

EVENT NO. 7132 – TOTAL ORGANIC CARBON ANALYZER
Bidder’s Checklist – Envelope Requirements

This checklist shall be attached to the outside of the envelope of a bid. Failure to complete, sign, and attach this checklist may result in a bid being deemed nonresponsive.

Nonresponsive bids will be returned to the vendor unopened.

Electronically submitted bids, if allowed, do not require this checklist. Please see event summary online to determine if electronic responses will be accepted.

Firm name: _____
 Contact person: _____
 Address: _____
 Phone number: _____
 Email address: _____

Envelope must contain the following documents:

Initials	Document
	Bid Proposal Form, Including Acknowledgement of Any Addenda
	Exception Sheet
	Contractor Affidavit and Agreement (Employee Eligibility Verification)
	Affidavit Verifying Status for City of Savannah Benefit Application

By signing below, bidder is attesting that all items listed in the checklist above have been included in the envelope.

Signature: _____ Date: _____

TOTAL ORGANIC CARBON ANALYZER

EVENT NO. 7132

SPECIFICATIONS AND SPECIAL CONDITIONS

- 4.0 The purpose of these specifications is to describe requirements for Teledyne 14-9600-100 Model Total Organic Carbon Analyzer or equivalent.

To submit pricing electronically for this event, enter pricing for each line item shown under the lines tab on the event summary. To enter pricing manually, complete the attached bid proposal form. Manually submitted bids must be submitted on the bid proposal forms contained in these specifications in order to be considered.

A pre-bid conference has been scheduled to be conducted at the Purchasing Office, 301 West Oglethorpe Avenue, Savannah, Georgia, 31401. This meeting will allow contractors to discuss the specifications and resolve any questions and/or misunderstandings that may arise with City staff. You are invited to attend.

4.1 Description

- 4.1.1 The analyzer must comply with Standard Method 5310C, USEPA 415.1 – 3, USP 643, and EP 2.2.44.
- 4.1.2 Total run times for TOC samples in duplicate will be 12 minutes or less and triplicates will be 18 minutes or less.
- 4.1.3 The analyzer will use a combination of sodium persulfate in an aqueous solution and UV irradiation to oxidize organic compounds. Other reagent mixtures can be used to easily treat high chloride samples.
- 4.1.4 Detection of the carbon dioxide resulting from oxidation of inorganic carbon (IC) and organic carbon (OC) will be accomplished by a Non-dispersive Infrared (NDIR) detector.
- 4.1.5 The analyzer will be able to detect NPOC by first removing IC in a dedicated IC chamber, then measuring NPOC by oxidizing organic compounds in a dedicated UV chamber.
- 4.1.6 The analyzer must be able to drain the spent sample from the UV chamber through the same transfer line as entry to optimize cleaning between repetitions.
- 4.1.7 The analyzer must use a Mass Flow Controller for instant control of carrier gas. The analyzer must be able to change the flow rate (0 – 500 ml/min) during different modes of a user-defined method. A pressure measurement must accompany the flow rate.
- 4.1.8 The analyzer must be able to perform a leak check as a diagnostic tool of the entire flowpath.
- 4.1.9 Non-Dispersive Infrared (NDIR) detector will be housed in a thermally protective closed system. No additional purge gas is necessary to eliminate environmental CO₂.

- 4.1.10 The analyzer must use Static Pressure Concentration (SPC) detection technology to measure CO₂ in one measurement compared to the error evolve in flow through detection. The analyzer must use the Fabry-Perot Interferometer (FPI) within the NDIR for direct measurement of CO₂ gas.
- 4.1.11 The analyzer must be able to perform an auto-calibration by auto-dilution from stock standard or user created standards. Actions of Halt, Re-calibrate, Continue or Manual intervention of the Calibration must occur after the analyzer finishes a calibration curve.
- 4.1.12 The analyzer must be able to perform one calibration curve and one blank that may be applied to all ranges over the entire instrument's analytical range. An automatic benchmark tool must be able to perform installation verification.
- 4.1.13 Analyzer uses single multi-port valve to control all sample and reagent handling. Sample, acid, and oxidant are transported by one automated variable liquid syringe.
- 4.1.14 Analyzer will have the ability to liquid-mix a sample between the vial and syringe as a user controlled method variable.
- 4.1.15 Autosampler will be robotic design and uses open architecture so that monitoring sample processing can be easily and clearly viewed.
- 4.1.16 Range of analysis with and without using an autosampler will be 0 to 4,000 ppm. The cross contamination of the analyzer shall be less than 1%.
- 4.1.17 Autosampler must have the ability to hold (120) 20 mL, (90) 50 mL, or (75) 40 mL sample containers and four dedicated standard 125mL bottles for calibration, check, and system suitability standards.
- 4.1.18 Autosampler must have a built-in needle rinsing station that can use rinse water or sample to eliminate cross-contamination. Autosampler will have septum piercing capability of vials.
- 4.1.19 UV Chamber will be made of Pyrex and be easily visible at all times.
- 4.1.20 Software will operate in either Windows 2000/ XP and be a 21 CFR 11 compliance tools (electronic signatures & audit trails). Built-in PC Standalone Feature with Touchscreen attached to instrument.
- 4.1.21 Software will have Setup menu that allows selection of user, diagnostic screen, readying instrument to run samples, and control and monitor gas flow rates / pressures through the entire system flowpath.
- 4.1.22 Software will have Run menu that allows selection of preprogrammed or user defined methods; entering sample identification; entering number of replicates; monitoring real time sample graphical display; and access to past sample results and statistics of sample sets.
- 4.1.23 Software will have all sample data and metadata (calibration curve, blanks, method, electronic signatures) of all versions in a sample report. The report must have the ability to be exported to an HTML or XML file.
- 4.1.24 Analyzer and autosampler will be supplied with a one year parts and labor warranty.
- 4.1.25 Installation and on-site start-up assistance available by factory trained personnel.

