

COLUMBUS CONSOLIDATED GOVERNMENT

CONTRACT ROUTING MEMORANDUM

DATE: March 19, 2018

SUBJECT: Water Management Services (Annual Contract) – RFB No. 18-0026

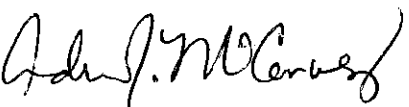
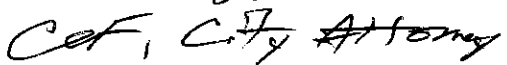
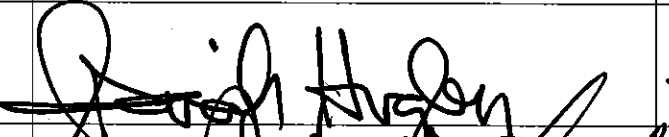
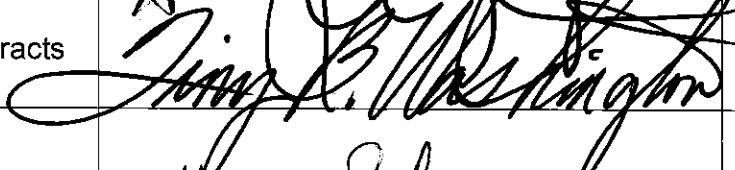

FROM: Heather Scheuttig, Purchasing Division ^{AS}

Please route for appropriate signatures the two (2) copies of the attached contract with Steam-Co., LLC., The firm will provide water management services on an “as needed” basis.

The initial term of this contract shall be for two years with the option to renew for three additional twelve-month periods. Contract renewal shall be contingent upon the mutual agreement of the City and the Contractor.

Funds are budgeted each fiscal year for this ongoing expense: General Fund – Public Works – Facilities Maintenance – Service Contracts; 0101-260-2700-6513

Council authorized this contract per Resolution No. 98-18; dated March 13, 2018 (copy is attached).

Signatories	Signatures Required (No initials please)	Date
Purchasing Division Manager Signature of Approval		3/20/18
City Attorney: Signature required on Contracts	Form Approved: 	3/21/18
City Manager: Signature required on Contracts		3/21/18
Clerk of Council: Signature Required on Contracts & Attest/Seal		3/27/18
Buyer: Process / Distribute		3/27/18

After all signatures have been applied, please contact Purchasing Division (ext - 3071) for distribution.

A RESOLUTION

NO 98-18

C.M. 13-18(4)(D)
98-18

A RESOLUTION AUTHORIZING THE ANNUAL CONTRACT FOR PROVISION OF WATER MANAGEMENT SERVICES FROM STEAM-CO (WILLACOOCHEE, GA), FOR THE ESTIMATED ANNUAL CONTRACT VALUE OF \$14,850.00.

WHEREAS, the contractor will provide all labor, materials and equipment to provide a complete service-oriented water treatment management program. The water treatment program includes, but is not limited to, the prevention of mineral scale, corrosion and bacterial growth in the water systems, water conservation, technical support, service and reporting. The treatment will include all cooling towers, boilers and closed water loops operated by the City; and,

WHEREAS, the contract term shall be for two (2) years, with the option to renew for three (3) additional twelve-month periods. Contract renewal will be contingent upon the mutual agreement of the City and the Contractor.

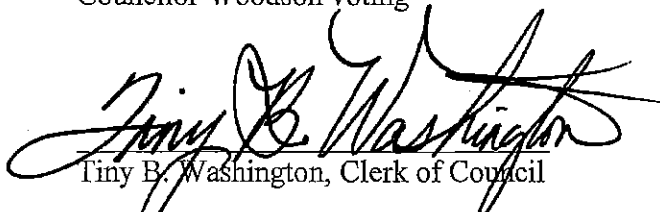
NOW, THEREFORE, THE COUNCIL OF COLUMBUS, GEORGIA HEREBY RESOLVES AS FOLLOWS:


That the City Manager is hereby authorized to enter into an annual contract for the provision of water management services from Steam-Co (Willacoochee, GA), for the estimated annual contract value of \$14,850.00. Funds are budgeted each fiscal year for this on-going expense: General Fund - Public Works, Facilities Maintenance - Service Contracts; 0101-260-2700-6513.

Introduced at a regular meeting of the Council of Columbus, Georgia, held the 13th day of March, 2018 and adopted at said meeting by the affirmative vote of eight members of said Council.

Councilor Allen voting
Councilor Baker voting
Councilor Barnes voting
Councilor Davis voting
Councilor Garrett voting
Councilor Huff voting
Councilor Thomas voting
Councilor Turner Pugh voting
Councilor Woodson voting

ABSENT
YES
YES
YES
YES
YES
YES
YES
YES


Tiny B. Washington, Clerk of Council


Teresa Pike Tomlinson, Mayor

CONTRACT

THIS CONTRACT, executed this 27th day of March 2018, by and between the **Consolidated Government of Columbus, Georgia**, hereinafter called the "City", and **Steam-Co., LLC**, hereinafter called the "Contractor"

WITNESSETH:

That in consideration of the mutual covenants, obligations, and terms set-forth in the attached proposal and specifications, the parties hereby agree as follows:

1. That the Contractor met all proposal requirements and was evaluated responsive for providing **Water Management Services (Annual Contract)**, per **RFB No. 18-0026**, and was awarded the Contract by Columbus City Council on Tuesday, March 13, 2018, Resolution No. 98-18, for the initial term of two years, beginning April 1, 2018 through March 31, 2020, with the option to renew for three (3) additional twelve-month periods, for furnishing the same in accordance with the specifications prepared by the City and the submittal of the Contractor.

2. The Contractor will, at its own cost and expense, furnish all labor, materials, and equipment required to be furnished, provide all related services required, and meet all other requirements or conditions imposed, all strictly in accordance with the City's Business Requirements, the City's Request for Bids, dated December 14, 2017 (and all addenda thereto), the Contractor's submittal dated January 31, 2018 and the bid clarification documents which are attached hereto as exhibits "A", "B", and "C" respectively, and which are by reference made a part hereof to the same extent as if fully set out herein.

3. On the faithful performance of this Contract by the Contractor, the City will pay the Contractor in accordance with the terms and on the conditions stated in this Contract and the exhibits attached to and by reference made a part hereof.

FORM 6

**CONTRACT SIGNATURE PAGE
WATER MANAGEMENT SERVICES
(Annual Contract)
RFB No. 18-0026**

The undersigned hereby declares that he has/they have carefully examined the specifications herein referred to and will provide all equipment, terms and services of the Consolidated Government of Columbus, Georgia:

ATTEST:

James L. Deloach
Witness as to the Contractor

Tommy Turkey
Witness as to the Contractor

Bradley Dubberly 1-18-18
Signature of Authorized Representative Date

Bradley Dubberly / Sales + Service Rep.
Print Name and Title of Signatory

Company: Steam-CO., LLC

Address: 517 Springhead Church Rd.
Willacoochee, Ga. 31650

Telephone: 1-888-225-9559

Fax: 1-912-534-6010

Email: brad@steam-co.com

* * * * *

CONSOLIDATED GOVERNMENT OF COLUMBUS, GEORGIA

Accepted this 27th day of March 2018

Isaiah Hugley
Isaiah Hugley, City Manager

APPROVED AS TO LEGAL FORM:

Clifton C. Fay, City Attorney
Clifton C. Fay, City Attorney

EXECUTION AUTHORIZED

ATTEST:

Tiny B. Washington
Tiny B. Washington, Clerk of Council

By Resolution No. 198-18
Tiny B. Washington
Clerk of Council

EXHIBIT A

*Columbus Consolidated Government
Water Management Services
(Annual Contract)
Business Requirements*

RFB No. 18-0026

1

BUSINESS REQUIREMENTS

**** Section Redacted ****

These documents have been filed in the Purchasing Division

5th Floor – Finance Department
100 10th Street
Columbus, Georgia 31901

Please contact Purchasing to view these documents at ext: 3071

EXHIBIT B

*Columbus Consolidated Government
Water Management Services
(Annual Contract)
Request for Bids*

RFB No. 18-0026

COLUMBUS CONSOLIDATED GOVERNMENT*Georgia's First Consolidated Government***FINANCE DEPARTMENT
PURCHASING DIVISION**100 TENTH STREET, P. O. BOX 1340
COLUMBUS, GEORGIA 31902-1340
706-653-4105, FAX 706-225-3033Date: December 14, 2017

REQUEST FOR BIDS:	Qualified vendors are invited to submit sealed bids, subject to conditions and instructions as specified, for the furnishing of:
RFB NO: 18-0026	WATER MANAGEMENT SERVICES (ANNUAL CONTRACT)
GENERAL SCOPE	Provide a comprehensive water management program for the cooling towers, boilers and closed loop systems operated by Columbus Consolidated Government. The contract term will be for two (2) years, with the option to renew for three additional twelve-month periods.
DUE DATE	January 17, 2018 – 2:30 PM (EST) Bids must be received and date/time stamped on or before the due date by the Finance Department/Purchasing Division, 5 th Floor – Government Center, 100 10 th St, Columbus, GA. Bids will be opened during the 3:00 PM hour in the Conference Room of the Purchasing Division. Bidders are not required, but are invited to attend the bid opening.
SITE VISIT	No later than five (5) business days before the RFB due date, vendors desiring to do so may schedule a site visit to view the work area(s). To schedule the site visit, contact Johnny Harp (Facilities Maintenance Manager) at (706) 225-4347 or jharp@columbusga.org .
ADDENDA	<u>IMPORTANT INFORMATION</u> Any and all addenda will be posted on the Purchasing Division's web page, at https://www.columbusga.org/finance/purchasing/docs/opportunities/Bid_Opportunities.htm . It is the vendors' responsibility to periodically visit the web page for addenda before the due date and prior to submitting a quote.
NO BID RESPONSE	Refer to the form on page 3 if you are not interested in this invitation.

**Andrea J. McCorvey
Purchasing Manager**

IMPORTANT INFORMATION

e-Notification

Effective December 31, 2014, Columbus Consolidated Government (the City) discontinued mailing postcard notifications to its registered vendors. The City is using the Georgia Procurement Registry e-notification system. You must register with the Team Georgia Market Place/Georgia Procurement Registry to receive future procurement notifications via

<http://doas.ga.gov/state-purchasing/suppliers/getting-started-as-a-supplier>

If you have any questions or encounter any problems while registering, please contact the Team Georgia Marketplace Procurement Helpdesk:

Telephone: 404-657-6000

Fax: 404-657-8444

Email: procurementhelp@doas.ga.gov

STATEMENT OF "NO BID"

Complete and return this form immediately if you do not intend to Bid:

Email: hscheuttig@columbusga.org
Fax: (706) 225-3033, Attn: **Heather Scheuttig, Buyer**
Mail: Columbus Consolidated Government
Purchasing Division
P. O. Box 1340
Columbus, GA 31902-1340

We, the undersigned decline to bid on your **RFB No. 18-0026** for **Water Management Services** for the following reason(s):

- ☐ Specifications too "tight", i.e. geared toward one brand or manufacturer only (explain below)
- ☐ There is insufficient time to respond to the Invitation for Bids.
- ☐ We do not offer this product or service.
- ☐ We are unable to meet specifications.
- ☐ We are unable to meet bond requirements.
- ☐ Specifications are unclear (explain below).
- ☐ We are unable to meet insurance requirements.
- ☐ Other (specify below)

Remarks: _____

COMPANY NAME: _____

AGENT: _____

DATE: _____

TELEPHONE NUMBER: _____

EMAIL ADDRESS: _____

GENERAL PROVISIONS

THESE GENERAL PROVISIONS SHALL BE DEEMED AS PART OF THE BID SPECIFICATIONS. The provisions of the Procurement Ordinance for the Consolidated Government of Columbus, Georgia as adopted and amended by Council shall apply to all invitations for bids and award of all contracts and is specifically incorporated herein by this reference. A copy of the ordinance is on file in the Purchasing Division.

1. TERM "CITY." The term "City" as used throughout these documents will mean Consolidated Government of Columbus, GA.

2. PREPARATION OF FORM. Bid proposals shall be submitted on the forms provided by the City. All figures must be written in ink or typewritten. Figures written in pencil or erasures are not acceptable. However, mistakes may be crossed out, corrections inserted adjacent thereto, initialed in ink by the person signing the proposal. If there are discrepancies between unit prices quoted and extensions, the unit price will prevail. Failure to properly sign forms, in ink, will render bid incomplete.

3. EXECUTION OF THE BID PROPOSAL. Execution of the bid proposal will indicate the bidder is familiar and in compliance with all local laws, regulations, ordinances, site inspections, licenses, dray tags, etc.

4. BID SUBMISSION. Fax bid submissions will not be accepted as a response to the Invitation for Bids. Bids must be submitted in a sealed envelope or package. The exterior of the envelope or package must reference the bidder's name and address, the bid number, bid title, and must indicate the contents represent a "bid" or "no bid" submission. Failure to properly identify the bid submission may result in rejection of the bid.

5. BID DUE DATE. The bid submission must arrive in the Purchasing Division on or before the stated due date and time. Upon receipt, bids will be time and date stamped. Bids will remain sealed and secured until the stated due date and time for the bid opening.

6. BID OPENING. The Purchasing Division Manager or Purchasing staff appointee will open bids. The bid amount and other pertinent information as determined by the Purchasing Division Manager will be read and recorded. The bids as recorded at the bid opening represent draft tabulation and may include incorrect price extensions or transcription errors, and are subject to change if conflicting information is discovered during analysis of the bid responses. A bid tabulation will be made available to bidders after extensions have been checked and all other specification compliance has been determined. **In the essence of time, bidders may not be allowed to review bids at the bid opening. However, bidders will be allowed to make appointments to review the bids at a later date.**

7. LATE BIDS. It is the responsibility of the bidder to ensure bids are submitted by the specified due date and time. Bids received after the stated date and time will be returned, unopened, to the bidder. The official clock to determine the date and time will be the time/date stamp located in the Finance Department. All bids received will be time and date stamped by the official clock. The City will not be held responsible for the late delivery of bids due to the U.S. Mail Service, or any other courier service.

8. RECEIPT OF ONE SEALED BID. In the event only one sealed bid is received, no formal bid opening shall take place. First, the Purchasing Division shall conduct a survey of vendors to inquire of "no bid" responses and non-responsive vendors. If, from the survey, it is determined by the Purchasing Division that specifications need revision, the one bid received will be returned, unopened, to the responding vendor, with a letter of explanation and a new bid solicitation prepared. If it is determined that other vendors need to be contacted, the bid due date will be extended, and the one bid received will remain sealed until the new bid opening date. The vendor submitting the single bid will receive a letter of explanation. **If it is determined the one bid received is from the only responsive, responsible bidder, then the bid shall be opened by the Purchasing Division Manager or designee, in the presence of at least one other witness. The single bid will be evaluated by the using agency for award recommendation.**

9. RECEIPT OF TIE BIDS. In the event multiple responsive, responsible bidders are tied for the lowest price and all other terms and requirements are met by the all tied bidders, the award recommendation shall be as follows:

- Award to the local bidder, if one of the bidders has its principal place of business in Columbus, Georgia.
- If all or none of the bidders has its principal place of business in Columbus, Georgia, then award the bid to the bidder who has received the award previously.
- If neither bidder received the award previously, and neither of the tied bidders has its principal place of business in Columbus, Georgia, then the bid award shall be equally divided between the tied bidders.
- If it is not feasible to divide the award, and if all or none of the tied bidders has its principal place of business in Columbus, Georgia, and neither was awarded the bid previously, then all bids will be rejected and the bid will be re-advertised.

10. RECEIPT OF MULTIPLE BIDS. Unless otherwise stated in the bid specifications, the City will accept one and only one bid per vendor. Any unsolicited multiple bid(s) will not be considered. If prior to the bid opening, more than one bid is received from the same vendor, the following will occur: (1) the bidder will be contacted and required to submit written acknowledgment of the bid to be considered; (2) the additional bid(s) will be returned to the bidder unopened. If at the bid opening more than one bid is enclosed in a single bid package, the City will consider the vendor non-responsive and bids will be returned to the bidder.

11. CONDITION AND PACKAGING. Unless otherwise defined in the bid specifications, it is understood and agreed that any item offered or furnished shall be new, in current production and in first class condition, that all containers shall be new and suitable for storage or shipment, and that prices include standard commercial packaging.

12. FREIGHT/SHIPPING/HANDLING CHARGES. All freight, shipping, and handling charges shall be included in the bid price. The City will pay no additional charges.

13. CORRECTION OR WITHDRAWAL OF BID/CANCELLATION OF AWARDS. Corrections or withdrawals of inadvertently erroneous bids before or after bid opening, or cancellation of awards of contracts based on such bid mistakes may be permitted where appropriate. Mistakes discovered before bid opening may be modified or bid withdrawn by written notice received in the office of Purchasing prior to the time of the bid opening. After bid opening, no changes in bid prices or other provisions of bids prejudicial to the interest of the City or fair competition shall be permitted. In lieu of bid correction, a low bidder alleging a material mistake of fact may be permitted to withdraw its bid if the mistake is clearly evident, or if the bidder submits evidence that clearly and convincingly demonstrates that a mistake was made. All decisions to permit corrections or withdrawals of bids or to cancel awards or contracts based on bid mistakes will be supported by the written determination of the Purchasing Officer.

14. ADDENDA AND INTERPRETATIONS. If it becomes necessary to revise any part of this bid, a written addendum will be provided to all bidders. The City is not bound by any oral representations, clarifications, or changes made to the written specifications by City employees, unless such clarification or change is provided to the bidders in written addendum form from the Purchasing Officer. Bidders will be required to acknowledge receipt of the addenda (if applicable) in their sealed bid proposal. The vendor may provide an initialed copy of each addendum or initial the appropriate area on the bid form (pricing page). Failure to acknowledge receipt of the addenda (when applicable) will render bid incomplete. It is the bidder's responsibility to ensure that they have received all addenda.

15. BID EVALUATION AND AWARD. During the evaluation of bids, the City reserves the right to request clarification of bid responses and to request the submission of references, if deemed necessary for a complete evaluation of bid responses. Award will be made to the responsive and responsible bidder whose bid is most economical according to criteria designated in the solicitation. The determination of the lowest responsive and responsible bidder may involve all or some of the following factors: prices, conformity to specifications, financial ability to meet the contract, previous performance, facilities and equipment, availability of repair parts, experience, delivery promise, terms of payment, compatibility as required, other cost, and other objective and accountable factors, if any, (which are further described in the specifications). The City shall be the judge of the factors and will make the award in the best interest of the City.

