



St. Johns River

Water Management District

Ann B. Shortelle, Ph.D., Executive Director

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On the internet at www.sjrwmd.com.

DATE: March 12, 2020
TO: Prospective Respondents
FROM: Carol Taylor Miller, Senior Procurement Specialist
SUBJECT: Addendum #1 to Quote Request #35477 for Total Organic Carbon (TOC) Autoanalyzer

The District is adding a Total Nitrogen (TN) Module to this Quote Request. The revised Attachment 1-A, Revised Specifications is attached to this Addendum, Item F. Additional information regarding the Preventive Maintenance (PM) requirements has also been added to Item E.

Delivery of the TOC Autoanalyzer and the TN Module, implementation, acceptance testing, and invoicing must be completed by **June 30**, 2020.

The revised Attachment 1-A indicates these changes and any additional changes in **Bold and Underline**.

Attachment 2-A, Revised Quotation Form is also attached to this Addendum with changes in **Bold and Underline**.

Attachment 3 - Affidavit as to Non-Collusion and Certification of Material Conformance; Attachment 4 - Qualifications Form - General; and Attachment 5 - Qualifications Form - Similar Commodity Sales, all remain the same and must be submitted as explained in original Quote Request 35477 document dated March 2, 2020.

NOTE: The Quote submittal date has been changed to **April 1, 2020** at 2:00 p.m. Questions must be submitted by **March 23, 2020** at 4:00 p.m. Quote must be emailed to cmiller@sjrwmd.com as an attachment in PDF format.

If you have any questions, please call me at (386) 329-4170 or e-mail cmiller@sjrwmd.com.

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**ATTACHMENT 1-A - REVISED SPECIFICATIONS
TOTAL ORGANIC CARBON (TOC) AUTOANALYZER**

I. INTRODUCTION/BACKGROUND

The St. Johns River Water Management District's (District) laboratory (Lab) requires one TOC Autoanalyzer **and one Total Nitrogen (TN) Module** for environmental water quality analysis, with software, autosampler and auto diluter. The successful respondent will not be required to provide the computer, but will be asked to perform the set-up required to make the TOC Autoanalyzer ready for use in the District's Lab.

II. OBJECTIVE

The objective is to award the purchase of one TOC Autoanalyzer, **TN Module**, and associated accessories and maintenance for environmental water quality analysis in the District's Lab.

III. MINIMUM SPECIFICATIONS

The successful respondent will be required to supply the instruments, associated accessories, and software; and will also be required to install the instruments and software, at no additional charge, at the District Palatka Lab facility.

A. Minimum Performance Specifications:

The Instrument must be capable of automatically running the 22nd Edition of Standard Method 5310B (combustion method 680 degrees C) for TOC analysis of surface and ground water samples preserved with Sulfuric Acid using TC minus IC methodology.

The instrument must be capable of automatic shutdown for unattended overnight operation. Vendor shall provide with the quote method detection limits (MDL), working ranges, and supporting data for the MDL calculations.

B. Instrument Operational Specifications that must be met by the Vendor:

1. System must be configured to be controlled by a Microsoft Windows 10 based PC.
2. Instrument must be capable of complete programming by operator.
3. The system must allow true walk-away operation with no operator monitoring or intervention.
4. Instrument must provide for automatic dilution of over-range samples at any concentration. Dilution capability must be from a minimum of 2 times to at least 50 times.
5. System must incorporate an electronic dehumidifier for maximum water vapor removal.
6. Autosampler must be controlled through the software and hold a minimum of ninety samples. Optional mechanical stirring capability must be available for maintaining a homogeneous solution in the sample vial even with particulates present.
7. Instrument must be capable of creating the TC and IC calibration curve from a stock standard using the automatic diluter.
8. The instrument must be able to handle high salt samples and sulfuric acid preserved samples.

C. Chemistry Specifications that must be met by the Vendor:

1. Instrument must comply with the linearity, accuracy, and precision set forth in Standard Method (22nd edition) 5310B for TOC analysis.
2. Instrument must be able to ensure complete oxidation of refractory compounds, analyzer must use catalytic combustion method, with a catalyst temperature to be optimized at 680 degrees C.
3. Instrument must be able to perform analysis of TOC by TC minus IC methodology.
4. Detection Limit must be 50 ppb or better. Measuring range from 50 ppb to 20,000 ppm TC and 30,000 ppm IC.
5. To ensure complete oxidation of organics when particulates are present, the instrument must be able to handle particles as large as 0.5 mm as standard.
6. To minimize drift due to ambient temperature changes, and to provide more reproducible results, NDIR detector must be thermally stabilized. NDIR detector must have a linearity of at least 5 orders of magnitude.

D. Instrument Software Specifications that must be met by the Vendor:

1. Available Software must be capable of running on 32-bit and 64-bit platforms.
2. The software must allow the operator to view and print the calibration curve.
3. The software must communicate from the computer to the TOC analyzer through a USB port or conversion dongle and shall not require a plug-in card to perform communication, analog-to-digital conversion or digital input-output control.
4. The software must automatically detect off-scale samples.
5. The calibration report must include date and time of analysis for each and all calibration standards as well as samples.
6. The software must run under Microsoft Windows 10 operating system.
7. The software must allow for seamless reporting across batches and templates.
8. The software must have a control chart for tracking of QC checks and sample trends.
9. Vendor Instrument software must be capable of producing and exporting a data output in comma delimited, tab delimited, or Microsoft Excel format.
10. Vendor instrument software must be capable of importing a comma delimited, tab delimited, or Microsoft Excel format for the population of sample tables used in the analysis of samples.