5.0 General Conditions

- 5.1 The bid response shall include all documents required in the bidder's checklist.

All referenced documents must be completed and returned in their entirety to constitute a complete bid.

- 5.2 Original invoices should be sent to:

City of Savannah
Accounts Payable
P.O. Box 1027
Savannah, Georgia 31402

- 5.3 The vendor is responsible for determining and acknowledging any addenda issued in connection with this bid solicitation. All addenda issued for this event must be acknowledged in order for a bid to be considered.
- 5.4 To be awarded bids, vendors must be registered as suppliers on the City of Savannah's website at www.savannahga.gov.
- 5.5 This contract will be awarded to the vendor offering the lowest net price to the City, and meeting or exceeding all specifications herein.
- 5.6 All bids must be submitted in **DUPLICATE**.

EXCEPTION SHEET

Event #7132

If the commodity(ies) and/or services proposed in the response to this bid is in anyway different from that contained in this proposal or bid, the bidder is responsible to clearly identify by specification section number, all such differences in the space provided below. Otherwise, it will be assumed that bidder's offer is in total compliance with all aspects of the proposal or bid.

Below are the exceptions to the stated specifications:

Date

Signature

Company

Title

BID PROPOSAL FORM

(SUBMIT AS THE COVER SHEET)

City of Savannah Purchasing Department
301 West Oglethorpe Avenue
2nd floor
Savannah, Georgia 31401
ATTN: Purchasing Director

EVENT NUMBER: 7132

Business Location: (Check One)

Chatham County
 City of Savannah
 Other

ALL BIDDERS MUST BE REGISTERED VENDORS ON THE CITY'S WEBSITE TO BE AWARDED AN EVENT. PLEASE REGISTER AT WWW.SAVANNAHGA.GOV.

MANUALLY SUBMITTED BIDS MUST BE SUBMITTED ON THIS BID PROPOSAL FORM IN ORDER TO BE CONSIDERED.

Name of Bidder: _____

Street Address: _____

City, State, Zip Code: _____

Phone: _____ Fax: _____

Email: _____

DO YOU HAVE A BUSINESS TAX CERTIFICATE ISSUED IN THE STATE OF GEORGIA? (CHECK ONE) YES: _____ NO: _____

**FROM WHAT CITY/COUNTY _____
TAX CERTIFICATE #: _____ FED TAX ID #: _____**

**INDICATE LEGAL FORM OF OWNERSHIP OF BIDDER (STATISTICAL PURPOSES ONLY):
CHECK ONE: _____ CORPORATION _____ PARTNERSHIP
_____ INDIVIDUAL _____ OTHER (SPECIFY: _____)**

**Do you plan to subcontract any portion of this project? Yes _____ No _____
If yes, please complete the attached schedule of DBE participation. Also complete the schedule if you will be using any DBE suppliers.**

ADDENDA ACKNOWLEDGEMENT

My signature below confirms my receipt of all addenda issued for this proposal.

Signature

*This acknowledgement is separate from my signature on the fee proposal form. My signature on the fee proposal form will not be deemed as an acknowledgement of addenda.

THE UNDERSIGNED PROPOSES TO FURNISH THE FOLLOWING ITEMS IN STRICT CONFORMANCE TO THE BID SPECIFICATIONS AND BID INVITATION ISSUED BY THE CITY OF SAVANNAH FOR THIS BID. ANY EXCEPTIONS ARE CLEARLY MARKED IN THE ATTACHED COPY OF BID SPECIFICATIONS.

ITEM NO	DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE	TOTAL
1	Total Organic Carbon Analyzer	1		

TOTAL BID \$ _____

PAYMENT TERMS: PLEASE CHECK ONE AND FILL IN BLANKS

(Minimum of 10 working days must be allowed for discount to be considered in bid award)

___ Less ___ % ___ Days Prompt Payment Discount (if offered) (_____)

___ Net - 30 Days (no discount offered) - 0 -

TOTAL NET BID \$

=====

I certify this bid complies with the General and Specific Specifications and Conditions issued by the City except as clearly marked in the attached copy.