16. TIME FOR CONSIDERATION. Bids must remain in effect for at least sixty (60) days after date of receipt to allow for evaluation.

17. BID SECURITY AND PERFORMANCE BOND. Bid security (Bid Bond) shall be required for all competitive sealed bids for construction contracts when the price is estimated by the Purchasing Officer to exceed \$10,000. Bid security shall be a bond provided by a surety company authorized to do business in the State, or in the form of a certified check. Such bonds may also be required on construction contracts under \$10,000 or other procurement contracts when circumstances warrant. Bid security shall be in an amount equal to at least five percent (5%) of the bid amount. The City will accept a copy of a bid bond at the bid opening. However, if a copy of a bid bond is submitted, the bidder must submit to the Purchasing Division the identical original document within five (5) days after the bid opening. **If the original document is not received within the five (5) days, the bid will not be considered.** When a construction contract is awarded in excess of \$25,000, the successful bidder will be required to furnish a **Performance Bond** executed by a surety company authorized to do business in the State. The performance bond shall be equal to one hundred percent (100%) of the price specified in the bid.

18. SUBCONTRACTING. Should bidder intend to subcontract all or any part of the work specified, name(s) and address(es) of sub-contractor(s) must be provided in bid proposal (use additional sheet if necessary). The bidder shall be responsible for subcontractor(s) full compliance with the requirements of the bid specifications. **THE**

COLUMBUS CONSOLIDATED GOVERNMENT WILL NOT BE RESPONSIBLE FOR PAYMENTS TO SUBCONTRACTORS.

19. DISQUALIFICATION OF BIDDERS AND REJECTION OF BIDS. Bidders may be disqualified and rejection of bid proposals may be recommended by the City for any (but not limited) to the following reasons:

- (A) Receipt after the time limit for receiving bid proposals as stated in the bid invitation.
- (B) Any irregularities contrary to the General Provisions or bid specifications.
- (C) Unbalanced unit price or extensions.
- (D) Unbalanced value of items.
- (E) Failure to use the proper forms furnished by the Consolidated Government.
- (F) Failure to complete the proposal properly
- (G) Omission of warranty, product literature, samples, acknowledgment of addenda or other items required to be included with bid proposal.
- (H) Failure to properly sign forms in ink.

The City reserves the right to waive any minor informality or irregularity. The City reserves the right to reject any and all bids.

20. BRAND NAMES "OR EQUAL". Whenever in this invitation any particular material, process and/or equipment are indicated or specified by patent, proprietary or brand name of manufacturer, such wording will be deemed to be used for the purpose of facilitating description of the material, process and/or equipment desired by the City. It is not meant to eliminate bidders or restrict competition in any bid process. Any manufacturers' names, drawings, trade names, brand names, specifications and/or catalog numbers used herein are for the purpose of description and establishing general quality levels. Bidders may propose equivalent equipment, services or manufacturer. Any proposal that is equivalent to or surpasses stated specifications will be considered. Determination of equivalency shall rest solely with the City. **Please Note: Due to existing equipment, specific manufacturers may be required to facilitate compatibility.**

21. ASSIGNMENT OF CONTRACTUAL RIGHTS. It is agreed that the successful bidder will not assign, transfer, convey or otherwise dispose of the contract or its right, title or interest in or to the same, or any part thereof, without previous consent of the City and any sureties.

22. DISCOUNTS. Terms of payments offered will be reflected in the space provided on the bid proposal form. Cash discounts will be considered net in the bid evaluation process. All terms of payment (cash discounts) will be taken and computed from the date of delivery of acceptable material or services, or the date of receipt of the invoice, whichever is later.

23. TAXES. The City is exempt from State Retail Tax and Federal Excise Tax. Tax Exemption No. GA Code Sec. 48-8-3. Federal ID No. 58-1097948.

24. FEDERAL, STATE AND LOCAL LAWS. All bidders will comply with all Federal, State, and Local laws and ordinances, relative to conducting business in Columbus, Georgia.

25. BID INCLUSIONS. When bid inclusions are required, such as warranty information, product literature/specifications, references, etc. The inclusions should reference all aspects of the specific equipment or service proposed by the bidder. Do not include general descriptive catalogs. References to literature or other required inclusions submitted previously do not satisfy this provision. Bids found to be in non-compliance with these requirements will be subject to rejection.

26. NON-COLLUSION. By signing and submitting this bid, bidder declares that its agents, officers or employees have not directly or indirectly entered into any agreements, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this bid. In the event, said bidder is found guilty of collusion, the company and agents will be removed from the City's bid list for one full year and any current orders will be canceled.

27. INDEMNITY. The successful bidder agrees, by entering into this contract, to defend, indemnify and hold City harmless from any and all causes of action or claims of damages arising out or under this contract.

28. DISADVANTAGED BUSINESS ENTERPRISE. Disadvantaged Business Enterprises (minority or women owned businesses) will be afforded full opportunity to submit proposals in response to this invitation and will not be discriminated against on the grounds of race, color, creed, sex, sexual orientation, gender identity or national origin in consideration for an award. It is the policy of the City that disadvantaged business enterprises and minority

business enterprises have an opportunity to participate at all levels of contracting in the performance of City contracts to the extent practical and consistent with the efficient performance of the contract.

29. AFFIRMATIVE ACTION PROGRAM - NON-DISCRIMINATION CLAUSE. The City has an Affirmative Action Program in connection with Equal Employment Opportunities. The successful bidder will comply with all Federal and State requirements concerning fair employment and employment of the handicapped, and concerning the treatment of all employees, and will not discriminate between or among them by reason of race, color, age, religion, sex, sexual orientation, gender identity, national origin or physical handicap.

30. AWARDS TO LOCAL BUSINESSES. Except for construction contracts, awards will be made to responsive and responsible local businesses proposing a cost not more than two percent (2%) above the low bid or quote for contracts involving an expenditure of \$25,000.00 or less and made to responsive and responsible local businesses proposing a cost not more than one percent (1%) above the low bid or quote for contracts involving an expenditure greater than \$25,000.00. (Ordinance No. 95-5). ****STATE OR FEDERALLY FUNDED PROJECTS EXCLUDED****

31. RIGHT TO PROTEST. A protest with respect to an Invitation for bids or Request for Proposals shall be submitted in writing no less than five (5) days prior to the opening of bids or the closing date of proposals to the Purchasing Officer. If the matter is not resolved, then an appeal may be filed with the City Manager or City Council.

32. FAILURE TO QUOTE. Vendors choosing not to submit a bid are requested to return a **Statement of "No Bid"**.

33. PRODUCT/EQUIPMENT DEMONSTRATION - SITE VISIT. During the evaluation of bids, the City reserves the right to request a demonstration or site visit of the product, equipment or service offered by a bidder. The demonstration or site visit shall be at the expense of the bidder. Bidders who fail to provide demonstration or site visit, as requested, will be considered non-responsive.

34. CANCELLATION PROVISIONS. When such action is in the best financial interest of the City, contracts for supplies to be purchased or services to be rendered under an annual (term) contract basis may be canceled and re-advertised at the discretion of the Purchasing Officer and in accordance with contract terms.

After the receipt of a product or piece of equipment, it is found that said item does not perform as specified and required, payment for said product or equipment will be withheld. The successful vendor will be notified of the non-performance in writing. After notification, the successful vendor will have ten (10) calendar days, from the date of notification, to deliver product or equipment that performs satisfactorily. If a satisfactory product is not delivered within 10 calendar days, from the notification date, the City will cancel the contract (purchase order) and award to the next low, responsive, responsible bidder. The vendor will be responsible for the pick-up or shipment of the unsatisfactory equipment or product.

35. QUESTIONS. Questions concerning specifications must be submitted, in writing, at least 5 (five) working days (Monday-Friday) prior to receipt date. Questions received less than five working days prior to receipt date will not be considered.

36. SAMPLES. When samples are required to be included with the proposal response, the bidder will be responsible for the following:

- 1) **Unless otherwise specified**, bidders are required to submit exact samples of item(s) bid. Do not submit sample of "like" item(s).
- 2) Affix an identification label to each individual sample to include bidder's name, bid name and number.
- 3) Make arrangements for the return of sample after the bid award. All shipping costs will be the responsibility of the bidder. If bidder does not make arrangements for return of sample, within 60 days after award, the sample will be discarded.

37. Governing Law: The parties agree that this Agreement shall be governed by the laws of Georgia, both as to interpretations and performance.

38. PAYMENT DEDUCTIONS. The City reserves the right to deduct, from payments to awarded vendor(s), any amount owed to the City for various fees, to include, but not limited to: False Alarm fees, Ambulance fees, Occupation License Fees, Landfill fees, etc.

39. PAYMENT TERMS. The City's standard payment term is usually net 30 days, after successful receipt of goods or services. Payment may take longer if invoice is not properly documented or not easily identifiable, goods/services are not acceptable, or invoice is in dispute.

NOTICE TO VENDORS

Columbus Council, by Ordinance 92-60 has prohibited any business that is owned by any member of Columbus Council or the Mayor, or any business in which any member of Columbus Council or the Mayor has a substantial pecuniary interest from submitting a bid for goods or services to the Consolidated Government of Columbus, Georgia.

Likewise, by Ordinance 92-61, no business which is owned by any member of any board, authority or commission, subordinate or independent entity, or any business in which any member of any board, authority or commission, subordinate or independent entity has substantial pecuniary interest may submit a bid to the Consolidated Government if such bid pertains to the board, authority or commission.

**DO YOU HAVE QUESTIONS, CONCERNS OR NEED
CLARIFICATION ABOUT THIS SOLICITATION?**

**COMMUNICATION CONCERNING ANY SOLICITATION CURRENTLY
ADVERTISED MUST TAKE PLACE IN WRITTEN FORM AND ADDRESSED
TO THE PURCHASING DIVISION.**

ALL QUESTIONS OR CLARIFICATIONS CONCERNING THIS
SOLICITATION SHALL BE SUBMITTED IN WRITING. THE CITY WILL NOT
ORALLY OR TELEPHONICALLY ADDRESS ANY QUESTION OR
CLARIFICATION REGARDING BID/PROPOSAL SPECIFICATIONS. IF A
VENDOR VISITS OR CALLS THE PURCHASING DIVISION WITH SUCH
QUESTIONS, HE OR SHE WILL BE INSTRUCTED TO SUBMIT THE
QUESTIONS IN WRITING.

**ALL CONTACT CONCERNING THIS SOLICITATION SHALL BE MADE
THROUGH THE PURCHASING DIVISION.** BIDDERS SHALL NOT
CONTACT CITY EMPLOYEES, DEPARTMENT HEADS, USING AGENCIES,
EVALUATION COMMITTEE MEMBERS OR ELECTED OFFICIALS WITH
QUESTIONS OR ANY OTHER CONCERNS ABOUT THE SOLICITATION.
QUESTIONS, CLARIFICATIONS, OR CONCERNS SHALL BE SUBMITTED
TO THE PURCHASING DIVISION IN WRITING. IF IT IS NECESSARY THAT
A TECHNICAL QUESTION NEEDS ADDRESSING, THE PURCHASING
DIVISION WILL FORWARD SUCH TO THE USING AGENCY, WHO WILL
SUBMIT A WRITTEN RESPONSE.

THE PURCHASING DIVISION WILL FORWARD WRITTEN RESPONSES TO
THE RESPECTIVE BIDDER OR IF IT BECOMES NECESSARY TO REVISE
ANY PART OF THIS SOLICITATION, A WRITTEN ADDENDUM WILL BE
ISSUED TO ALL BIDDERS.

THE CITY IS NOT BOUND BY ANY ORAL REPRESENTATIONS,
CLARIFICATIONS, OR CHANGES MADE TO THE WRITTEN
SPECIFICATIONS BY CITY EMPLOYEES, UNLESS SUCH CLARIFICATION
OR CHANGE IS PROVIDED TO THE BIDDERS IN A WRITTEN ADDENDUM
FROM THE PURCHASING MANAGER.

BIDDERS ARE INSTRUCTED TO USE THE ENCLOSED
"QUESTION/CLARIFICATION FAX FORM" TO FAX OR EMAIL QUESTION.

ANY REQUEST, AFTER A SOLICITATION HAS CLOSED AND PENDING
AWARD, MUST ALSO BE SUBMITTED IN WRITING TO THE PURCHASING
DIVISION.

QUESTION/CLARIFICATION FORM

DATE: _____

TO: Heather Scheuttig, Buyer
Email : hscheuttig@columbusga.org
Fax : (706) 225-3033

RE: Water Management Services (Annual Contract); RFB No. 18-0026

Questions/clarification requests must be submitted at least (5) *business* days before the due date:

[illegible]

From:			
Company Name		Website	
Representative		Email Address	
Complete Address		City	State Zip
Telephone Number		Fax Number	

GENERAL SPECIFICATIONS
WATER MANAGEMENT SERVICES
(ANNUAL CONTRACT)
RFB No. 18-0026

1. SCOPE OF WORK

It is the intent of the Columbus Consolidated Government (City) to establish an annual contract with a qualified contractor that meets or exceeds the requirements of the specifications to provide a maximum comprehensive water management program for the cooling towers, boilers, and closed loop systems operated by the City. This treatment program will include, but is not limited to, the prevention of mineral scale, corrosion and bacterial growth in the water systems, water conservation, technical support, service and reporting. This water management program may have additional buildings and/or new equipment added during the term of the contract. If additional buildings and/or new equipment must be added to the contract, contracted vendor will be asked to provide a price quote.

The City reserves the right to waive any informality in any proposal, and to reject any or all bids. The City also reserves the right not to enter into any contract as a result of this invitation for bid.

II. SITE VISIT/WALK-THRU

No later than five (5) business days before the proposal due date, vendors desiring to do so may schedule a site visit to view the work area(s). To schedule the site visit, contact Johnny Harp (Facilities Maintenance Manager) at 706-2254347 or jharp@columbusga.org.

III. TERM OF CONTRACT

- A.** The term of the contract shall be for two (2) years, with the option to renew for three (3) additional twelve-month periods.

Notice of intent to renew will be given to the contractor in writing by the City Purchasing Division Director, normally sixty days before the expiration date of the current contract. This notice shall not be deemed to commit the City to a contract renewal.

It should be noted that multi-year contracts may be continued each fiscal year only after funding appropriations and programs approval have been granted by the Council of the Consolidated Government of Columbus, GA. In the event the necessary funding is not approved, the affected multi-year contract becomes null and void, effective July 1st of the fiscal year for which such approval has been denied.

B. Termination for Convenience

For the protection of both parties, either party giving 30 days' prior notice in writing to the other party may cancel this contract.

IV. ESCALATION CLAUSE

Contract pricing shall remain fixed for the initial two (2) year(s) term of the contract. After the initial term, Contractor may request a price escalation by submitting a fully documented request for a review of the pricing. Such escalation shall not exceed a 5%

increase. Price escalation requests must be submitted by January 30th so as to allow Departments to factor the increases into their budgets for the next fiscal year, which will begin July 1.

The Using agency(cies) and Purchasing Manager will review the request and shall approve or disapprove the increases based on budget constraints and other price comparisons. **If approved, the price increase shall not commence until the next fiscal year, which will begin July 1.**

If for any reason the contractor has a price increase that exceeds five percent (5%), the price increase will be evaluated on a case-by-case basis. The City and the Contractor will have the option to discuss and make adjustments to the requested increase. If either party declines approval of the adjustments, the contract will be considered cancelled on the scheduled expiration date of the contract.

V. BRAND NAMES

It is not the intent of Columbus Consolidated Government (City) to restrict competition in any purchasing process. Any manufacturers' names, drawings, trade names, brand names, information and/or catalog numbers used herein are for purpose of description and establishing general quality levels. Such references are not intended to be restrictive; any equivalent products of any manufacturer may be offered. Any bid that is equivalent to or surpasses these specifications will be considered; determination of equivalency shall rest solely with the City.

VI. QUESTIONS/ADDENDA

Questions and requests for clarification must be submitted **within five (5) business days of the due date** (see pages 9 & 10). Changes to the specifications (if any) will be provided in the form of an addendum, which will be posted on the web page of the Finance Department/Purchasing Division of Columbus Consolidated Government at http://www.columbusga.org/finance/Excel_Docs/Bid_Opportunities.htm. **It is the vendors' responsibility to periodically visit the web page for addenda before the due date and prior to submitting a quote.**

VII. VENDOR QUALIFICATIONS

The work to be accomplished under this contract requires technical expertise. Incorrect work could result in a threat to the public health, welfare or environment. In reviewing the bids to determine who is the lowest responsible bidder, the City will take into consideration the extent to which the bid conforms to the bid specifications and the qualifications of the bidder to satisfactorily implement the requirements of the Contract. The City specifically reserves the right to reject any bids for which the bidder fails to demonstrate the ability to complete the service required in a responsible manner. Vendors shall complete a "Statement of Bidder's Qualifications" (**Form 4**), to allow the City to determine whether the vendor is qualified to perform the work specified.

VIII. INSURANCE

The contractor shall be required, at their own expense, to furnish to the City of Columbus Purchasing Division, evidence showing the insurance coverage to be in force throughout the term of the contract. Insurance requirements are listed on the attached **Insurance Checklist (Form 1)**. **The limits shown are minimum limits. Vendor shall indicate the actual limit they will provide for each insurance requirement. The bidder shall complete the Insurance Checklist and include with bid response. Certificate of**

Insurance is acceptable. The Insurance Checklist will indicate to the City, the bidder's ability and agreement to provide the required insurance, in the event of contract award.

The successful candidate shall provide the required Certificates of Insurance within **10 business days** after award notification. The Certificates of Insurance will be included with the contract documents prior to signing.

IX. GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT/E-VERIFY

In accordance with the Georgia Security and Immigration Compliance Act/E-Verify, every public employer, every contractor of a public employer, and every subcontractor of a public employer's contractor must register and participate in a federal work authorization program (see http://www.dol.state.ga.us/spotlight/sp_sb_529_new_rules.htm). To access your E-Verify Company Identification Number, see <https://e-verify.uscis.gov/emp/vislogin.aspx?JS=YES>. A properly completed, notarized E-Verify Affidavit (**Form 2**) must be included with sealed proposal; failure to do so will render the firm's proposal non-responsive and ineligible for further consideration.