E. Service/Support Specification that must be met by the Vendor:

1. The Vendor's Autoanalyzer must include at least a one-year warranty on parts and labor and a service agreement that shall include the following:
 - a. Installation and Customer familiarization at no cost to the District.
 - b. A Preventive Maintenance (PM) contract option.
 - c. Vendor must have an on-site service program available, with local service available within 24-72 hrs.
 - d. Vendor must supply technical support to ensure minimum downtime.
 - e. Vendor must maintain a dedicated Technical Support e-mail during normal operating hours.

- f. Vendor must maintain a dedicated Technical Support telephone line, answered by a qualified Technical Support specialist and permanently manned during normal operating hours.
- g. Vendor shall supply a manual (hard copy and electronic) **and SOP** for operating the instrument in compliance with Standard Method (22nd edition) 5310B **for TOC. The vendor shall also supply a manual (hard copy and electronic) and SOP for operating the TN module.**
- h. The service agreement and preventative maintenance consumables shall be capable of keeping instrumentation up and running even with our variable load of low and high conductivity samples.
- i. Consumables for preventative maintenance need to be included in service quote.
- j. **The annual PM agreement must include two PM visits with the cost of PM supplies included for both the TOC and TN applications. The District's sample load consists of low salinity and high salinity samples. The PM agreement must include service and PM costs to replace any high salinity consumable parts.**
- k. **The annual PM agreement must also include site visit emergency service throughout the period of the PM agreement.**
- l. **Copies of the preventive maintenance agreement service level must be included with the bid.**

F. Total Nitrogen (TN) Module:

- 1. **Must be able to function simultaneously with TOC analytical sample analysis to analyze for total nitrogen. For example, the TOC data value and TN data value must come from the same injection of sample aliquot.**
- 2. **Must be able to use same software as TOC analytical sample analysis.**
- 3. **Must be able to use same sample import table as the TOC analytical sample analysis as well as export the TOC and TN data in same export file.**
- 4. **Must be able to obtain a working MDL of 0.05 mg/L N with a calibration range up to 10 mg/L N.**
- 5. **Must include pricing and preventative maintenance costs in Attachment 2-A.**

Acceptance Testing Requirements:

Acceptance testing must be completed prior to final acceptance of installation and must include the following:

- 1. Sample list from District LIMS loaded into template on instrument software for analysis.
- 2. Analyze samples identified on template including Standard Curves and QC samples.
- 3. District QA/QC standards are met including an Initial Analyst Demonstration of Capability.
- 4. Output an electronic file that is uploaded into the District LIMS electronically.
- 5. **Must include implementation and validation of TN module.**

No payment will be made to Vendor prior to completion of the Acceptance testing. If the system does not perform adequately on the above acceptance tests, the Vendor shall address the District's concerns until District staff are satisfied. Once the Vendor has successfully completed the

Acceptance testing, the vendor shall invoice the District. **Implementation, acceptance testing, and invoicing must be completed prior to June 30, 2020.**

If District staff determine that the unit has failed the Acceptance testing, Vendor shall remove the product solicited by the District and the District shall not be liable to the Vendor for any amount.

IV. TIME FRAMES AND DELIVERABLES

The successful respondent will be issued a Purchase Order for the one TOC Autoanalyzer **and Total Nitrogen (TN) Module.**

Delivery of all items, implementation, acceptance testing, and invoicing must be completed prior to June 30, 2020.

**ATTACHMENT 2-A - REVISED QUOTATION FORM
 QUOTATION REQUEST 35477
 TOC AUTOANALYZER**

QUOTATIONS ARE DUE BY 2:00 P.M. APRIL 1, 2020

Please provide the unit price of the TOC, the **TN Module**, and the price of annual preventive maintenance per year for the items. Provide the cost of shipping where indicated and provide the total price for the items plus the shipping where indicated. **Please refer to item E in Attachment 1-A for annual preventive maintenance requirements.**

ITEM #	DESCRIPTION	UNIT PRICE
1	Total Organic Carbon Autoanalyzer	
2	<u>Total Nitrogen Module</u>	
3	Price of Annual Preventive Maintenance Year 2, <u>TOC and TN</u>	
4	Price of Annual Preventive Maintenance Year 3, <u>TOC and TN</u>	
5	Price of Annual Preventive Maintenance Year 4, <u>TOC and TN</u>	
6	Price of Annual Preventive Maintenance Year 5, <u>TOC and TN</u>	
TOTAL COST OF SHIPPING		
TOTAL COST OF EQUIPMENT, SHIPPING, AND 5 YEARS OF PREVENTIVE MAINTENANCE		

(This form to be included with quote submittal)

**ATTACHMENT 2-A - REVISED QUOTATION FORM
QUOTATION REQUEST 35477
TOC AUTOANALYZER
Continued**

TOTAL COST OF EQUIPMENT, SHIPPING, AND PREVENTIVE MAINTENANCE:

I HEREBY ACKNOWLEDGE, as Respondent’s authorized representative, that I have fully read and understand all terms and conditions as set forth in this quote request and upon award of such quote, shall fully comply with such terms and conditions.

Date

Respondent (firm name)

Address

E-mail address

Signature

Telephone number

Typed name and title

(This form to be included with quote submittal)