Please Print Name

Authorization Signature

Date

NON-DISCRIMINATION STATEMENT

The prime contractor / bidder certifies that:

- (1) No person shall be excluded from participation in, denied the benefit of, or otherwise discriminated against on the basis of race, color, national origin, or gender in connection with any bid submitted to the City of Savannah or the performance of any contract resulting therefrom;
- (2) That it is and shall be the policy of this Company to provide equal opportunity to all business persons seeking to contract or otherwise interested in contracting with this Company, including those companies owned and controlled by racial minorities, cultural minorities, women, and individuals belonging to other socially and economically disadvantaged groups;
- (3) In connection herewith, we acknowledge and warrant that this Company has been made aware of, understands and agrees to take affirmative action to provide such companies with the maximum practicable opportunities to do business with this Company;
- (4) That this promise of non-discrimination as made and set forth herein shall be continuing in nature and shall remain in full force and effect without interruption;
- (5) That the promises of non-discrimination as made and set forth herein shall be and are hereby deemed to be made as part of and incorporated by reference into any contract or portion thereof which this Company may hereafter obtain and;
- (6) That the failure of this Company to satisfactorily discharge any of the promises of non-discrimination as made and set forth herein shall constitute a material breach of contract entitling the City of Savannah to declare the contract in default and to exercise any and all applicable rights and remedies including but not limited to cancellation of the contract, termination of the contract, suspension and debarment from future contracting opportunities, and withholding and or forfeiture of compensation due and owing on a contract.

Signature

Title

CONTRACTOR AFFIDAVIT AND AGREEMENT
Employment Eligibility Verification

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 contracting with the City of Savannah has registered with and is participating in a federal work authorization program* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA), P.L. 99-603], in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to this contract with the City of Savannah, contractor will secure from such subcontractor(s) similar verification of compliance with O.C.G.A. 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01-.08 or a substantially similar form. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the City of Savannah at the time the subcontractor(s) is retained to perform such service.

EEV / Basic Pilot Program* User Identification Number

BY:

Contractor Name

Date

Signature of Authorized Officer or Agent

Printed Name of Authorized Officer or Agent

Title of Authorized Officer or Agent of Contractor

*As of the effective date of O.C.G.A. 13-10-91, the applicable federal work authorization program is the "EEV / Basic Pilot Program" operated by the U. S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).
* * * * *

Instructions for Completing Contractor Affidavit and Agreement Form

As required under Senate Bill 529 – “Georgia Security and Immigration Compliance Act” of 2006, O.C.G.A. Section 2, Article 3 13-10-91, public employers, their contractors and subcontractors are required to verify the work eligibility of all newly hired employees through an electronic federal work authorization program. The Georgia Department of Labor has added a new Chapter 300-10-1, entitled "Public Employers, Their Contractors and Subcontractors Required to Verify New Employee Work Eligibility Through a Federal Work Authorization Program," to the Rules and Regulations of the State of Georgia. (See website: http://www.dol.state.ga.us/pdf/rules/300_10_1.pdf.) The new rules designate the “Employment Eligibility Verification (EEV) Basic Pilot Program” operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security as the electronic federal work authorization program to be utilized for these purposes. The EEV/Basic Pilot Program can be accessed at: <https://verify.uscis.gov/enroll/StartPage.aspx?JS=YES>. Bidders shall comply with this new rule and submit with your bid the attached “Contractor Affidavit and Agreement.”

Affidavit Verifying Status for City of Savannah Benefit Application

By executing this affidavit under oath, as an applicant for a City of Savannah, Georgia Business License or Occupation Tax Certificate, Alcohol License, Taxi Permit, Contract or other public benefit as reference in O.C.G.A. Section 50-36-1, I am stating the following with respect to my bid for a City of Savannah contract for _____. [Name of natural person applying on behalf of individual, business, corporation, partnership, or other private entity]

1.) _____ I am a citizen of the United States.

OR

2.) _____ I am a legal permanent resident 18 years of age or older.

OR

3.) _____ I am an otherwise qualified alien (8 § USC 1641) or nonimmigrant under the Federal Immigration and Nationality Act (8 USC 1101 *et seq.*) 18 years of age or older and lawfully present in the United States.*

In making the above representation under oath, I understand that any person who knowingly and willfully makes a false, fictitious, or fraudulent statement or representation in an affidavit shall be guilty of a violation of Code Section 16-10-20 of the Official Code of Georgia.

Signature of Applicant: _____ Date _____

Printed Name: _____

SUBSCRIBED AND SWORN
BEFORE ME ON THIS THE
____ DAY OF _____, 20____

* _____
Alien Registration number for non-citizens.

Notary Public
My Commission Expires:

***Instruction for Completing Systematic Alien Verification
for Entitlement (SAVE) Form***

O.C.G.A. § 50-36-1, requires Georgia’s cities to comply with the federal **Systematic Alien Verification for Entitlements (SAVE) Program**. SAVE is a federal program used to verify that applicants for certain “public benefits” are legally present in the United States. Contracts with the City are considered “public benefits.” Therefore, the successful bidder will be required to provide the Affidavit Verifying Status for City of Savannah Benefit Application prior to receiving any City contract. The affidavit is included as part of this bid package but is only required of the successful bidder.