X. INDEMNIFICATION

The Contractor covenants to save, defend, hold harmless, and indemnify the City, and all of its officers, departments, agencies, agents, and employees (collectively the "City") from and against any and all claims, losses, damages, injuries, fines, penalties, costs (including court costs and attorney's fees), charges, liability, or exposure, however caused, resulting from, arising out of, or in any way connected with the Contractor's intentional, negligent, or grossly negligent acts or omissions in performance or nonperformance of its work called for by the Contract Documents.

XI. BID SUBMISSION REQUIREMENTS:

Each bidder shall include the following information with bid submission. Bidder shall submit **THE ORIGINAL AND 1 IDENTICAL COPIES**. The City reserves the right to request any omitted information, **WHICH DOES NOT AFFECT THE SUBMITTED BID PRICE**. Bidders shall be notified, in writing, and shall have two (2) days, after notification to submit the omitted information (to exclude E-Verify). If the omitted information is not received within two (2) days, the Bidder shall be deemed non-responsive and the Bid Submission will be deemed **"Incomplete"**:

A. Bid Form: Complete Form 5

B. Statement of Qualifications & Work Guarantee: Complete Form 4

C. Insurance (Refer to page 12, section VI, regarding **Form 1**)

D. E-Verify/GSICA Form (Refer to page 13, Section VII, regarding **Form 2**)

E. General Requirements and Specifications: Water Treatment Program

1. Provide proof that all products meet or exceed guidelines set by EPA and OSHA, **Item B, Number 1, Page 17 of 35.**

2. Provide technical and safety information, **Item C, Numbers 1 – 7, Page 17 of 35.**

E. Contract Signature Page: Complete Form 6

F. Addenda: Vendors must include acknowledgment of receipt of addenda (if any) in their sealed bid. Provide an initialed copy of each addendum or initial the appropriate area on bid form (pricing page). Addenda will be posted at

https://www.columbusga.org/finance/purchasing/docs/opportunities/Bid_Opportunities.htm.

Vendors are responsible for periodically visiting the web page, to check for addenda, prior to the bid due date and before submitting a bid.

THE FOLLOWING ITEMS WILL BE REQUIRED OF THE AWARDED VENDOR(S) PRIOR TO

CONTRACT SIGNING OR ISSUANCE OF PURCHASE ORDER. AFTER NOTIFICATION, THE AWARDED VENDOR(S) WILL HAVE FIVE (5) BUSINESS DAYS TO PROVIDE THE INFORMATION BELOW, OR THE NEXT RESPONSIVE, RESPONSIBLE BIDDER WILL BE RECOMMENDED FOR AWARD.

- 1) **Business License:** Vendors located in Muscogee County shall submit a current copy of their City of Columbus Business License (Occupation License). If the business is not located in Muscogee County and has proof of being properly licensed by a municipality in Georgia, and paid applicable occupation taxes in that city, the vendor will not be required to pay occupation taxes in Columbus, Georgia.

If the business location is not in Georgia, vendor must provide a current copy of their active Articles of Incorporation from the State and/or a current business license from the City/State in which business is located.

If you have questions regarding this requirement, please contact Yvonne Ivey, Revenue Manager: 706-225-3091.

- 2) **W-9 Request for Taxpayer Identification Number and Certification (Form 3)**

Bids must be delivered sealed in an envelope or package. The envelope or package should reference the bidder's name, full address and the bid number and/or bid name. Mail or hand-deliver bid to:

Columbus Consolidated Government
Purchasing Division

RE: RFB No. 18-0026– Water Management Services (Annual Contract)

(Mail) P. O. Box 1340
Columbus, GA 31902-1340

(Deliver) 5th Floor – Finance Department
100 10th Street
Columbus, Georgia 31901

BIDS MUST REACH THE OFFICE OF THE PURCHASING DIVISION NO LATER THAN 2:30 PM ON BID OPENING DATE. BIDS RECEIVED AFTER 2:30 PM WILL NOT BE ACCEPTED UNDER ANY CIRCUMSTANCES.

XII. AWARD/INVOICES

A. Award: This contract will be awarded to the lowest responsive, responsible bidder(s). The City will be the judge of the factors and will make the award accordingly. Should the successful bidder not be able to supply the required services, the City reserves the right to procure from other sources.

B. Invoices: Invoices shall delineate hours worked, material cost, etc. All invoice rates shall be in accordance with this contract. After receipt of goods/services and upon satisfactory delivery, the successful vendor shall forward invoice(s) to the following address:

Columbus Consolidated Government
Accounting Division
P. O. Box 1340
Columbus, Georgia 31902-1340

The invoice(s) shall reference the bid number (RFB No. 18-0026)

XIII. TERMINATION OF CONTRACT

A. Default: If the contractor refuses or fails to perform any of the provision of this contract with such diligence as will ensure its completion within the time specified in this contract, or any extension thereof, otherwise fails to timely satisfy the contract provisions, or commits any other substantial breach of this contract, the Purchasing Division Director may notify the contractor in writing of the delay or non-performance and if not cured within ten (10) days or any longer time specified in writing by the Purchasing Division Director, such director may terminate the contractor's right to proceed with the contract or such part of the contract as to which there has been delay or a failure to properly perform.

In the event of termination in whole or in part the Purchasing Division Director may procure similar supplies or services, from other sources, in a manner and upon terms deemed appropriate by the Purchasing Division Director. The contractor shall continue performance of the contract to the extent it is not terminated and shall be liable for excess costs incurred in procuring similar goods or services.

B. Compensation: Payment for completed services delivered and accepted by the City shall be at the contract price. The City may withhold from amounts due the contractor such sums as the Purchasing Division Director deem necessary to protect the City against loss because of outstanding liens or claims of former lien holders and to reimburse the City for the excess costs incurred in procuring similar goods and services.

C. Excuses for Nonperformance or Delayed Performances: Except with respect to defaults of subcontractors, the contractor shall not be in default by reason of any failure in performance of this contract in accordance with its terms, if the contractor has notified the Purchasing Division Director within 15 days after the cause of the delay and the failure arises out of causes such as: acts of God; acts of public enemy; acts of the City and any other governmental entity in its sovereign or contractual capacity; fires; floods; epidemics; quarantine restrictions; strikes or other labor disputes; freight embargoes; or unusually severe weather. If the failure to perform is caused by the failure of a subcontractor to perform or to make progress, and if such failure arises out of causes similar to those set forth above, the contractor shall not be deemed in default, unless the supplies or services to be furnished by the subcontractor were reasonably obtainable from other sources in sufficient time to permit the vendor to meet the contract requirements.

Upon request of the vendor, the Purchasing Division Director shall ascertain the facts and extent of such failure, and, if such director determines that any failure to perform was occasioned by any one or more of the excusable causes, and that, but for the excusable cause, the contractor's progress and performance would have met the terms of the contract, the delivery schedule shall be revised accordingly.

DETAILED SPECIFICATIONS
WATER MANAGEMENT SERVICES
(ANNUAL CONTRACT)
RFB No. 18-0026

Scope of Work

- A. Provide all labor, materials and equipment to provide a complete service-oriented water treatment management program for the treatment of all cooling towers, boilers and closed water loops operated by the City of Columbus, as listed, but not limited to the attached equipment listing.
- B. In addition, the water treatment program will include all chemical products, any required equipment and professional consulting and management services to:
- 1) Improve program safety and reduce program risk/liability.
 - 2) Reduce fuel and electrical consumption through improved heat transfer efficiency. This is accomplished by minimizing scale, corrosion, fouling and microbiological growth that create deposits on heat transfer surfaces and conserve water through maintaining cycles of concentrations in each system.
 - 3) Minimize repair and maintenance costs associated with replacement and cleaning of equipment due to scale, corrosion, fouling or microbiological activity.
 - 4) Provide professional, knowledgeable and involved sales/service personnel to ensure program success.
 - 5) Accurately monitor program results with quantifiable business oriented justifications.
 - 6) Thoroughly train City of Columbus maintenance personnel on the maintenance and control of the program.

REQUIREMENTS FOR
WATER MANAGEMENT SERVICES

- A. General – our goal is to partner with a vendor that will be able to provide maximum customer satisfaction. To attain this goal, we are seeking to identify a vendor with the following qualifications:
- 1) The vendor should be primarily engaged in the sale of water treatment chemicals.
 - 2) The vendor should have been in business for a minimum of ten (10) years.
 - 3) All chemicals and biocide used for this contract shall be EPA and sub-registration approved and meet all federal, state and local laws.
 - 4) Qualified vendors must supply the City of Columbus with the names and addresses of three (3) references with similar cooling, heating and closed loop systems.

B. Results – The efficiency of our HVAC equipment must be optimized from the standpoint of water, sewer, fuel, electricity, chemical and labor. To help attain this goal, we require the following:

- 1) Products supplied by the vendor must be of the highest quality. All products must meet or exceed the guidelines set forth by the EPA and OSHA to meet all limits and maintain a safe work environment.
- 2) To accurately monitor equipment efficiencies/results, vendor must run on-site analysis of each treated system to monitor chemical residual levels, cycles of concentrations and overall system conditions. This analysis shall be supported by microbiological surveys, corrosion studies by coupon and corroder and photographic records of each system when it is open for inspection. These analysis and inspections will form the basis for reports to the City of Columbus, recommending corrective action to achieve intended program results. Vendor has the choice of using the coupon or corroder study. If the coupon study is used, vendor must provide an itemized listing of coupon racks, parts and cost.
- 3) On-site analysis of each treated system shall be conducted as set forth: Cooling Towers – twice per month, Hot Water Boilers and Closed Loop Systems – monthly. Complete reports of analysis and recommended changes shall be completed and reviewed with City personnel.
- 4) In addition to field testing capabilities, the vendor shall maintain a laboratory facility capable of conducting complete water, deposit and microbiological studies. Full time vendor employees must staff this laboratory, to provide water analysis, corrosion coupon analysis, microbiological studies and resin analysis. If using an independent lab, vendor must provide lab name and address. If using own laboratory, resume of employee(s) performing testing must be submitted.
- 5) Provide 100% capacity for containment.

C. In order to have quick access to all technical and safety information regarding the water treatment program, the vendor must provide (as a minimum) the following information (include a copy of each with the submission):

- 1) An outline of the chemical program
- 2) All chemical control test procedures
- 3) Log Sheets
- 4) Product Bulletins
- 5) Material Safety Data Sheets (MSDS)
- 6) Feed/Control Equipment Specifications
- 7) Service Report

Vendor shall provide training session for City of Columbus personnel as needed. Training will include the basics of water treatment, how to perform tests and monitor chemical program results, how to work safely with chemical products, and general training regarding the function of boilers, cooling towers and closed loop systems.

D. Safety – Our organization places the utmost emphasis on safety. Based on this primary concern, all programs must meet the following minimum specifications:

- 1) Vendor must provide MSDS sheets to ensure a safe environment for plant personnel. These MSDS shall comply with all state and federal laws concerning the handling of hazardous materials. MSDS shall accompany all first-time orders and the vendor must operate a 24-hour, 7-day per week emergency number which can be called for emergency information regarding chemical spills and/or accidents involving vendor supplied products.
- 2) Vendor's chemical feed and delivery system must eliminate contact with liquid chemical products in all applications.
- 3) Chemical deliveries must be made to "point of feed". This includes applications that require products to be transported up/down stairs. All empty containers shall be removed from the premises by vendor. Drums can be used.
- 4) To eliminate the long-term risk of chemical spills, all on-site storage of liquid chemicals shall utilize containment, as outlined by industry standards.
- 5) To prevent microbiologically induced health risks, vendor must have the capability of conducting on-site microbiological studies, with results reported within two (2) days. Testing shall be conducted on each cooling tower system quarterly.

E. Cleaning Up – The Contractor shall at all times keep the premises free from accumulation of waste materials or rubbish caused by his operation. At the completion of the work, all waste materials, rubbish and tools shall be removed from and about the project.

F. Liability – Our intent is to significantly reduce the liability and risk associated with the water treatment chemical program. To attain this goal, we require the following:

- 1) Eliminate drum disposal and the risk of spills, all product must utilize containment, and all empty containers shall be removed from the plant site by vendor personnel.
- 2) The vendor must maintain a minimum of \$ 1,000,000.00 in liability insurance, to protect the City of Columbus; it's employees and equipment.

SPECIFICATIONS CHEMICAL TREATMENT

Cooling tower treatment shall consist of a blended corrosion/scale inhibitor and a liquid biocide program for the prevention of algae, fungi and slime formation.

The corrosion inhibitor shall be Organic for protection of the yellow metals in the system.

To prevent algae and bacterial growth, a primary biocide shall be a poly-quat product with a secondary liquid biocide for the prevention of algae/bacteria to be used as an alternate.

Hot water boilers/closed loops treatment shall consist of a nitrate/borate based program. To

prevent corrosion, nitrite levels shall be maintained at a residual level of 900 – 1000 ppm. All systems are tight.

SPECIFICATIONS Equipment List

It will be the responsibility of the successful bidder to provide each cooling tower with new chemical pumps and bleed controllers for the Government Center and County Jail.

Cooling Towers – Must maintain six (6) cycles of concentration in tower systems.

Government Center - 100 10th Street (3)
 City Services Center (CSC) – 3111 Citizens Way (2)
 Civic Center - 400 4th Street (4)
 Muscogee County Jail - 700 10th Street (2)
 Public Safety Complex - 510 10th Street (1)
 Trade Center – 801 Front Avenue (1)

All cooling towers consist of the following:

Government Center	Cooling Tower volume 4,000 gals x 2; GPM is 1,700 x 2
City Services Center (CSC)	Evapco Cooling Towers, 450 Gal Per Min x 2
Public Safety	Volume 957 gals x 2; GPM 600 x 2
Civic Center	Volume 3,174 gals x 2 and 2,891 gals x 1; GPM 1,300 x 3
County Jail	Volume 1,350 gals x 2; GPM 830 x 1
Trade Center	Evapco AT-212-924, Tonnage = 1030 Capacity

Chillers

Location:	Description:
Government Center – 100 10th Street (2)	Trane 500 Ton Chillers Earth Wise Centravac Refrigerant 123 Model #CVH555 Serial # 3KO7622 & Serial # LO3KO7617 Operated 10 months per year
City Services Center (CSC) – 3111 Citizens Way (2)	Trane 156 Ton Chillers Model RTWD 150's Refrigerant 134A
Civic Center – 400 4 th Street	(2) York Centrifugal 600 Ton Chillers (1) York Centrifugal 300 Ton Chiller Refrigerant 123 (1) Ammonia/Ice System – BAC Condenser Operated 5-6 months per year
Public Safety Building – 510 10 Street (2)	Trane Helical Rotary 195 Ton Chillers Model #RTHB215 Serial # U95J00431 & # U95J00432 Refrigerant 22 Operated (one at a time) 12 months per year

Location:	Description:
Muscogee County Jail – 700 10 th Street (1)	Trane Centrifugal 200 Ton Chiller Model #RTADVCLDAD6A Serial #VO9JO5604 Refrigerant 22 Operated 12 months per year
Trade Center – 801 Front Avenue (2)	Carrier Chiller (Small) Model #19XR3737333CLH64 Serial #4802Q67591 Tonnage: 360 R134A Refrigerant 480/3/60 Carrier Chiller (Large) Model #19XR5757445DDH64 Serial #4802Q67592 Tonnage: 660 R134A Refrigerant 480/3/60

Boilers

Location:	Description:
Government Center – 100 10 th Street (1)	Model S-250-W Sellers Engineering Serial #4683 BTU Input – 10,463,000 Operated 5 months per year
Muscogee County Jail – 700 10 th Street (1)	Model #3PW-100-GO-GP Burnham Serial #14120 BTU Input – 4183 MBH BTU Output – 3348 MBH Operated 5 months per year
Dog Pound – 4910 Milgen Road (1)	Model #DVE200A Serial # 0825R000022 Watts 45,000 Operated 5 months per year
Fire Station 1 – 205 10 th Street (1)	Model #210-6-W-S Peerless Serial #210-8-026 BTU Input – 1,050,000 BTU Output – 840,000 Operated 5 months per year
Fire Station 6 – 1126 Brown Avenue (1)	Model #210-5-W-S Peerless Serial #210-8025 BTU Input – 840,000 BTU Output – 672,000 Operated 5 months per year
Muscogee County Prison – 7175 Sacerdote Lane (2)	Model #HS-1458A-CECRCAA Raypak Serial #9604130903 BTU Input – 1,457,000 BTU Output – 1,202,940 Operated 5 months per year

Location:	Description:
	Model #H3-1458A-CECRAA Raypak Serial #9604130902 BTU Input – 1,457,000 BTU Output – 1,202,940 Operated 5 months per year
Trade Center – 801 Front Avenue (8)	Lochinvar Armor Condensing Gas Water Heater Model #AWN601PM Serial #1714105588534 Boiler Capacity: 600,000 BTU Horsepower: 17 Maximum Working PSI: 160 Lochinvar Armor Condensing Gas Water Heater Model #AWN601PM Serial #1714105588533 Boiler Capacity: 600,000 BTU Horsepower: 17 Maximum Working PSI: 160 Lochinvar Storage Tank Model #RGA0504 Serial #105724995 504 Gallons Capacity 125 PSI Manufactured: 2017 Lochinvar Storage Tank Model #RGA0504 Serial #105724993 504 Gallons Capacity 125 PSI Manufactured: 2017 Raypak Hot Water Boiler 2003 Model #H2-3001 Serial #030554597 BTU/HR Input Rate: 600,000 BTU/HR Output: 2,460,000 Raypak Hot Water Boiler 2003 Model #H2-3001 Serial #030554598 BTU/HR Input Rate: 600,000 BTU/HR Output: 2,460,000 Weil-McLain Boiler 2003 Model #88 Series 1 MAWP Water: 50 PSI MAWP Steam: 15 PSI Max Water Temp: 250 F

Location:	Description:
	Weil-McLain Boiler 2003 Model #88 Series 1 MAWP Water: 50 PSI MAWP Steam: 15 PSI Max Water Temp: 250 F

SOLICITATION ID: RFB NO. 18-0026

WATER MANAGEMENT SERVICES (ANNUAL CONTRACT)

INSURANCE CHECKLIST

**CERTIFICATE OF INSURANCE MUST SHOW ALL
COVERAGE AND ENDORSEMENTS INDICATED BY "X"**

CSL = Combined Single Limit; BI = Bodily Injury; PD=Property Damage

Required Coverage(s)		Limits (Figures denote minimums)	Bidders Limits/Response
X	1. Worker's Compensation and Employer's Liability	STATUTORY REQUIREMENTS	
	Comprehensive General Liability:		
X	2. General Liability Premises/Operations	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
X	3. Independent Contractors and Sub - Contractors	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
X	4. Products Liability	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
X	5. Completed Operations	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
X	6. Contractual Liability (Must be shown on Certificate)	\$ 1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
	Automobile Liability:		
X	7. Owned/Hired/Non-Owned Vehicles/ Employer non-ownership	\$1 Million BI/PD each Accident, Uninsured Motorist	
	Other:		
	8. Miscellaneous Errors and Omissions	\$1 Million per occurrence/claim	
X	9. Umbrella/Excess Liability	\$1 Million Bodily Injury, Property Damage and Personal Injury	
	10. Personal and Advertising Injury Liability	\$1 Million each offense, \$1 Million annual aggregate	
	11. Professional Liability	\$1 Million per occurrence/claim	

Required Coverage(s)		Limits (Figures denote minimums)	Bidders Limits/Response
	12. Architects and Engineers	\$1 Million per occurrence/claim	
	13. Asbestos Removal Liability	\$2 Million per occurrence/claim	
	14. Medical Malpractice	\$1 Million per occurrence/claim	
	15. Medical Professional Liability	\$1 Million per occurrence/claim	
	16. Dishonesty Bond		
	17. Builder's Risk	Provide Coverage in the full amount of contract	
	18. XCU (Explosive, Collapse, Underground) Coverage		
	19. USL&H (Long Shore Harbor Worker's Compensation Act)		
	20. Contractor Pollution Liability	\$2 Million per occurrence/claim	
	21. Environmental Impairment Liability	\$2 Million per occurrence/claim	
X	22. Carrier Rating shall be Best's Rating of A-VII or its equivalents		
X	23. Notice of Cancellation, non-renewal or material change in coverage shall be provided to City at least 30 days prior to action.		
X	24. The City shall be named Additional Insured on all policies		
X	25. Certificate of Insurance shall show Bid Number and Bid Title		
	26. Pollution:	\$2 Million per occurrence/claim	

*If offeror's employees will be using their privately-owned vehicles while working on this contract and are privately insured, please state that fact in the **Bidders Limits/Response** column of the insurance checklist.

