms) in accordance with the NIST 800-82 standard for securing of IT devices related to this RFP. Construction type work will primarily consist of internal room construction/demolition but may also include small to medium size outdoor containment structures. We will share the requirements resulting in the need for construction type work during the site visits.

## Element D - Miscellaneous

### IT Cabling (Sites A, B, C, D, E, F)

IT Cabling will consist primarily of internal/external fiber runs with termination but may include internal Cat 6E copper cable runs and terminations as well. We will share the requirements resulting in the need for cabling type work during the site visits.

## Out of Scope

- The SCADA Upgrade and Maintenance Project will not include any of the SCADA Master Plan offerings not specifically mentioned in this SOW.
- Other Watershed Plant sites not referred to in this SOW.

## Period of Performance

An anticipated start of the work will be within 30 days of an executed contract. Various vendor start dates will be staggered, based on the overall project plan. The anticipated duration of the work will be determined by each vendor with an understanding that urgency is a criterion. The vendor shall provide a construction / implementation schedule to the city before work commences.

## Acceptance Criteria

The Integrator shall follow the project steering committee's guidance for stage gate reviews and documentation related to each phase of the project. The Department of Watershed Management and Atlanta Information Management shall designate approver(s) to accept documentation and validate services for each stage of the integration.

## Special Requirements

- a. All testing and assessments shall not interfere with daily operations.
- b. All outages must be planned and coordinated with OWTR and executed in accordance with the AIM's Change Control Processes.
- c. All server virtualization and software upgrades must be conducted in a test environment with documented testing and City authorization required before being placed in production.
- d. The integrator must conform to the NIST 800-82 standards for SCADA systems, especially as it relates to connectivity between similar networks and security.
- e. All network devices must have their configurations verified before installation and signed over to the City immediately after.
- f. Devices used to connect similar networks will have their interfaces configured, "Deny All" by the vendor. At no time will the vendor turn those interfaces to an, "UP" state. Only the city will configure and enable those interfaces to pass traffic.
- g. All IT Server configurations must be hardened to only allow approved applications and maintenance. This must be verified by the City before implementation into production.

# EA-1190648, SCADA Upgrade and Maintenance Project

## Minimum Requirements

1. Provide resumes for each of the key personnel proposed for this project with specific emphasis on the ability to provide the City with certifications and/or licenses listed.
2. All proposed key personnel must have at least a minimum of three (3) years of work experience in assessments, design, implementation and management oversight for SCADA systems; demonstrated experience with water and wastewater SCADA systems, instrumentation and controls, and demonstrated experience in mitigation of security and stabilization risks.
3. The Project Manager and/or Program Manager must have a minimum of five (5) years of experience in implementing SCADA infrastructure upgrades and preferably must have a PMP certification within the past five (5) years.
4. Each resume should be limited to no more than three (3) pages per person and be organized according to the following: 1. Name and Title, 2. Professional Background, 3. Current and Past, 4. Relevant Work Experience, 5. Certifications, 6. Include two (2) references for each key personnel member on similar projects.
  - a. The Provider should be a Cisco Gold Certified Partner and must have at minimum Cisco CCDP and CCIE level personnel available and assigned to this engagement. In addition, wiring/cabling must have Registered Communication Distribution Design (RCDD) on staff; Professional Engineer License (P.E.); Microsoft Solutions Certified Associate (10 yrs. exp) or Microsoft Expert (5 yrs. exp.). Control System Integrator Association (CSIA) Certified.
  - b. Infrastructure Experience
    - i. Rockwell Automation ControlLogix and CompactLogix
    - ii. Industrial Internet of Things
    - iii. NIST 800 Cybersecurity Framework
    - iv. Industrial Control Network Security
    - v. Telemetry
    - vi. GE Simplicity Suite
    - vii. Foxboro I/A
    - viii. Foxboro Evo
    - ix. Wonderware Archestra
    - x. Inductive Automation Ignition