BIDDER'S STATEMENT:

If awarded the contract, I will comply with contract insurance requirements and provide the required Certificate(s).

BIDDER NAME: _____

AUTH. SIGNATURE: _____

*****COMPLETE THIS PAGE AND RETURN WITH BID*****

VENDOR INFORMATION REGARDING
GEORGIA SECURITY AND IMMIGRATION COMPLIANCE
and

House Bill 87, also known as,
The Illegal Immigration Reform and Enforcement Act of 2011

Section 3 of House Bill 87 amends O.C.G.A. §13-10-91.

O.C.G.A. §13-10-91(b)(1) states, in part, “A public employer shall not enter into a contract ... for the physical performance of services unless the contractor registers and participates in the federal work authorization program.”

Accordingly, the affidavits on the pages that follow relate to documentation you must provide the City.

All contractors must complete the attached “CONTRACTOR AFFIDAVIT”****. Additionally, if you utilize subcontractors, they must complete the “SUBCONTRACTOR AFFIDAVIT” and or the “SUB-SUBCONTRACTOR AFFIDAVIT.”

***In lieu of the affidavit required by this subsection, a contractor, subcontractor, or sub-subcontractor who has no employees and does not hire or intend to hire employees for purposes of satisfying or completing the terms and conditions of any part or all of the original contract with the public employer shall instead provide a copy of the state issued driver's license or state issued identification card of such contracting party and a copy of the state issued driver's license or identification card of each independent contractor utilized in the satisfaction of part or all of the original contract with a public employer. A driver's license or identification card shall only be accepted in lieu of an affidavit if it is issued by a state within the United States and such state verifies lawful immigration status prior to issuing a driver's license or identification card.

Information is available at: http://www.dol.state.ga.us/spotlight/sp_sb_529_new_rules.htm

"GEORGIA SECURITY AND IMMIGRATION COMPLIANCE"
Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of **Columbus Consolidated Government** has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Company ID Number (*numerical, 4-7 digits*)

Date of Authorization

****See <https://e-verify.uscis.gov/emp/vislogin.aspx?JS=YES> to access your E-Verify Company Identification Number.**

Date of Authorization

Name of Contractor

Water Management Services; RFB No. 18-0026

Name of Project

Columbus Consolidated Government

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, ___, 201__ in _____ (city), _____ (state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE _____ DAY OF _____, 201__.

NOTARY PUBLIC

My Commission Expires:

A properly completed, notarized E-Verify Affidavit must be included with sealed proposal; failure to do so will render the firm's proposal non-responsive and ineligible for further consideration.

"GEORGIA SECURITY AND IMMIGRATION COMPLIANCE"
Subcontractor Affidavit under O.C.G.A. § 13-10-91(b)(4)

By executing this affidavit, the undersigned *subcontractor* verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract for

(Name of subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract)
and

(Name of Contractor)

on behalf of **Columbus Consolidated Government** has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned sub-subcontractor will continue to use the federal work authorization program throughout the contract period and the undersigned sub-subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present an affidavit to the sub-subcontractor with the information required by O.C.G.A. § 13-10-91(b). The undersigned sub-subcontractor shall submit, at the time of such contract, this affidavit to _____

(Name of subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract)

Additionally, the undersigned sub-subcontractor will forward notice of the receipt of any affidavit from a sub-subcontractor to _____

(Name of subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract)

Sub-subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Name of Sub-subcontractor

Water Management Services; RFB No. 18-0026

Name of Project

Columbus Consolidated Government

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, _____, 201__ in _____ (city), _____ (state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE _____ DAY OF _____, 201__.

NOTARY PUBLIC

My Commission Expires: _____

FORM 3

Form W-9 (Rev. December 2014) Department of the Treasury Internal Revenue Service	Request for Taxpayer Identification Number and Certification	Give Form to the requester. Do not send to the IRS.
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Print or type See Specific Instructions on page 2.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.	
	2 Business name/disregarded entity name, if different from above	
	3 Check appropriate box for federal tax classification; check only one of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member 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) _____ Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i>
	5 Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	6 City, state, and ZIP code	
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 Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number									
or									
Employer identification number									

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 on page 3.

Sign Here	Signature of U.S. person ▶ _____	Date ▶ _____
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.
Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/fw9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code* on page 3 and the separate instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships* above.

What is FATCA reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; do not leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account, list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9.

a. Individual. Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note. ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. Sole proprietor or single-member LLC. Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. Partnership, LLC that is not a single-member LLC, C Corporation, or S Corporation. Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. Other entities. Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. Disregarded entity. For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box in line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box in line 3.

Limited Liability Company (LLC). If the name on line 1 is an LLC treated as a partnership for U.S. federal tax purposes, check the "Limited Liability Company" box and enter "P" in the space provided. If the LLC has filed Form 5832 or 2553 to be taxed as a corporation, check the "Limited Liability Company" box and in the space provided enter "C" for C corporation or "S" for S corporation. If it is a single-member LLC that is a disregarded entity, do not check the "Limited Liability Company" box; instead check the first box in line 3 "Individual/sole proprietor or single-member LLC."

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space in line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note. You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on this page), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at www.ssa.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/businesses and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting irs.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code* earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. **Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.** You must give your correct TIN, but you do not have to sign the certification.

2. **Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.** You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. **Real estate transactions.** You must sign the certification. You may cross out item 2 of the certification.

4. **Other payments.** You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. **Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions.** You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor ²
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee ¹ The actual owner ²
5. Sole proprietorship or disregarded entity owned by an individual	The owner ²
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor ²
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity ¹
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 2.

⁵ Note. Grantor also must provide a Form W-9 to trustee of trust.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN.
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, *Identity Theft Prevention and Victim Assistance*.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-368-4484. You can forward suspicious emails to the Federal Trade Commission at spam@ftc.gov or contact them at www.ftc.gov/idtheft or 1-877-IDTHEFT (1-877-438-4338).

Visit IRS.gov to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

**FORM 4 STATEMENT OF QUALIFICATIONS & WORK GUARANTEE
WATER MANAGEMENT SERVICES)
(ANNUAL CONTRACT)
RFB NO. 18-0026**

1. Company Name: _____
2. Permanent Main Office Address: _____
3. Date company organized; if a corporation, when/where incorporated? _____
4. How many years have you been engaged in the provision of water management services under your present company/trade name? _____
5. List at least three (3) similar projects your company has performed within the last three (3) years, stating contract value and month/year of completion:

Company Name/Address	Contact Person/E-Mail	Contract Value Month/Year of Completion

6. List personnel that will be assigned to this project, their qualifications, and years of experience:

(Attach additional sheet, if necessary)

7. Have you ever failed to complete a project and/or defaulted on a contract? If so specify when and with whom:

8. Describe your statement of Warranty and Guarantee of Work:

Signature of Authorized Representative

Print Name and Title of Signatory

****COMPLETE AND RETURN THIS PAGE WITH BID****

BID FORM
WATER MANAGEMENT SERVICES
(ANNUAL CONTRACT)
RFB NO. 18-0026

IMPORTANT INFORMATION:

PLEASE SUBMIT ONE ORIGINAL AND ONE IDENTICAL COPY OF EACH BID

By signing this Bid Form, the authorized representative understands the City reserves the right to request any omitted information, **WHICH DOES NOT AFFECT THE SUBMITTED BID PRICE**. Bidders shall be notified, in writing, and shall have two (2) days, after notification to submit the omitted information (to exclude E-Verify). If the omitted information is not received within two (2) days, the Bidder shall be deemed non-responsive and the Bid Submission will be deemed "Incomplete". Use the following check-list to verify the items are included in sealed bid:

☐ Bid Form

☐ Proof of Insurance

☐ E-Verify

☐ Statement of Qualifications & Work Guarantee

☐ General Requirements & Specifications

☐ Contract Signature Page

☐ Addenda

Initial below to acknowledge receipt of the following addenda (if any):

Addendum No. 1

Addendum No. 2

Addendum No. 3

DESCRIPTION	MONTHLY COST	ANNUAL COST
COOLING TOWERS - Service Twice Per Month		
Government Center	\$	\$
City Services Center (CSC)	\$	\$
Civic Center	\$	\$
Muscogee County Jail	\$	\$
Public Safety Complex	\$	\$
Trade Center	\$	\$
CHILLERS - Service Once Per Month		
Government Center	\$	\$
City Services Center (CSC)	\$	\$
Civic Center	\$	\$
Public Safety Building	\$	\$
Muscogee County Jail	\$	\$
Trade Center (2 Chillers)	\$	\$
BOILERS - Service Once Per Month		
Government Center	\$	\$
Muscogee County Jail	\$	\$
Dog Pound – Milgen Rd	\$	\$
Fire Station 1	\$	\$
Fire Station 6	\$	\$
Muscogee County Prison (2 Boilers)	\$	\$
Trade Center (8 Boilers)	\$	\$
TOTAL ANNUAL COST:	\$	

VENDOR NAME & SIGNATURE:

If certified as a DBE or WBE, list the certifying agency:

COMPLETE THIS PAGE AND RETURN WITH BID

FORM 6

CONTRACT SIGNATURE PAGE WATER MANAGEMENT SERVICES (Annual Contract) RFB No. 18-0026

The undersigned hereby declares that he has/they have carefully examined the specifications herein referred to and will provide all equipment, terms and services of the Consolidated Government of Columbus, Georgia:

ATTEST:

Witness as to the Contractor

Witness as to the Contractor

Signature of Authorized Representative Date

Print Name and Title of Signatory

Company: _____

Address: _____

Telephone: _____

Fax: _____

Email: _____

* * * * *

CONSOLIDATED GOVERNMENT OF COLUMBUS, GEORGIA

Accepted this ____ day of _____ 20__

APPROVED AS TO LEGAL FORM:

Isaiah Hugley, City Manager

Clifton C. Fay, City Attorney

ATTEST:

Tiny B. Washington, Clerk of Council

☒ CHECKLIST ☒
Water Management Services
RFB No. 18-0026

CHECK OFF EACH ITEM AS THE NECESSARY ACTION IS COMPLETED:

- ☐ 1. THE **CONTRACT SIGNATURE PAGE** HAS BEEN SIGNED.
- ☐ 2. PRICING HAS BEEN CHECKED.
- ☐ 3. ADDENDA (IF ANY) HAVE BEEN SIGNED.
- ☐ 4. ALL SUBMISSION REQUIREMENTS ARE INCLUDED.
- ☐ 6. THE MAILING ENVELOPE HAS BEEN ADDRESSED TO:

**Columbus Consolidated Government
Purchasing Division – Attn: Heather Scheuttig
5th Floor, Tower Bldg.
100 10th Street
Columbus, Georgia 31901**

- ☐ 7. THE MAILING ENVELOPE HAS BEEN SEALED AND MARKED WITH THE:

BID TITLE: **Water Management Services (Annual Contract)**
BID NUMBER: **RFB 18-0026**
OPENING DATE: **January 17, 2018**
BUYER: **Heather Scheuttig**

♻️ PLEASE CONSIDER THE ENVIRONMENT ♻️

Please ONLY submit what is required; keep the remaining pages of these specifications for your records/recycle

*** Opening date subject to change by Addendum**

This checklist is for informative purposes only, and is not intended to be a part of the formal bid document.

COLUMBUS CONSOLIDATED GOVERNMENT

Georgia's First Consolidated Government



FINANCE DEPARTMENT PURCHASING DIVISION

100 TENTH STREET, P. O. BOX 1340
COLUMBUS, GEORGIA 31902-1340
706-653-4105, Fax 706-225-3033
BidLine 706-653-4536
www.columbusga.org

January 4, 2018

Addendum No. 1

Water Management Services (Annual Contract)
RFB No. 18-0026

Proposals should include acknowledgement of receipt for all Addenda:

Authorized Initials: _____ **Firm:** _____

Vendors are informed that the above subject RFP is hereby modified, corrected, or supplemented as specified, described and set forth in this Addendum:

QUESTIONS / RESPONSES

Question: Who is the current vendor? And what is the current price you are paying for the water treatment program.

Response: The current vendor is Superior Water Services, and the price is \$974.00 per month (\$11,688.00 annually).

**Andrea J. McCorvey
Purchasing Manager**

COLUMBUS CONSOLIDATED GOVERNMENT

Georgia's First Consolidated Government



FINANCE DEPARTMENT PURCHASING DIVISION

100 TENTH STREET, P. O. BOX 1340
COLUMBUS, GEORGIA 31902-1340
706-653-4105, Fax 706-225-3033
BidLine 706-653-4536
www.columbusga.org

January 9, 2018

ADDENDUM NO. 2 **Water Management Services (Annual Contract)** **RFB No. 18-0026**

Proposals should include acknowledgement of receipt for all Addenda:

Authorized Initials: _____ **Firm:** _____

Vendors are informed that the above subject RFB is hereby modified, corrected, or supplemented as specified, described and set forth in this Addendum:

I. DUE DATE EXTENSION

The due date is extended; sealed bids are due no later than 2:30 PM on Wednesday, January 24, 2018.

II. FORTHCOMING ADDENDUM

Within the next few business days, Columbus Consolidated Government anticipates releasing another addendum to provide responses to questions that have been received.

III. ACKNOWLEDGEMENT

Indicate that your company has received this Addendum in the appropriate areas and include with sealed Bid. **Failure to acknowledge receipt of this addendum may render your Bid "Incomplete".**

Andrea J. McCorvey
Purchasing Manager

COLUMBUS CONSOLIDATED GOVERNMENT

Georgia's First Consolidated Government



FINANCE DEPARTMENT PURCHASING DIVISION

100 TENTH STREET, P. O. Box 1340
COLUMBUS, GEORGIA 31902-1340
706-653-4105, Fax 706-225-3033
BidLine 706-653-4536
www.columbusga.org

January 22, 2018

Addendum No. 3

Water Management Services (Annual Contract)
RFB No. 18-0026

Proposals should include acknowledgement of receipt for all Addenda:

Authorized Initials: _____ **Firm:** _____

Vendors are informed that the above subject RFP is hereby modified, corrected, or supplemented as specified, described and set forth in this Addendum:

I. DUE DATE EXTENSION

The due date is extended; sealed bids are due no later than 2:30 PM on Wednesday, January 31, 2018.

II. QUESTIONS/RESPONSES

Question 1: Will the City purchase the containment containers, or will the vendor provide?

Response: The vendor shall provide all necessary equipment and labor to install. Vendor should also be prepared to install missing items.

Question 2: Will the City purchase corrosion coupon racks and accessories, or does the vendor provide?

Response: Please refer to Question 1 response.

Question 3: Will the City provide for installation of coupon racks?

Response: Please refer to Question 1 response

Question 4: Presently, by-pass feeders do not exist at the Muscogee County Jail. Will the City purchase these or should they be provided by the vendor?

Response: Please refer to Question 1 response.

Question 5: Will the City provide installation of by-pass feeders Muscogee County Jail?

Response: Please refer to Question 1 response.

Question 6: A polyquat is specified as an alternative biocide, would Kathon WT be an acceptable substitute? Kathon WT is an Isothazolene.

Response: Kathon WT is acceptable.

Question 7: There are a number of locations that do not have the capability to feed. Does the City of Columbus want a quotation for additional equipment to accomplish a dual biocide feed at those locations that cannot do so, or is shock dosing with an alternate biocide during service visits acceptable?

Response: **SPECIFICATION CHANGE**

The specifications have been amended as follows:

Detailed Specifications

Scope of Work

C. If additional equipment or services are needed, quotes will be obtained from the successful contractor.

Question 8: The specifications say you want 12 months' service on all closed loops, hot water, and chilled water. However, you state 11 of the hot water closed loops only operate five (5) months out of the year. Do you wish to have these 11 loops serviced on all 12 months?

Response: This change has been reflected on the Bid Form. See "Revised Bid Form", Section III., pages 4 - 5 of this addendum.

Question 9: Is Superior Water currently servicing each cooling tower two (2) times per month?

Response: That is the current requirement.

Question 10: Addendum 1 answered a question about who was the current water treater and what dollars the contract was for. It states the contract was awarded was at \$974 per month. This does not reflect the two new buildings that were added to the contract. Both of the new buildings (Trade Center and City Services Center) are a part of the account but one is line itemed out in the master invoice and the second is invoiced separately, by request of the City. The true invoice amount for this contract is \$1,408.23 per month. I am concerned that all bidders on this new RF[B] will think they are competing against the original price for service. We wanted to bring this to your attention.

Response: Correction to Item 1 of Addendum No. 1. \$974.00 per month was the original Bid amount. At the first renewal, the contract amount increased to \$998.94. During the contract term, additional locations were added:

- Trade Center: \$250.00 per month.
- Citizen's Service Center: \$159.88 per month.

Bear in mind some items are serviced twice per month; some are serviced once per month; and some items are serviced only five months out of the year.

Andrea J. McCorvey
Purchasing Manager

**REVISED
BID FORM
WATER MANAGEMENT SERVICES
(ANNUAL CONTRACT)
RFB NO. 18-0026**

IMPORTANT INFORMATION:

PLEASE SUBMIT ONE ORIGINAL AND ONE IDENTICAL COPY OF EACH BID

By signing this Bid Form, the authorized representative understands the City reserves the right to request any omitted information, WHICH DOES NOT AFFECT THE SUBMITTED BID PRICE. Bidders shall be notified, in writing, and shall have two (2) days, after notification to submit the omitted information (to exclude E-Verify). If the omitted information is not received within two (2) days, the Bidder shall be deemed non-responsive and the Bid Submission will be deemed "Incomplete". Use the following check-list to verify the items are included in sealed bid:

- ☐ Bid Form ☐ Proof of Insurance ☐ E-Verify ☐ Statement of Qualifications & Work Guarantee
- ☐ General Requirements & Specifications ☐ Contract Signature Page ☐ Addenda

Initial below to acknowledge receipt of the following addenda (if any):

Addendum No. 1 _____ Addendum No. 2 _____ Addendum No. 3 _____

DESCRIPTION	MONTHLY COST	ANNUAL COST
I. COOLING TOWERS - Service Twice Per Month		
Government Center	\$	\$
City Services Center (CSC)	\$	\$
Civic Center	\$	\$
Muscogee County Jail	\$	\$
Public Safety Complex	\$	\$
Trade Center	\$	\$
II. CHILLERS - Service Once Per Month		
Government Center	\$	\$
City Services Center (CSC)	\$	\$
Civic Center	\$	\$
Public Safety Building	\$	\$
Muscogee County Jail	\$	\$
Trade Center (2 Chillers)	\$	\$
III. BOILERS - Service Once Per Month		
	MONTHLY COST	ANNUAL COST
Trade Center (8 Boilers)	\$	\$
	MONTHLY COST	5 MONTH EXT. COST
Government Center	\$	\$
Muscogee County Jail	\$	\$

Dog Pound – Milgen Rd	\$	\$
Fire Station 1	\$	\$
Fire Station 6	\$	\$
Muscogee County Prison (<i>2 Boilers</i>)	\$	\$
TOTAL COST:		

VENDOR NAME & SIGNATURE:

If certified as a DBE or WBE, list the certifying agency: _____

*****COMPLETE THIS PAGE AND RETURN WITH BID*****

EXHIBIT C

*Water Management Services
(Annual Contract)*

*Steam-Co., LLC
Submission*

**REVISED
FORM 5**

**REVISED
BID FORM
WATER MANAGEMENT SERVICES
(ANNUAL CONTRACT)
RFB NO. 18-0026**

IMPORTANT INFORMATION:

PLEASE SUBMIT ONE ORIGINAL AND ONE IDENTICAL COPY OF EACH BID

By signing this Bid Form, the authorized representative understands the City reserves the right to request any omitted information, WHICH DOES NOT AFFECT THE SUBMITTED BID PRICE. Bidders shall be notified, in writing, and shall have two (2) days, after notification to submit the omitted information (to exclude E-Verify). If the omitted information is not received within two (2) days, the Bidder shall be deemed non-responsive and the Bid Submission will be deemed "Incomplete". Use the following check-list to verify the items are included in sealed bid:

- ☒ Bid Form ☒ Proof of Insurance ☒ E-Verify ☒ Statement of Qualifications & Work Guarantee
☒ General Requirements & Specifications ☒ Contract Signature Page ☒ Addenda

Initial below to acknowledge receipt of the following addenda (if any):

Addendum No. 1 BD Addendum No. 2 BD Addendum No. 3 BD

DESCRIPTION	MONTHLY COST	ANNUAL COST
I. COOLING TOWERS - Service Twice Per Month		
Government Center	\$ 125	\$ 1500
City Services Center (CSC)	\$ 125	\$ 1500
Civic Center	\$ 200	\$ 2400
Muscogee County Jail	\$ 125	\$ 1500
Public Safety Complex	\$ 125	\$ 1500
Trade Center	\$ 200	\$ 2400
II. CHILLERS - Service Once Per Month		
Government Center	\$ 25	\$ 300
City Services Center (CSC)	\$ 25	\$ 300
Civic Center	\$ 25	\$ 300
Public Safety Building	\$ 25	\$ 300
Muscogee County Jail	\$ 25	\$ 300
Trade Center (2 Chillers)	\$ 50	\$ 600
III. BOILERS - Service Once Per Month		
	MONTHLY COST	ANNUAL COST
Trade Center (8 Boilers)	\$ 100	\$ 1200
	MONTHLY COST	5 MONTH EXT. COST
Government Center	\$ 25	\$ 125
Muscogee County Jail	\$ 25	\$ 125

Dog Pound – Milgen Rd	\$ 25	\$ 125
Fire Station 1	\$ 25	\$ 125
Fire Station 6	\$ 25	\$ 125
Muscogee County Prison (2 Boilers)	\$ 25	\$ 125
TOTAL COST:		\$ 14,850.00

VENDOR NAME & SIGNATURE:

Steam-CO, LLC 

If certified as a DBE or WBE, list the certifying agency: _____

*****COMPLETE THIS PAGE AND RETURN WITH BID*****

SOLICITATION ID: RFB NO. 18-0026

WATER MANAGEMENT SERVICES (ANNUAL CONTRACT)

INSURANCE CHECKLIST

**CERTIFICATE OF INSURANCE MUST SHOW ALL
COVERAGE AND ENDORSEMENTS INDICATED BY "X"**

CSL = Combined Single Limit; BI = Bodily Injury; PD=Property Damage

Required Coverage(s)		Limits (Figures denote minimums)	Bidders Limits/Response
X	1. Worker's Compensation and Employer's Liability	STATUTORY REQUIREMENTS	
	Comprehensive General Liability:		
X	2. General Liability Premises/Operations	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
X	3. Independent Contractors and Sub - Contractors	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
X	4. Products Liability	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
X	5. Completed Operations	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
X	6. Contractual Liability (Must be shown on Certificate)	\$ 1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
	Automobile Liability:		
X	7. Owned/Hired/Non-Owned Vehicles/ Employer non-ownership	\$1 Million BI/PD each Accident, Uninsured Motorist	
	Other:		
	8. Miscellaneous Errors and Omissions	\$1 Million per occurrence/claim	
X	9. Umbrella/Excess Liability	\$1 Million Bodily Injury, Property Damage and Personal Injury	
	10. Personal and Advertising Injury Liability	\$1 Million each offense, \$1 Million annual aggregate	
	11. Professional Liability	\$1 Million per occurrence/claim	

Required Coverage(s)		Limits (Figures denote minimums)	Bidders Limits/Response
	12. Architects and Engineers	\$1 Million per occurrence/claim	
	13. Asbestos Removal Liability	\$2 Million per occurrence/claim	
	14. Medical Malpractice	\$1 Million per occurrence/claim	
	15. Medical Professional Liability	\$1 Million per occurrence/claim	
	16. Dishonesty Bond		
	17. Builder's Risk	Provide Coverage in the full amount of contract	
	18. XCU (Explosive, Collapse, Underground) Coverage		
	19. USL&H (Long Shore Harbor Worker's Compensation Act)		
	20. Contractor Pollution Liability	\$2 Million per occurrence/claim	
	21. Environmental Impairment Liability	\$2 Million per occurrence/claim	
X	22. Carrier Rating shall be Best's Rating of A-VII or its equivalents		
X	23. Notice of Cancellation, non-renewal or material change in coverage shall be provided to City at least 30 days prior to action.		
X	24. The City shall be named Additional Insured on all policies		
X	25. Certificate of Insurance shall show Bid Number and Bid Title		
	26. Pollution:	\$2 Million per occurrence/claim	

*If offeror's employees will be using their privately-owned vehicles while working on this contract and are privately insured, please state that fact in the **Bidders Limits/Response** column of the insurance checklist.

BIDDER'S STATEMENT:

If awarded the contract, I will comply with contract insurance requirements and provide the required Certificate(s).

BIDDER NAME: STEAM-CO., LLC

AUTH. SIGNATURE: Burtley D. Dinkley

*****COMPLETE THIS PAGE AND RETURN WITH BID*****

FORM 4
STATEMENT OF QUALIFICATIONS & WORK GUARANTEE
WATER MANAGEMENT SERVICES)
(ANNUAL CONTRACT)
RFB NO. 18-0026

1. Company Name: Steam-CO., LLC
2. Permanent Main Office Address: 517 Springhead Church Rd. Willacoochee, Ga.
81650
3. Date company organized; if a corporation, when/where incorporated? 2002 LLC
4. How many years have you been engaged in the provision of water management services under your present company/trade name? 16 years
5. List at least three (3) similar projects your company has performed within the last three (3) years, stating contract value and month/year of completion:

Company Name/Address	Contact Person/E-Mail	Contract Value Month/Year of Completion
Please see reference page on the next page.		

6. List personnel that will be assigned to this project, their qualifications, and years of experience:
Please see water treatment service personnel after next
page.

(Attach additional sheet, if necessary)

7. Have you ever failed to complete a project and/or defaulted on a contract? If so specify when and with whom: No

8. Describe your statement of Warranty and Guarantee of Work:
See document attached (5 pages behind this page)

Bradley Dublerly
 Signature of Authorized Representative

Bradley Dublerly / Sales & Service
 Print Name and Title of Signatory
Representative

****COMPLETE AND RETURN THIS PAGE WITH BID****



**PO BOX 219
WILLACOOCHEE, GA 31650
888-225-9559**

REQUIREMENT FOR SERVICES

REFERENCES

We are pleased to provide the following references that are **currently using STEAM-CO Water Treatment Services for Boilers, Cooling Towers and Closed Loops.**

Mr. Alan Whaley
Augusta University
2500 Walton Way
Augusta, GA 30904
(706) 877-1110
(706) 667-4049
awhaley@gru.edu

Mr. Kelly Calhoun
Burruss Correctional Training Center
1000 Indian Springs Drive
Forsyth, GA 31029
(478) 994-7511
Kelly.Calhoun@gdc.ga.gov

Mr. Michael McLean
ABAC
2802 Moore Highway
Tifton, GA 31793
(229) 520-9774
smclean@abac.edu

Mr. Barry Newton
Middle Georgia State College
1100 SE 2nd St.
Cochran, GA 31014
(478) 595-9349
bnewton@mga.edu

Mr. Ricky Davis
Georgia Southern University
1332 Southern Dr.
Statesboro, GA 30458
(912) 682-5761
rdavis@georgiasouthern.edu

Mr. John Webb/ Keith Sloan
Georgia College and State University
231 W Hancock Street
Milledgeville, GA 31061
(478) 445-5004
john.webb@gcsu.edu
Arnold.sloan@gcsu.edu



PO BOX 219
WILLACOOCHEE, GA 31650
P: 1.888.225.9559
F: 1.912.534.6010

WATER TREATMENT SERVICE PERSONNEL

Primary

W. Ty Thomas

Account Service Representative

Office: 888-225-9559

Cell: 912-310-8659

E-mail: ty@steam-co.com

Company Duties:

Sales Area Representative

Territory – Middle and North Georgia, Alabama, South Carolina

Maintains and oversees company accounts

Education:

Bachelor of Business Administration Kennesaw State University

Experience:

Currently in charge of 40 active water treatment accounts

8 years in water treatment industry

Currently pursuing CWT certification

Secondary

Dave Ellison

Account Service Representative

Office: 888-225-9559

Cell: 912-895-0076

Email: Dave@steam-co.com

Company Duties:

Sales and Service Representative

Territory – Middle and South Georgia, Alabama Service and maintain company accounts

Experience:

Over 15 years' experience in commercial and healthcare facility maintenance. Served as plant lead engineer; core competencies in boiler, chiller and cooling tower maintenance. Extensive knowledge in building controls including Siemens and Johnson as well as overall plant efficiency.

Bradley Dubberly

Account Office Representative

Office: 888-225-9559

Cell: 912-895-0019

Home: 912-632-5018

E-mail: brad@steam-co.com

Company Duties:

Southwest Georgia/East Alabama Sales and Service Rep

Legionella WMPs

eMaintenance workflow service request

IT and Com Systems

Government Contracting

Education:

Bachelor of Business Management Georgia Southern University 2007

Experience:

10 years of Field Service experience in Service Program Development/Implementation and specializing in Electronic Controls. Maintenance supervisor and program lead for 7 years.

W. Hugh Smith

Vice President

Office: 888-225-9559

Cell: 912-309-0004

Home: 229-468-3021

E-mail: hugh@steam-co.com

Company Duties:

South Georgia and North Florida Sales and Service Rep

Charting all account's data with Excel

Attends all local Association of Water Technologies training seminar

Currently pursuing CWT certification

Education:

B.S. Environmental Health Science, University of Georgia 1994.

Experience:

Currently in charge of over 60 active water treatment accounts

14 years in water treatment industry.

W. Steve Thomas

President

Office: 888-225-9559

Cell: 912-310-0044

Home: 912-632-5018

E-mail: steve@steam-co.com

Company Duties:

Field Service and Sales Manager

Territories - South Carolina, Alabama, Florida and Georgia service rep

Maintains and oversees all company accounts

Education:

Bachelor of Science University of Georgia 1975

Masters of Science University of Georgia 1980

Experience:

Currently in charge of over 70 active water treatment accounts

29 years in water treatment industry.



PO BOX 219
WILLACOOCHEE, GEORGIA 31650
1.888.225.9559
Fax: 912.534.6010
www.steam-co.com

Warranty & Return Policy

Returns— How many days do you have to return an item? No item may be returned without a Return Merchandise Authorization (RMA) Number from our customer service department. Non-defective items can only be returned if they were purchased directly from STEAM-CO., LLC and must be returned in unused condition and in the unopened, original packaging - due to the nature of our products, we cannot authorize the return of a product that has been opened and/or removed from its original packaging. Retail, commercial and government customers must request an RMA within 10 days of receiving order for a full refund of the purchase price.

Warranty — STEAM-CO., LLC'S products are warranted against defects in packaging, material and workmanship for 90 days from the original purchase. No product may be returned without a Return Merchandise Authorization Number from our customer service department. Damage caused by neglect, abuse, misuse, alteration of the product, or improper storage is not covered by this limited warranty.

Restocking Fee- All returns are subject to a 15% restocking fee.

All Warranty and Return matters should be sent to:

STEAM-CO., LLC
HUGH SMITH
517 SPRINGHEAD CHURCH ROAD
WILLACOOCHEE, GA 31650



General Requirements

PO BOX 219
WILLACOOCHEE, GA 31650
P: 1.888.225.9559
F: 1.912.534.6010

January 22, 2018

COLUMBUS CONSOLIDATED GOVERNMENT
100 TENTH STREET, PO 1340
COLUMBUS, GA 31902

ATTN: PURCHASING DEPARTMENT

RE: WATER MANAGEMENT SERVICES RFQ 18-0026

We are pleased to present the following recommendations and quotations for the implementation of a water treatment program for your steam and cooling system.

COMPANY HISTORY

STEAM-CO is a water treatment service company based in South Georgia. It currently services accounts in Georgia, Florida, Alabama, Tennessee and South Carolina. Industries served are Colleges, Public School Systems, Wood Industries, Feed mills, Poultry Processing, Hatcheries, Correctional Facilities, Hospitals, Dairy Facilities, Industrial Laundries, Packaging Facilities, etc.

The owners of STEAM-CO a combined total of over 45 years in the water treatment industry. STEAM-CO was incorporated in the State of Georgia in February 2002.

STEAM-CO currently has its own chemical blending plant for blending all water treatment products. In addition, we have a Parts warehouse for boiler gaskets, valves, sight glasses, etc. We also stock all major brands of softener controllers, tanks, resin, etc. Our in house lab has the capabilities for most water treatment analyses for all heating and cooling water.

STEAM-CO currently has 6 service vehicles and three delivery vehicles.

Since the inception, STEAM-CO has expanded to hire qualified water treatment service technicians, sales personnel, and managers.

STEAM-CO is an active member of AWT.

PERSONNEL TRAINING

If you have any questions or need additional information, do not hesitate to call.

1. **WATER SOFTENER:** This training includes the use of a clear water softener, which allows observation of the internal operation. Employees will gain an understanding of regeneration cycles (backwash, brine draw, slow rinse, and fast rinse). Also, included in this session is proper test procedures and interpretation of softener water controls.
2. **COOLING TOWER BLOWDOWN:** This training includes the importance of blowdown. Employees will gain an understanding of the importance of water conductivity, proper test procedures for conductivity, and the necessary steps required to keep conductivity within proper operating limits.
3. **COOLING TOWER WATER CHEMISTRY:** This training emphasizes the importance of water chemistry in boilers and cooling towers. Employees will gain an understanding in proper sample collection and analyses of water. Interpretation of analytical results will be discussed.
4. **COOLING TOWER LOG BOOK:** This training incorporates the proper documenting of the above three sessions into log books. It emphasizes the importance of plant personnel being involved daily with the water treatment program.

WATER TREATMENT PREVENTATIVE MAINTENANCE PROGRAM

We believe the following steps are necessary to ensure a quality product and service is provided to each of our customers. We have developed the following steps for our onsite Water Treatment Service Program.

1. Complete a Level One PM inspection on all HVAC and Boiler equipment treated.
This inspection includes checks for the following:
 - A. Chemical pump – Verify operation
 - B. Chemical hose and fittings – Verify no leaks present
 - C. Conductivity/pH/ORP controllers – Verify operation and calibration, check for restrictions.
 - D. Flow meters – Check for restrictions
 - E. Fan motor noise
 - F. Vandalism reports
 - G. Electrical power (disconnect) powered off
 - H. Chemical inventory
 - I. Any leaks on any piping not associated with water treatment
 - J. Any overflow of cooling tower
 - K. Microbiological Dip Slide on each tower
 - L. Visual Inspection of Tower Sump

WATER TREATMENT QUALITY ASSURANCE PROGRAM

We believe the following steps are necessary to ensure a quality product and service is provided to each of our customers. We have developed the following steps for our Quality Control Process.

1. SERVICE BEGINS WITH OUR EMPLOYEES – All STEAM-CO employees are trained in their individual field. Initial training is performed at the time of hire. Quarterly training is mandatory for all employees. Field Service Representatives attend training classes at the Association of Water Technologies as well as numerous other outlets. All employees are held to lofty standards of competency, customer service, and ability.
2. MATERIAL INSPECTION
 - A. All material for water treatment blending as well as equipment (controllers, pumps, etc.) are meticulously and evaluated prior to every shipment utilizing a propriety set of premium standards.
3. WATER TREATMENT BLENDING
 - A. Premium Water Treatment Products being with Premium Raw Materials. Our water treatment products are blended to meet individual facility requirements. The formulations are based upon the raw water quality and the desired results of the customer.
 - B. The products are tested prior to leaving the facility for quality. The test results are recorded and a sample of the product is retained in the mix plant for a minimum of three months.
 - C. All final blends are meticulously and evaluated prior to every shipment utilizing a propriety set of premium standards.
 - D. A final check is performed to ensure proper product, proper container size, proper delivery address, proper label, and proper SDS sheet are correct prior to delivery.
4. EQUIPMENT INSTALLATION AND REPAIRS
 - A. All equipment is meticulously inspected prior to installation.
 - B. A Job List is completed to ensure all parts required are at the job site.
 - C. All Installations are directed by the Project Manager. The on-Site Supervisor ensures each job is completed to the customer's satisfaction.
5. FIELD INSPECTIONS
 - A. Service technicians perform Monthly Service to each water treatment account.

- B. Water samples are taken and analyzed to ensure proper treatment levels are being maintained in the equipment.
- C. A written report is emailed to each designated person at the facility.
- D. Service Technicians also perform mechanical checks and preventative maintenance checks. Any problems noted are included in the written report.
- E. All findings are also verbally communicated to designated personnel.

COOLING TOWER & CLOSED LOOP TREATMENT **RECOMMENDATIONS**

We propose to furnish a cooling tower treatment program with the use of custom-blended and top of the line treatment materials:

1. STEAM-CO TOWER TREATMENT 1052 is a blended cooling tower treatment that is designed to protect cooling towers and condensers from corrosion and scale build up.
2. SODIUM HYPOCHLORITE is a 12.5% oxidizing agent chemical that is used in controlling microbiological growth in cooling systems.
3. KATHON CF 100 / BELECIDE 355 are high performance non-oxidizing, broad spectrum, antimicrobial agents based on proven isothiazolone chemistry. They are effective at very low concentrations in controlling both the planktonic and surface growth of bacteria, fungi, and algae.
4. STEAM-CO LOOP TREATMENT 2240 is a blended nitrite based material designed for heating and cooling loops. It contains ingredients that protect iron and copper lines from corrosion.

***PRODUCT DATA SHEETS FOR THE ABOVE CHEMICALS WILL BE ATTACHED SEPARATELY.**

FIELD SUPERVISORY SERVICE

To be successful, any water treatment program requires frequent field service visits. We will establish a control program and visit your facility per the bid requirements. We will obtain samples, analyze them and submit a written report of our findings complete with recommendations.

BENEFITS OF STEAM-CO, LLC CUSTOM PROGRAM

1. Steam-Co will provide all treatment chemicals necessary to make our program work. Our program takes the burden off CCG employees for moving the 150lb to 550lb treatment drums.
2. In-house training for front line employees.
3. Provide mechanical expertise for cooling systems and recommend solutions to issues that may arise.
4. Steam-Co employees will handle all treatment materials and no involvement by CCG employees will be required. We may need assistance to gain entry to all locations requiring delivery of treatment materials.

We appreciate the opportunity to serve and look forward to working with you and your facility.

Respectfully submitted,

Brad Dubberly



Service Report

Monday, February 17, 2014 14:44 EST

Sample Report
Main Plant
123 Sample Street
Atlanta GA 12345
(555) 555-555

Report Number: 10479-2

Recorded By: Ty Thomas
(912) 310-8659
ty@steam-co.com

Water Treatment - Boiler and Cooling Report

Test	Raw Water	Softener - 1	Softener - 2	Feedwater	Boiler 1	Boiler 2	Boiler 3	Condensate
Hardness, total (ppm as CaCO ₃)	190	0	10	0				0
Limits	200 max	0 max	10 max	0 max				
pH	7.6	8	8.01	8	10.18	11.6	11.23	8.4
Limits	6.5 - 8.5	7.5 - 8.5	6 - 8.5	7.5 - 8.5	9.5 - 11.5	9.5 - 11.5	9.5 - 11.5	7.5 - 8.5
Conductivity (as mmhos)	245	250	250	250				32
Limits	300 max	300 max	300 max	300 max				100 max
Alkalinity, P (ppm as CaCO ₃)					100	300	900	
Limits					299 - 800	299 - 800	299 - 800	
Phosphate (ppm as PO ₄)					10	30	25	
Limits					29 - 81	29 - 81	29 - 81	
Sulfite (ppm as SO ₃)					10	35	25	
Limits					29 - 81	29 - 81	29 - 81	
Conductivity, neutralized (as mmhos)					1000	2331	1988	
Limits					1999 - 3001	1999 - 3001	1999 - 3001	
Chlorine, free (ppm as Cl ₂)	0.4							
Limits	0.5 max							
Iron	0.01							0.1
Limits	0.05 max							0.1 max
Copper								0.1
Limits								0.1 max
Alkalinity, total (ppm as CaCO ₃)					150	450	350	
Limits					299 - 900	299 - 900	399 - 900	
Chlorides	60	30	30	30	60	75	50	
Limits	50 max	30 max	30 max	30 max	60 max	75 max	50 max	
Silica (ppm as SiO ₂)	20							
Limits	15 max							

Test	Tower	H & L Tower					
Hardness, total (ppm as CaCO ₃)	400	320					
Limits	300 max	300 max					
pH	8.1	8.4					
Limits	7.5 - 8.5	7.5 - 8.5					
Conductivity (as mmhos)	1000	340					
Limits	400 - 1000	400 - 500					
Corrosion Inhibitor	1200	750					
Limits	800 - 1000	800 - 1000					
Iron	0.9	1					
Limits	0.5 max	0.5 max					
Copper	0.1	0.1					
Limits	0.05 max	0.05 max					
Alkalinity, total (ppm as CaCO ₃)	600	300					
Limits	20 - 300	20 - 300					

Monday, February 17, 2014 14:44 EST

Sample Report
Main Plant
123 Sample Street
Atlanta GA 12345
(555) 555-555

Report Number: 10479-2
Recorded By: Ty Thomas
(912) 310-8659
ty@steam-co.com

Water Treatment - Boiler and Cooling Report

Softener - 1

Online ●

● **Hardness, total (ppm as CaCO_3)**

The softener is delivering soft water.

Softener - 2

Online ●

● **Hardness, total (ppm as CaCO_3)**

Softener 2 is delivering hard water. This could be due to no salt being in the brine tank. I added salt and regenerated the unit to ensure soft water would be delivered. Please monitor to ensure salt stays in the brine tank.

Boiler 1

Online ●

○ **Conductivity, neutralized (as mmhos)**

Conductivity was low due to boiler not operating at the moment. Please continue to monitor to ensure treatment balances stay within our control limits.

Boiler 2

Online ●

● **Conductivity, neutralized (as mmhos)**

Boiler had good conductivity and good treatment balances.

Boiler 3

Online ●

○ **Conductivity, neutralized (as mmhos)**

Boiler had slightly low conductivity and treatment balances. I increased pump setting to help get treatment balances within our recommended parameters.

Condensate

Online ●

● **Hardness, total (ppm as CaCO_3)**

Condensate checked good.

Tower

Online ●

● **Conductivity (as mmhos)**

Tower had extremely high conductivity for incoming water conditions. I found the bleed solenoid was clogged. I corrected and tower is bleeding down.

Please continue to monitor to ensure this does not occur again.

H & L Tower

Online ●

○ **Conductivity (as mmhos)**

Conductivity was slightly low due to tower not operating much as of late. This could be due to the cooler weather.



Service Report

Monday, February 17, 2014 14:44 EST

Sample Report
Main Plant
123 Sample Street
Atlanta GA 12345
(555) 555-555

Report Number: 10479-2
Recorded By: Ty Thomas
(912) 310-8659
ty@steam-co.com

Water Treatment - Boiler and Cooling Report

Closing Comments

Please feel free to call me if you have any questions or concerns.
Ty Thomas
912-310-8659
ty@steam-co.com

Wednesday, April 9, 2014 19:22 EDT

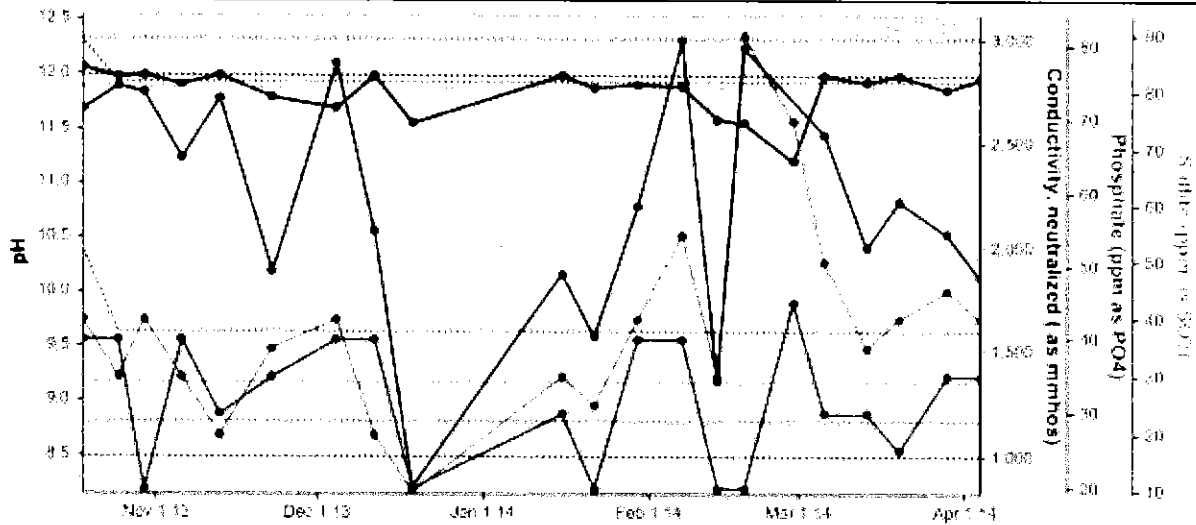
Sample Report
Sample Report
82 Sample Drive
Sample Georgia 12345
(555) 555-5555

Report Number: 10713
Recorded By: Ty Thomas
(912) 310-8659
ty@steam-co.com

Boiler Plant - Water Treatment

Boiler - 8

Online



Type	Component	Test Name	Avg	# Days	# Tests	# High	# Low	% in Range
Boiler - 8	pH		11.9	397	21	1	0	95.24%
Boiler - 8	Conductivity, neutralized (as mmhos)		2,238	397	20	3	3	70.00%
Boiler - 8	Phosphate (ppm as PO4)		32	397	21	0	0	73.43%
Boiler - 8	Sulfate (ppm as SO4)		14	397	21	1	1	76.10%



an Accudyn Industries brand

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Chemical Metering Pumps
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Conductivity & Resistivity Controllers



pH, ORP, Chlorine & DO Sensors
Transmitters & Amplifiers



Stainless Steel Filter Housings
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Drum Pumps for Chemical Transfer



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Pulsation Dampeners
Back Pressure / Pressure Relief Valves
Calibration Cylinders



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Pump Enclosures
Bromine & ByPass Feeders



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IWAKI America Inc.

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- * pH or ORP
- * Disinfection
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Pre Fabricated Systems

Wall Mount
Enclosed Wall Mount
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Corrosion Coupon Racks

Accessories

Dynamic Mixers for Tanks 
Sample Coolers 
Bypass/Bromine Feeders 
Bleed Valves 
In-Line Static Mixers 



Peristaltic Metering Pump
Flow Indicators



Quills
Corporation Stops
Sample Coolers



Air-Operated Double Diaphragm Pumps



Peristaltic Metering Pumps

3010 Business Park Driv
Suite 6
Norcross, GA 3007
Fax: (770) 242-040
Phone: (770) 242-010
Toll Free: (800) 429-990

E-Mail: sales@hawkins-assoc.com
Web Site : www.hawkins-assoc.com



PO BOX 219
WILLACOOCHEE, GA 31650
888-225-9559

January 22, 2018

COLUMBUS CONSOLIDATED GOVERNMENT
100 TENTH STREET, PO 1340
COLUMBUS, GA 31902

ATTN: RFQ 18-0026 Water Management Services

STEAM-CO employs the services of a private company to ensure all their products meet the requirements of OSHA and EPA. This company visits our facility quarterly to perform training and a walk through inspection of our plant.

Respectfully submitted,

STEAM-CO

A handwritten signature in black ink, appearing to be "W. Hugh Smith". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

W. Hugh Smith

STEAM-CO TOWER TREATMENT 1052

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: STEAM-CO TOWER TREATMENT **Product Code** 1052

Chemical Name: Cooling Water Treatment Revised:5/25/17

Recommended Use: Boiler Water Treatment

Restrictions on Use: For industrial use only. Do not use in drinking water.

Emergency Telephone Number: PERS 1-800-633-8253

COMPANY IDENTIFICATION PHONE NUMBER:

STEAM-CO., LLC

517 SPRINGHEAD CHURCH ROAD

WILLACOOCHEE GA 31650

888-225-9559

2. HAZARDS IDENTIFICATION

Emergency Overview

Signal word: DANGER

Symbol:



Hazard Statements:

Serious eye damage / irritation – Category 1

Skin corrosive/ irritation – Category 1C

Specific target organ toxicity, single exposure – Category 1

Physical Properties

Color: Clear tan

Physical State: Liquid

Odor: Characteristic

Potential Health Effects

Principle Route of Exposure: Skin contact, Eye contact, Inhalation

Primary Routes of Entry: Skin absorption, Inhalation, Ingestion

Acute Effects

Eyes:

Corrosive to the eyes

Skin:

Causes severe skin burns

Inhalation:

Causes damage to respiratory system.

Ingestion: Causes damage to digestive system if swallowed
Chronic Toxicity: None established
Target Organ Effects: Lungs, Eyes, Skin
Potential Environmental Effects: (See Section 12 for additional Ecological Information)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS NO.
Potassium Hydroxide	1310-58-3
Phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1
Tolytriazole, sodium salt	64665-57-2
Hydroxyethylidene diphosphonic acid	2809-21-4
Sodium polyacrylate	PROPRIETARY
Water	7732-18-5

4. FIRST AID MEASURES

Precaution: Do not breathe mists. Do not get into eyes or on skin, or clothing. Wash hands, gloves and any contaminated clothing. Wear protective gloves, eye and face protection. Do not eat, drink, or smoke when handling or using this product.

Skin Contact: Flush skin with running water for a minimum of 20 minutes while removing contaminated clothing. Get medical attention immediately.

Eye Contact: Immediately flush eyes with running water for 20 minutes while holding eyelids open. Obtain medical attention immediately

Inhalation: Move victim to fresh air. If not breathing, give artificial respiration.

Ingestion: Rinse mouth. DO NOT induce vomiting. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable, product is non flammable.

Auto ignition Temperature: No information available.

Fire Extinguishing Media: Any media suitable for surrounding fire.

Other Fire Hazards: Product is corrosive to eyes, skin, and respiratory system. Closed containers may rupture due to pressure build up. Thermal decomposition may release oxides of carbon and nitrogen.

Special PPE and Precautions for Fire Fighters: Wear self contained breathing apparatus. Approach fire from an upwind direction. Contain runoff

6. ACCIDENTAL RELEASE MEASURES

Precautions: Use PPE. Prevent further spillage if safe to do so. Keep containers

closed when not in use.

Environmental Avoid release of this product into the environment.

Precautions Do not discharge into surface waters.

Waste Disposal: Dispose of waste material at an approved waste/treatment/disposal facility in accordance with applicable regulations

7. HANDLING AND STORAGE

Precautions: Wear appropriate Personal Protective Equipment. Keep containers closed when not in use. Ensure all containers are labeled.

Storage: Store in original container. Freezing will affect the physical properties of the product, but will not damage the material. Store above 32 degrees F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Potassium Hydroxide	2 mg/m ³	2 mg/m ³	2 mg/m ³ TWA
Phosphonobutane-1,2,4-tricarboxylic acid	None Established	None Established	None Established
Tolytriazole, sodium salt	None Established	None Established	None Established
Hydroxyethylidene diphosphonic acid	None Established	None Established	None Established
Sodium polyacrylate	PROPRIETARY	PROPRIETARY	PROPRIETARY
Water	None Established	None Established	None Established

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Skin Protection: Wear suitable protective clothing and impervious gloves.

Eye Protection: Tight fitting chemical goggles and face shield.

Respiratory Protection: When encountering concentrations higher than the threshold level, wear appropriate certified respirators.

Other: Safety showers and eyewash stations should be installed in storage and handling areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance and Odor: Clear tan with characteristic odor

Boiling Point: >212 F

Specific Gravity: 1.1 – 1.2

Evaporation Rate: Not applicable

Viscosity: N.D.

pH: 11.5-13

Flammability: No

Flash Point: None

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: Will react with acids or oxidizing agents

Materials to Avoid: Strong oxiders, acids, metals.

Hazardous Decomposition Thermal decomposition may release oxides of carbon and nitrogen.

Reactivity: Not normally reactive at normal temperatures.

11. TOXICOLOGICAL INFORMATION

Component Information

Toxicity

Component	Test	Result	Route	Species
Potassium Hydroxide	LD50	273 mg/kg	Oral	Rat
Phosphonobutane-1,2,4-tricarboxylic acid	LD50	>2,000 mg/kg	Oral	Rat
Tolytriazole, sodium salt	LD50	675 mg/kg	Oral	Rat
Hydroxyethylidene diphosphonic acid	LD50	1800 mg/kg	Oral	Rat
Sodium polyacrylate	Not available	Not available	Not available	Not available

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA
Potassium Hydroxide	Not listed	Not listed	Not Applicable	Not Applicable
Phosphonobutane-1,2,4-tricarboxylic acid	Not listed	Not listed	Not Applicable	Not Applicable
Tolytriazole, sodium salt	Not listed	Not listed	Not Applicable	Not Applicable
Hydroxyethylidene	Not listed	Not listed	Not Applicable	Not Applicable

diphosphonic acid				
Sodium polyacrylate	Not listed	Not listed	Not Applicable	Not Applicable

12. ECOLOGICAL INFORMATION

Product Information: Expected to be highly toxic to aquatic organisms and ecosystem.

Persistence and Degradability: Experimental Log P coefficient value = 0.65

Bioaccumulation: No information available

Mobility: No information available

Toxicity Component Information

Component	Species	Period	Result	
Potassium Hydroxide	Mosquito Fish	24 hours	80 mg/L	
Phosphonobutane-1,2,4-tricarboxylic acid	Water Flea	24 hours	>265 mg/L	
Tolytriazole, sodium salt	Water Flea	48 hours	280 mg/L	
Hydroxyethylidene diphosphonic acid	Water Flea	24 hours	747 mg/L	
Sodium polyacrylate	No Data	No Data	No Data	

13. DISPOSAL CONSIDERATIONS

Responsibility for proper waste disposal is with the owner of the waste. Work with the appropriate regulatory bodies to ensure compliance with regulations.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Corrosive Liquid, Basic, N.O.S.

Hazard Class 8

UN – No UN3266

Packing Group PGII

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA: All ingredients listed or exempt from listing.

CERCLA and/or SARA RQ: No ingredients listed in this section.

SARA Section 311/312 Chemicals

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard : No

Reactive Hazard: No

16. OTHER INFORMATION

Issue Date: 9/15/15

List of References: Information on the individual components was taken directly of the manufacturer MSDS sheet.

This bulletin cannot cover all possible situations which the user may experience during use. Each aspect of the user's operation should be examined to determine if, or where, additional precautions may be necessary. The information provided on this MSDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not considered as a warranty or quality specification. The information relates only to the specific material designated. STEAM- CO., LLC assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of this product. Compliance with all applicable federal, state, and local laws remains the responsibility of the user.

STEAM-CO LOOP TREATMENT 2240

Safety Data Sheet

Revision Date 9-14-15

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: STEAM-CO LOOP TREATMENT 2240

Product Code: 2240

Recommended Use: Water Treatment Chemical

EMERGENCY TELEPHONE NUMBER:

PERS 1-800-633-8253

Chemical Nature: Aqueous solution

Information on Manufacturer

STEAM-CO.

PO BOX 219

WILLACOOCHIE GA 31650

888-225-9559

2. HAZARDS IDENTIFICATION

Emergency Overview

Serious eye damage/irritation – Category 1

Skin corrosion/irritation – Category 1C

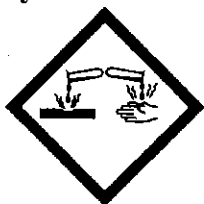
Specific target organ toxicity, single exposure – Category 1

Acute organ toxicity, oral – Category 4

Hazardous to the aquatic environment, acute hazard – Category 1

Signal Word: Corrosive

Symbol:



Color Colorless to pale yellow

Physical State Liquid

Odor Slight pungent

Potential Health Effects

Principle Route of Exposure

Skin contact, Eye contact, Inhalation

Primary Routes of Entry

Skin absorption, Inhalation, Ingestion

Acute Effects

Eyes

Corrosive to the eyes and may cause moderate damage

Skin

May cause skin irritation.

Inhalation

If inhaled, may cause burns.

May cause allergic reaction in asthmatics.

Ingestion

If ingested, may cause burns to mouth and throat.

May cause allergic reaction.

Chronic Toxicity

None established

Target Organ Effects

Lungs, Eyes, Skin

Potential Environmental Effects

See Section 12 for additional Ecological Information

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS NO.
Sodium Nitrite	7632-00-0
Tolytriazole sodium salt	64665-57-2
Potassium Hydroxide	1310-58-3

4. FIRST AID MEASURES

Precaution: Effects of exposure to mixture may be delayed

Skin Contact: Flush skin with running water for a minimum of 20 minutes while removing contaminated clothing. Get medical attention immediately.

Eye Contact: Immediately flush eyes with running water for 20 minutes while holding eyelids open. Obtain medical attention immediately

Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

Ingestion: DO NOT INDUCE VOMITING. Give 1-2 glasses of water to drink. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable, product is non-flammable.

Autoignition Temperature: No information available.

Fire Extinguishing Media: Flood with water.

Use extinguishing measures appropriate for the surrounding Environment.

Other Fire Hazards: Product is corrosive to eyes, skin, and respiratory system. Closed containers may rupture due to build-up of pressure when exposed to extreme heat.

Special Protective Equipment and Precautions for Fire Fighters: Wear self-contained breathing apparatus and full turn out gear. Approach fire from upwind direction.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective equipment. Small spills may be flushed with copious amounts of water. Larger spills should be diked to prevent runoff and then absorbed in sand for disposal. The area then may be flushed with water. Use care. The floor may be slippery.

7. HANDLING AND STORAGE

Precautions: Wear appropriate Personal Protective Equipment. Keep containers closed when not in use. Ensure all containers are labeled.

Storage: Store in original container. Freezing will affect the physical properties of the product, but will not damage the material. Store above 32 degrees F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Skin Protection: Wear suitable protective clothing and impervious gloves.

Eye Protection: Tight fitting chemical goggles and face shield.

Respiratory Protection: Not normally required.

Other: Safety showers and eyewash stations should be installed in storage and handling areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance and Odor: Pale yellow to clear liquid with distinctive pungent odor.

Boiling Point: >212 degrees F

Specific Gravity: 1.04-1.05

VOC Content: 0

Evaporation Rate: Not applicable

Viscosity: N.D.

pH: 12.1 – 12.5

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: Excessive heat

Materials to Avoid: Acids, ammonium compounds, reducing agents. Product decomposes by weak acids with evolution of fumes of N₂O₃.

Hazardous Decomposition Products: Thermal decomposition may release oxides of carbon and nitrogen.

Hazardous Reactions: Will occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Toxicity

Component	Test	Result	Route	Species
Sodium Nitrite	LD50	175 mg/kg	Oral	Rat
Tolytriazole Sodium Salt	LD50	1980 mg/kg	Oral	Rat
Potassium Hydroxide	LD50	273 mg/kg	Oral	Rat

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA
Sodium Nitrite	A4 – Not classifiable as a human carcinogen	Group 3 – Not classifiable as to its carcinogenicity to humans	Not Applicable	Not Applicable
Tolytriazole Sodium Salt	A4 – Not classifiable as a human carcinogen	Group 3 – Not classifiable as to its carcinogenicity to humans	Not Applicable	Not Applicable
Potassium Hydroxide	Not listed	Not Listed	Not Applicable	2mg/m ³

12. ECOLOGICAL INFORMATION

Product Information: No information available
Persistence and Degradability: No information available
Bioaccumulation: No information available
Mobility: No information available

Component Information

Toxicity

Component	Species	Period	Result
Sodium Nitrite	Mosquito Fish	24 hours	17.1 ppm
Tolytriazole Sodium Salt	No Data		
Potassium Hydroxide	Mosquito Fish	24 hours	80 mg/l

13. DISPOSAL CONSIDERATIONS

Responsibility for proper waste disposal is with the owner of the waste. Work with the appropriate regulatory bodies to ensure compliance with regulations.

14. TRANSPORT INFORMATION

DOT: Component Information (Blended product is non-hazardous per DOT regulations)

Proper Shipping Name Sodium Nitrite solution
Hazard Class 5.1
UN – No UN1500
Packing Group III
Description UN1500, Sodium Nitrite solution, 5.1, PGIII

15. REGULATORY INFORMATION

Component Information:

SODIUM NITRITE

Product Hazard Categories

Acute (Immediate) Health Yes
Chronic (Delayed) Health No
Fire No
Reactivity YES
Sudden Release of Pressure No

Lists

Extremely Hazardous Substance NA
(40 CFR 355, SARA Title III Section 302)
CERCLA Hazardous Substance Yes
(40CFR 302.4)
Toxic Chemical Yes
(40 CFR 372.65, SARA Title III Section 313)

Reportable Quantity (RQ) under EPA CERCLA: RQ = 100 lb.

TSCA Inventory Status: Reported/Included

Right-To-Know: Illinois, Massachusetts, New Jersey and Pennsylvania

California prop. 65: No products were found.

TOLYTRIAZOLE SODIUM SALT

Product Hazard Categories

Acute (Immediate) Health Yes
Chronic (Delayed) Health No
Fire No
Reactivity YES
Sudden Release of Pressure No

Lists

Extremely Hazardous Substance NA
(40 CFR 355, SARA Title III Section 302)
CERCLA Hazardous Substance No
(40CFR 302.4)
Toxic Chemical No
(40 CFR 372.65, SARA Title III Section 313)

Reportable Quantity (RQ) under EPA CERCLA: RQ =NA.

TSCA Inventory Status: Reported/Included
Right-To-Know:
California prop. 65: No products were found.

POTASSIM HYDROXIDE

Product Hazard Categories

Acute (Immediate) Health	Yes
Chronic (Delayed) Health	Not established
Fire	No
Reactivity	No at normal temps
Sudden Release of Pressure	Thermal decomposition may Release oxides of carbon and nitrogen.

Lists

Extremely Hazardous Substance	NA
(40 CFR 355, SARA Title III Section 302)	
CERCLA Hazardous Substance	No
(40CFR 302.4)	

Toxic Chemical	Yes 273 mg/kg Oral
Toxic to Aquatic	Yes 80 mg/L per 24hr

16. OTHER INFORMATION

Issue Date: 9/15/15

List of References: Information on the individual components was taken directly of the manufacturer MSDS sheet.

This bulletin cannot cover all possible situations which the user may experience during use. Each aspect of the user's operation should be examined to determine if, or where, additional precautions may be necessary. The information provided on this MSDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not considered as a warranty or quality specification. The information relates only to the specific material designated. STEAM-CO., LLC assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of this product. Compliance with all applicable federal, state, and local laws remains the responsibility of the user.

SAFETY DATA SHEET

1. Identification

Product identifier	Sodium Hypochlorite Solution, 10-16%	
Other means of identification		
SDS number	502-USA-OLN	
Synonyms	Tri-Lite® 100, Tri-lite® 150, Tri-lite® 160, Tri-Lite® 200, Sodium Hypochlorite 12.5%, Bleach, Hypochlorite solution, Liquid bleach, Soda bleach solution, Sodium Hypochlorite 10%	
Recommended use	Biocide. Bleaching agent. Disinfectant. Water treatment.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Company name	Oltrin Solutions, LLC	
Address	PO Box 1195 11 E.V. Hogan Drive Hamlet, NC 28345-1195	
Telephone	910-419-6589	
E-mail	oltrincs@trinitymfg.com	
Emergency phone number	CHEMTREC (US/Canada)	1-800-424-9300
	CHEMTREC (International)	+1 703-527-3887 (collect calls accepted)

2. Hazard(s) identification

Physical hazards	Corrosive to metals	Category 1
Health hazards	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, single exposure	Category 3 (respiratory tract irritation)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

Label elements



Signal word DANGER

Hazard statement May be corrosive to metals. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep only in original container. Avoid release to the environment.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Contact with acids liberates toxic gas.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Sodium hypochlorite	7681-52-9	10 - 16
Sodium hydroxide	1310-73-2	0.2 - 1.0
Water	7732-18-5	Balance

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately. Wash contaminated clothing before reuse. Call a physician or poison control center immediately.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. With eye exposure, continue flushing during transport to hospital.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Do not use dry extinguishing media that contains ammonium compounds.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spillage to prevent material damage. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	<p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
Environmental precautions	Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases. See Section 14 for RQ reporting information.

7. Handling and storage

Precautions for safe handling

Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Observe good industrial hygiene practices. Do not apply heat or direct sunlight. Temperature and product concentration affect product quality and decomposition rates.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store in a corrosive resistant container. Consult container manufacturer for additional guidance. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents, and all metals except titanium.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Sodium hypochlorite (CAS 7681-52-9)	STEL	2 mg/m3

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Reports indicate that sodium hypochlorite can react with various fabrics usually increasing with concentration. Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. FRC treated cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific information about their products.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Clear.

Physical state

Liquid.

Form

Liquid.

Color

Pale yellow - Straw colored

Odor	Chlorine-like.
Odor threshold	0.9 mg/m ³
pH	13
Melting point/freezing point	-17 °F (-27.22 °C)
Initial boiling point and boiling range	231.8 °F (111 °C)
Flash point	Not relevant.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not relevant.
Flammability limit - upper (%)	Not relevant.
Explosive limit - lower (%)	Not relevant.
Explosive limit - upper (%)	Not relevant.
Vapor pressure	12 mmHg @ 20 °C (68 °F) for 12.5 % by weight solution
Vapor density	Not available.
Relative density	1.163 @ 15.5 °C (60 °F) (Weight % Available Chlorine = 10.34) 1.203 @ 15.5 °C (60 °F) (Weight % Available Chlorine = 12.52) 1.216 @ 15.5 °C (60 °F) (Weight % Available Chlorine = 13.19) 1.255 @ 15.5 °C (60 °F) (Weight % Available Chlorine = 15.14)
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	1.16 - 1.25 g/cm ³ 9.7 lb/gal @ 15.5 °C (60 °F) (Weight % Available Chlorine = 10.34) 10.03 lb/gal @ 15.5 °C (60 °F) (Weight % Available Chlorine = 12.52) 10.14 lb/gal @ 15.5 °C (60 °F) (Weight % Available Chlorine = 13.19) 10.46 lb/gal @ 15.5 °C (60 °F) (Weight % Available Chlorine = 15.14)
Molecular formula	NaOCl
Molecular weight	74.5 g/mol

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Avoid ultraviolet (UV) light sources. Excessive heat. Reacts violently with strong acids. Acid contact will produce chlorine gas. Amine contact will produce chloramines.
Incompatible materials	Strong oxidizing agents. Acids. Metals. Organic compounds. Ammonia.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Vapors and spray mist may irritate throat and respiratory system and cause coughing.
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Skin contact	Causes skin burns.
Eye contact	Causes eye burns.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.
Symptoms related to the physical, chemical and toxicological characteristics	Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity Occupational exposure to the substance or mixture may cause adverse effects.

Product	Species	Test Results
Sodium Hypochlorite Solution, 10-16% (CAS Mixture)		
Acute		
Dermal, LD50	Rabbit	3000 - 10000 mg/kg
Oral, LD50	Rat	8200 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization Not classified.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium hypochlorite (CAS 7681-52-9) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not classified.

Specific target organ toxicity - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not classified, however droplets of the product may be aspirated into the lungs through ingestion or vomiting and may cause a serious chemical pneumonia.

Chronic effects Prolonged or repeated overexposure causes lung damage.

Further information Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects. Low in toxicity to avian wildlife.

Product	Species	Test Results
Sodium Hypochlorite Solution, 10-16%		
Aquatic		
Crustacea	EC50	Daphnia magna
	LC50	Daphnia magna
Fish	LC50	Bluegill (Lepomis macrochirus)

Persistence and degradability The product contains inorganic compounds which are not biodegradable. Degrades slowly to sodium chloride, sodium chlorate and oxygen.

Bioaccumulative potential The product is not expected to bioaccumulate.

Mobility in soil No data available.

Other adverse effects None known.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number	UN1791
UN proper shipping name	Hypochlorite solutions
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Environmental hazards	
Marine pollutant	Yes (Sodium hypochlorite solution)
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, N34, T4, TP2, TP24
Packaging exceptions	154
Packaging non bulk / bulk	203 / 241
RQ	100 lbs. (Sodium Hypochlorite) For gallons of product equivalent to 100 lbs of available sodium hypochlorite, use the following: 98.7 gallons 10% by weight product, 75.9 gallons for 12.5% by weight, 72.5 gallons for 13% by weight, 60.8 gallons for 15% by weight.

IATA

UN number	UN1791
UN proper shipping name	Hypochlorite solution
Transport hazard class(es)	
Class	8
Subsidiary risk	
Packing group	- III
Environmental hazards	Yes
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1791
UN proper shipping name	HYPOCHLORITE SOLUTION
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling

Transport in bulk according Not applicable.
To Annex II of MARPOL
73/78 and the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium hydroxide (CAS 1310-73-2)	LISTED
Sodium hypochlorite (CAS 7681-52-9)	LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes
	Delayed Hazard - No
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Sodium hydroxide (CAS 1310-73-2)
Sodium hypochlorite (CAS 7681-52-9)

US. New Jersey Worker and Community Right-to-Know Act

Sodium hydroxide (CAS 1310-73-2)
Sodium hypochlorite (CAS 7681-52-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium hydroxide (CAS 1310-73-2)
Sodium hypochlorite (CAS 7681-52-9)

US. Rhode Island RTK

Sodium hydroxide (CAS 1310-73-2)
Sodium hypochlorite (CAS 7681-52-9)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Sodium Hypochlorite Solution, 10-16%

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Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	No Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 1-January-2015

Revision date 10-March-2015

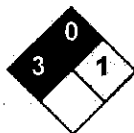
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Revision History

02-17-15	Section 14	Added information for RQ calculation
03-10-15	Section 14	Added "solution" to name of Marine Pollutant for US DOT transport information

Further information NFPA Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

NFPA ratings



List of abbreviations

LD50: Lethal Dose, 50%.
 LC50: Lethal Concentration, 50%.
 EC50: Effective concentration, 50%.
 TWA: Time weighted average.

References

EPA: AQUIRE database
 HSDB® - Hazardous Substances Data Bank
 US. IARC Monographs on Occupational Exposures to Chemical Agents
 IARC Monographs. Overall Evaluation of Carcinogenicity
 ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices (2009)

Disclaimer

Oltrin Solutions, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.



SAFETY DATA SHEET

THE DOW CHEMICAL COMPANY*

Product name: KATHON™ CF150 BIOCID

Issue Date: 04/01/2015

Print Date: 04/08/2015

THE DOW CHEMICAL COMPANY* encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: KATHON™ CF150 BIOCID

Recommended use of the chemical and restrictions on use

Identified uses: Biocidal product

COMPANY IDENTIFICATION

THE DOW CHEMICAL COMPANY*

Agent for Rohm and Haas Chemicals LLC

100 INDEPENDENCE MALL WEST

PHILADELPHIA PA 19106-2399

UNITED STATES

Customer Information Number:

215-592-3000

SDSQuestion@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 1 800 424 9300

Local Emergency Contact: 989-636-4400

2. HAZARDS IDENTIFICATION

Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Skin corrosion - Category 1B

Serious eye damage - Category 1

Skin sensitisation - Category 1

Label elements

Hazard pictograms



Signal word: **DANGER!**

Hazards

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Precautionary statements**Prevention**

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.

Storage

Store locked up.

Disposal

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

no data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Aqueous solution of organic and inorganic compounds

This product is a mixture.

Component	CASRN	Concentration
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	>= 1.1 - <= 1.35 %

2-Methyl-4-isothiazolin-3-one	2682-20-4	>= 0.35 - <= 0.45 %
Magnesium Chloride	7786-30-3	>= 1.0 - <= 1.2 %
Magnesium nitrate	10377-60-3	>= 1.4 - <= 2.0 %
Water	7732-18-5	>= 95.0 - <= 96.0 %

4. FIRST AID MEASURES

Description of first aid measures

Inhalation: Move to fresh air. Give artificial respiration if breathing has stopped. If symptoms persist, call a physician.

Skin contact: IMMEDIATELY get under a safety shower. Remove contaminated clothing. Wash off with soap and water. Immediate medical attention is required. Wash contaminated clothing before re-use. Do not take clothing home to be laundered. Discard contaminated shoes, belts, and other articles made of leather.

Eye contact: Rinse immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Ingestion: Drink 1 or 2 glasses of water. IMMEDIATELY see a physician. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: MATERIAL IS CORROSIVE. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and convulsions may be necessary.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: no data available

Special hazards arising from the substance or mixture

Hazardous combustion products: no data available

Unusual Fire and Explosion Hazards: Combustion generates toxic fumes of the following: hydrogen chloride Nitrogen oxides (NOx) sulfur oxides

Advice for firefighters

Fire Fighting Procedures: Cool containers/tanks with water spray. Minimize exposure. Do not breathe fumes. Contain run-off.

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear a NIOSH approved (or equivalent) respirator (with organic vapor/acid gas cartridge and a dust/mist filter) during spill clean-ups and deactivation of this material. MATERIAL IS CORROSIVE. Protective clothing, including chemical splash goggles, nitrile or butyl rubber full length gloves, rubber apron, or clothing made of nitrile or butyl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of this material. If material comes in contact with the skin during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures, for further information.

Environmental precautions: Do not allow material to contaminate ground water system. Prevent product from entering drains.

Methods and materials for containment and cleaning up: WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to suitable containers for disposal. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer (if in accordance with local procedures, permits and regulations). DO NOT add deactivation solution to the waste pail to deactivate the adsorbed material. See Section 13, "Disposal Considerations", for information regarding the disposal of contained materials.

7. HANDLING AND STORAGE

Precautions for safe handling: This material is corrosive. For personal protection see section 8. Do not handle material near food, feed or drinking water.

Conditions for safe storage: Keep in a well-ventilated place. The product as supplied may evolve gas (largely carbon dioxide) slowly. To prevent the buildup of pressure the product is packaged in specially vented containers, where necessary. Keep this product in the original container when not in use. Container must be stored and transported in an upright position to prevent spilling the contents through the vent, where fitted. Do not store this material in containers made of the following: steel Do not store this material near food, feed or drinking water.

CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied. Expiration date based only on retention of >95% actives during storage at 20°C-25°C (68°F-77°F).

Storage stability

Storage temperature: 1 - 55 °C (34 - 131 °F)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
-----------	------------	-----------------	----------------

5-Chloro-2-methyl-4-isothiazolin-3-one	Rohm and Haas	TWA	0.076 mg/m3
2-Methyl-4-isothiazolin-3-one	Rohm and Haas	STEL	0.23 mg/m3
	Rohm and Haas	TWA	1.5 mg/m3
	Rohm and Haas	STEL	4.5 mg/m3

Exposure controls

Engineering controls: Use local exhaust ventilation with a minimum capture velocity of 150 ft/min. (0.75 m/sec.) at the point of dust or mist evolution. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Individual protection measures

Eye/face protection: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

Skin protection

Hand protection: Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Butyl-rubber. Nitrile rubber. PVC gloves >1 mm thickness. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. NOTE: Material is a possible skin sensitizer.

Other protection: Wear as appropriate: Chemical resistant apron, complete suit protecting against chemicals.

Respiratory protection: Typical use of this material does not result in workplace exposures that exceed the exposure limits listed in the Exposure Limit Information Section. For those special workplace conditions where the listed exposure limits are exceeded, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. For concentrations up to 10 times the exposure limit, wear a properly fitted NIOSH approved (or equivalent) half-mask or full facepiece air purifying respirator equipped with organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters. For those unlikely situations where exposure may greatly exceed the listed exposure limits (i.e. greater than 10-fold), or in any emergency situation, wear a properly fitted NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode or a full facepiece airline respirator in the pressure demand mode with emergency escape provision. See SECTION 6, Accidental Release Measures, for respirator and protective clothing requirements for spill clean-up and decontamination of this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	liquid
Color	Colorless to yellow
Odor	pungent
Odor Threshold	no data available

pH	2.0 - 4.0
Melting point/range	-3.00 °C (26.60 °F)
Freezing point	no data available
Boiling point (760 mmHg)	ca.100.00 °C (212.00 °F)
Flash point	Not applicable
Evaporation Rate (Butyl Acetate = 1)	<1.00
Flammability (solid, gas)	Not Applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor Pressure	no data available
Relative Vapor Density (air = 1)	ca.0.6200
Relative Density (water = 1)	1.0200
Water solubility	completely soluble
Partition coefficient: n-octanol/water	log Pow: 0.401 <i>Method Not Specified.</i>
Auto-ignition temperature	Not applicable
Decomposition temperature	no data available
Dynamic Viscosity	3.000 mPa.s at 25.00 °C (77.00 °F)
Kinematic Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available
Molecular weight	no data available
Percent volatility	95.00 - 96.00 % Water

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: no data available

Chemical stability: no data available

Possibility of hazardous reactions: Stable under recommended storage conditions.
Product will not undergo polymerization.

Conditions to avoid: no data available

Incompatible materials: Avoid contact with the following: Oxidizing agents Amines. Reducing agents. Mercaptans.

Hazardous decomposition products: Nitrogen oxides (NO_x) Sulphur oxides hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Acute toxicity

Acute oral toxicity

LD50, Rat, female, 3,310 mg/kg

LD50, Rat, male, > 5,000 mg/kg

Acute dermal toxicity

LD50, Rabbit, > 5,000 mg/kg

Acute inhalation toxicity

LC50, Rat, 4 Hour, dust/mist, > 5 mg/l Estimated.

Skin corrosion/irritation

This material is corrosive.

Serious eye damage/eye irritation

Corrosive

Sensitization

Has caused allergic skin reactions when tested in guinea pigs.

Specific Target Organ Systemic Toxicity (Single Exposure)

Product test data not available.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Product test data not available.

Carcinogenicity

Did not cause cancer in laboratory animals.

Teratogenicity

Did not show teratogenic effects in animal experiments.

Reproductive toxicity

In animal studies, did not interfere with reproduction.

Mutagenicity

Not mutagenic when tested in bacterial or mammalian systems.

Aspiration Hazard

Product test data not available.

COMPONENTS INFLUENCING TOXICOLOGY:

5-Chloro-2-methyl-4-isothiazolin-3-one

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Aspiration Hazard

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

2-Methyl-4-isothiazolin-3-one**Specific Target Organ Systemic Toxicity (Single Exposure)**

May cause respiratory irritation.

Route of Exposure: Inhalation

Target Organs: Respiratory Tract

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Aspiration Hazard

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

Magnesium Chloride**Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

Magnesium nitrate**Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

For similar material(s):

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Aspiration Hazard

Based on available information, aspiration hazard could not be determined.

Carcinogenicity**Component**

Magnesium nitrate

List

IARC

Classification

Group 2A: Probably carcinogenic to humans

12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

General Information

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity

5-Chloro-2-methyl-4-isothiazolin-3-one

Acute toxicity to fish

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, Rainbow trout (*Oncorhynchus mykiss*), 96 Hour, 0.19 mg/l, OECD Test Guideline 203 or Equivalent

LC50, Bluegill sunfish (*Lepomis macrochirus*), 96 Hour, 0.28 mg/l

Acute toxicity to aquatic invertebrates

EC50, *Daphnia magna*, 48 Hour, 0.16 mg/l

Acute toxicity to algae/aquatic plants

NOEC, *Selenastrum capricornutum* (green algae), Growth rate, 0.0099 mg/l

EC50, Algae (*Selenastrum capricornutum*), 72 Hour, Growth rate, 0.018 mg/l

Toxicity to bacteria

EC50, Bacteria, 16 Hour, 5.7 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, *Daphnia magna* (Water flea), 21 d, number of offspring, 0.172000 mg/l

LOEC, *Daphnia magna* (Water flea), 21 d, number of offspring, 0.572000 mg/l

2-Methyl-4-isothiazolin-3-one

Acute toxicity to fish

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, *Oncorhynchus mykiss* (rainbow trout), 96 Hour, 4.77 mg/l, OECD Test Guideline 203 or Equivalent

Acute toxicity to aquatic invertebrates

LC50, *Daphnia magna* (Water flea), 48 Hour, 0.93 - 1.9 mg/l

Acute toxicity to algae/aquatic plants

EC50, Algae (*Selenastrum capricornutum*), 72 Hour, Growth rate, 0.158 mg/l, OECD Test Guideline 201

Chronic toxicity to aquatic invertebrates

NOEC, *Daphnia magna*, 21 d, 0.04 mg/l

Magnesium Chloride

Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).
LC50, *Gambusia affinis* (Mosquito fish), static test, 96 Hour, 16,500 mg/l, Method Not Specified.

Acute toxicity to aquatic invertebrates

EC50, *Daphnia magna* (Water flea), 24 Hour, 3,190 mg/l, Directive 84/449/EEC, C.2

Acute toxicity to algae/aquatic plants

EC50, alga *Scenedesmus* sp., 72 Hour, Biomass, 2,200 mg/l, OECD Test Guideline 201 or Equivalent

Magnesium nitrate**Acute toxicity to fish**

Not expected to be acutely toxic to aquatic organisms.

For similar material(s):

LC50, *Poecilia reticulata* (guppy), 96 Hour, > 100 mg/l

Acute toxicity to aquatic invertebrates

For similar material(s):

EC50, *Daphnia magna*, 48 Hour, > 100 mg/l

Acute toxicity to algae/aquatic plants

For similar material(s):

ErC50, Algae, 72 Hour, Growth rate, > 100 mg/l

Persistence and degradability**5-Chloro-2-methyl-4-isothiazolin-3-one**

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10-day Window: Not applicable

Biodegradation: 98 %

Exposure time: 2 d

Method: OECD Test Guideline 302B or Equivalent

2-Methyl-4-isothiazolin-3-one

Biodegradability: Material is expected to be readily biodegradable.

Biodegradation: 98 %

Exposure time: 48 d

Method: Simulation study

Magnesium Chloride

Biodegradability: Biodegradation is not applicable.

Magnesium nitrate

Biodegradability: No relevant data found.

Bioaccumulative potential

Partition coefficient: n-octanol/water(log Pow): 0.401 Method Not Specified.

Mobility in soil

5-Chloro-2-methyl-4-isothiazolin-3-one

No relevant data found.

2-Methyl-4-isothiazolin-3-one

No relevant data found.

Magnesium Chloride

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): 23.7**Magnesium nitrate**

Potential for mobility in soil is very high (Koc between 0 and 50).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient(Koc): 24

13. DISPOSAL CONSIDERATIONS

Disposal methods: Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations. (See 40 CFR 268)

14. TRANSPORT INFORMATION

DOT

Proper shipping name	Corrosive liquid, acidic, organic, n.o.s.(5-Chloro-2-methyl-4-isothiazolin-3-one)
UN number	UN 3265
Class	8
Packing group	II

Classification for SEA transport (IMO-IMDG):

Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(5-Chloro-2-methyl-4-isothiazolin-3-one)
UN number	UN 3265
Class	8
Packing group	II
Marine pollutant	5-Chloro-2-methyl-4-isothiazolin-3-one
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Proper shipping name	Corrosive liquid, acidic, organic, n.o.s.(5-Chloro-2-methyl-4-isothiazolin-3-one)
UN number	UN 3265
Class	8
Packing group	II

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Acute Health Hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.)

Components

CASRN

Magnesium nitrate (10377-60-3) as nitrate compound

10377-60-3

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103

This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated RCRA ICR substance(s). (Nondesignated ICR substances apply to materials that will not be reused.) The Reportable Quantity(s) (RQ) are listed below. Releases in excess of its reportable quantity must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations.
D002, 100lbs.

Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

United States TSCA Inventory (TSCA)

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

EPA Registration Number: 707-133

16. OTHER INFORMATION

Hazard Rating System**HMIS**

Health	Flammability	Physical Hazard
3	0	0

Revision

Identification Number: 101110573 / 1001 / Issue Date: 04/01/2015 / Version: 2.0

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

Rohm and Haas	Rohm and Haas OEL's
STEL	Short Term Exposure Limit (STEL):
TWA	Time Weighted Average (TWA):

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

THE DOW CHEMICAL COMPANY* urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

COLUMBUS CONSOLIDATED GOVERNMENT
Georgia's First Consolidated Government



**FINANCE DEPARTMENT
PURCHASING DIVISION**

100 TENTH STREET, P. O. Box 1340
COLUMBUS, GEORGIA 31902-1340
706-653-4105, Fax 706-225-3033
BidLine 706-653-4536
www.columbusga.org

January 4, 2018

Addendum No. 1
Water Management Services (Annual Contract)
RFB No. 18-0026

Proposals should include acknowledgement of receipt for all Addenda:

Authorized Initials: BD

Firm: Steam-co, LLC

Vendors are informed that the above subject RFP is hereby modified, corrected, or supplemented as specified, described and set forth in this Addendum:

QUESTIONS / RESPONSES

Question: Who is the current vendor? And what is the current price you are paying for the water treatment program.

Response: The current vendor is Superior Water Services, and the price is \$974.00 per month (\$11,688.00 annually).

Andrea J. McCorvey
Purchasing Manager

COLUMBUS CONSOLIDATED GOVERNMENT
Georgia's First Consolidated Government



**FINANCE DEPARTMENT
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www.columbusga.org

January 9, 2018

ADDENDUM NO. 2
Water Management Services (Annual Contract)
RFB No. 18-0026

Proposals should include acknowledgement of receipt for all Addenda:

Authorized Initials:

Firm:

Steam-CO, LLC

Vendors are informed that the above subject RFB is hereby modified, corrected, or supplemented as specified, described and set forth in this Addendum:

I. DUE DATE EXTENSION

The due date is extended; sealed bids are due no later than 2:30 PM on Wednesday, January 24, 2018.

II. FORTHCOMING ADDENDUM

Within the next few business days, Columbus Consolidated Government anticipates releasing another addendum to provide responses to questions that have been received.

III. ACKNOWLEDGEMENT

Indicate that your company has received this Addendum in the appropriate areas and include with sealed Bid. **Failure to acknowledge receipt of this addendum may render your Bid "Incomplete".**

Andrea J. McCorvey
Purchasing Manager

COLUMBUS CONSOLIDATED GOVERNMENT

Georgia's First Consolidated Government



FINANCE DEPARTMENT PURCHASING DIVISION

100 TENTH STREET, P. O. BOX 1340
COLUMBUS, GEORGIA 31902-1340
706-653-4105, Fax 706-225-3033
BidLine 706-653-4536
www.columbusga.org

January 22, 2018

Addendum No. 3

Water Management Services (Annual Contract)
RFB No. 18-0026

Proposals should include acknowledgement of receipt for all Addenda:

Authorized Initials: AD

Firm: Steam-CO, LLC

Vendors are informed that the above subject RFP is hereby modified, corrected, or supplemented as specified, described and set forth in this Addendum:

I. DUE DATE EXTENSION

The due date is extended; sealed bids are due no later than 2:30 PM on Wednesday, January 31, 2018.

II. QUESTIONS/RESPONSES

Question 1: Will the City purchase the containment containers, or will the vendor provide?

Response: The vendor shall provide all necessary equipment and labor to install. Vendor should also be prepared to install missing items.

Question 2: Will the City purchase corrosion coupon racks and accessories, or does the vendor provide?

Response: Please refer to Question 1 response.

Question 3: Will the City provide for installation of coupon racks?

Response: Please refer to Question 1 response

Question 4: Presently, by-pass feeders do not exist at the Muscogee County Jail. Will the City purchase these or should they be provided by the vendor?

Response: Please refer to Question 1 response.

Question 5: Will the City provide installation of by-pass feeders Muscogee County Jail?

Response: Please refer to Question 1 response.

Question 6: A polyquat is specified as an alternative biocide, would Kathon WT be an acceptable substitute? Kathon WT is an Isothazolene.

Response: Kathon WT is acceptable.

Question 7: There are a number of locations that do not have the capability to feed. Does the City of Columbus want a quotation for additional equipment to accomplish a dual biocide feed at those locations that cannot do so, or is shock dosing with an alternate biocide during service visits acceptable?

Response: **SPECIFICATION CHANGE**

The specifications have been amended as follows:

Detailed Specifications

Scope of Work

- C. If additional equipment or services are needed, quotes will be obtained from the successful contractor.

Question 8: The specifications say you want 12 months' service on all closed loops, hot water, and chilled water. However, you state 11 of the hot water closed loops only operate five (5) months out of the year. Do you wish to have these 11 loops serviced on all 12 months?

Response: This change has been reflected on the Bid Form. See "Revised Bid Form", Section III., pages 4 - 5 of this addendum.

Question 9: Is Superior Water currently servicing each cooling tower two (2) times per month?

Response: That is the current requirement.

Question 10: Addendum 1 answered a question about who was the current water treater and what dollars the contract was for. It states the contract was awarded was at \$974 per month. This does not reflect the two new buildings that were added to the contract. Both of the new buildings (Trade Center and City Services Center) are a part of the account but one is line itemed out in the master invoice and the second is invoiced separately, by request of the City. The true invoice amount for this contract is \$1,408.23 per month. I am concerned that all bidders on this new RF[B] will think they are competing against the original price for service. We wanted to bring this to

your attention.

Response: Correction to Item 1 of Addendum No. 1. \$974.00 per month was the original Bid amount. At the first renewal, the contract amount increased to \$998.94. During the contract term, additional locations were added:

- Trade Center: \$250.00 per month.
- Citizen's Service Center: \$159.88 per month.

Bear in mind some items are serviced twice per month; some are serviced once per month; and some items are serviced only five months out of the year.

**Andrea J. McCorvey
Purchasing Manager**