



## RETURN BIDS TO:

## RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid Receiving  
- PWGSC

1550, Avenue d'Estimauville

1550, D'Estimauville Avenue

Québec

Québec

G1J 0C7

FAX pour soumissions: (418) 648-2209

## REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

### Proposal To: Public Works and Government Services Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

### Proposition aux: Travaux Publics et Services Gouvernementaux Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

### Comments - Commentaires

### Vendor/Firm Name and Address

### Raison sociale et adresse du

### fournisseur/de l'entrepreneur

### Issuing Office - Bureau de distribution

TPSGC/PWGSC

601-1550, Avenue d'Estimauville

Québec

Québec

G1J 0C7

<b>Title - Sujet</b> Analyseur de carbone organique -TOC	
<b>Solicitation No. - N° de l'invitation</b> 23240-180160/A	<b>Date</b> 2017-09-13
<b>Client Reference No. - N° de référence du client</b> 23240-180160	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$QCN-032-17207	
<b>File No. - N° de dossier</b> QCN-7-40114 (032)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2017-10-24</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Heure Avancée de l'Est HAE
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Fortin, Marie-Claire	<b>Buyer Id - Id de l'acheteur</b> qcn032
<b>Telephone No. - N° de téléphone</b> (418) 649-2764 ( )	<b>FAX No. - N° de FAX</b> (418) 648-2209
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>          <b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>          <b>Signature</b>          <b>Date</b>	

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Requirement**

The requirement is detailed at article 6.2 of the Resulting Contract Clauses section.

### **1.2 Debriefings**

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

### **1.3 Trade Agreements**

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Canadian Free Trade Agreement (CFTA).

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

#### **2.1.1 SACC Manual Clauses**

B1000T (2014-06-26) Condition of material – Bid

### **2.2 Submission of Bids**

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Your proposal can be transmitted by fax to # 418-648-2209 or by mail to the following address:

Bid Receiving Unit  
Public Works and Government Services Canada (PWGSC)  
1550 D'Estimauville Avenue  
Quebec City, Quebec, Canada, G1J 0C7

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority [Marie-Claire.Fortin@tpsgc-pwgsc.gc.ca](mailto:Marie-Claire.Fortin@tpsgc-pwgsc.gc.ca) no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

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## **2.4 Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in the Province of Quebec.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **3.1 Bid Preparation Instructions**

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### **Section I: Technical Bid**

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

#### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment – Annex B. The total amount of Applicable Taxes must be shown separately.

##### **3.1.1 Exchange Rate Fluctuation**

[C3011T](#) (2013-11-06) Exchange Rate Fluctuation

##### **3.1.2 SACC Clause**

#### **Section III: Certifications**

Bidders must submit the certifications and additional information required under Part 5.

## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 4.1 Evaluation Procedures

- a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### 4.1.1 Technical Evaluation

- a) The bidder must include with its proposal the datasheets of the products offered.
- b) Although the bidders must proposed products that meet all the specifications described in the Annex A, at the closure date, bids will be evaluated on the following technical requirements at Annex C - Table of mandatory evaluation criteria.

**IMPORTANT:** The bidder should indicate, for each mandatory criteria, whether the proposed equipment complies or not by filling the relevant box. **The bidder must clearly demonstrate how the proposed equipment complies to each mandatory technical criteria at Annex C. Simply stating that the criteria are met is not sufficient.** Where it is necessary to refer to other documentation that is included in the proposal, bidders should include the precise location of the reference material including the title of the document, and the page and paragraph numbers. It is the bidder's responsibility to provide enough details to permit a complete evaluation.

Any proposal that does not clearly demonstrate compliance with each of the technical requirements listed in the "Mandatory Technical Criteria" table (Annex C) will be considered non-responsive.

#### 4.1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, DDP destination, Canadian customs duties and excise taxes included.

### 4.2 Basis of Selection

A bid must comply with the requirements of the bid solicitation including Annex A – Statement of requirement and all the mandatory technical criteria at Annex C to be declared responsive. The responsive bid with the lowest Total Bid Price (TBP) will be recommended for award of a contract.

## PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

### 5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

#### 5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the [Inteligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

### 5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

#### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the [Inteligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

#### 5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website ([http://www.esdc.gc.ca/en/jobs/workplace/human\\_rights/employment\\_equity/federal\\_contractor\\_program.page?&\\_ga=1.229006812.1158694905.1413548969](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969)).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award

#### 5.2.3 Bidder certifies that All Equipment is "Off-the-Shelf"

Any equipment bid to meet this requirement must be "off-the-shelf" (unless otherwise stated in this bid solicitation), meaning that each item of equipment is commercially available and requires no further research or development and is part of an existing product line with a field-proven operational history (that is, it has not simply been tested in a laboratory or experimental environment). If any of the equipment bid is a fully compatible extension of a field-proven product



line, it must have been publicly announced on or before the bid closing date. By submitting a bid, the Bidder is certifying that the entire equipment bid is off-the-shelf.

**5.2.4 OEM Certification (Annex D)**

- a) Any Bidder that is not the Original Equipment Manufacturer (OEM) for every item of hardware proposed as part of its bid is required to submit the OEM's certification regarding the Bidder's authority to provide and maintain the OEM's hardware, which must be signed by the OEM (not the Bidder). **(Annex D)**

No Contract will be awarded to a Bidder who is not the OEM of the hardware it proposes to supply to Canada, unless the OEM certification has been provided to Canada. Bidders are requested to use the OEM Certification Form included with the bid solicitation. Although all the contents of the OEM Certification Form are required, using the form itself to provide this information is not mandatory. For Bidders/OEMs who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.

- b) If the hardware proposed by the Bidder originates with multiple OEMs, a separate OEM certification is required from each OEM.
- c) For the purposes of this bid solicitation, EOM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.

## **PART 6 - RESULTING CONTRACT CLAUSES**

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

### **6.1 Security Requirements**

There is no security requirement applicable to this contract.

### **6.2 Requirement**

The Contractor must supply one (1) Dissolved organic carbon analyzer (TOC) in accordance with the Requirement described at Annex A and its technical submission entitled \_\_\_\_\_, dated \_\_\_\_\_.

### **6.3 Standard Clauses and Conditions**

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

#### **6.3.1 General Conditions**

2010A (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### **6.3.2 Supplemental General Conditions**

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance

### **6.4 Term of Contract**

#### **6.4.1 Period of the Contract**

The contract period is from the date of contract award until the end of the warranty period inclusively.

#### **6.4.2 Delivery Date**

All the deliverables must be received on or before eight (8) weeks after contract awarded.

### **6.5 Authorities**

#### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name : Marie-Claire Fortin  
Title : Procurement Agent  
Public Services and Procurement Canada  
Supply and Compensation Directorate  
Address : 1550 D'Estimauville Avenue,  
Quebec City, Quebec, Canada  
G1J 0C7  
Telephone : 418-649-2764  
Facsimile : 418-648-2209

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Id de l'acheteur - Buyer ID  
QCN032  
N° CCC / CCC No./ N° VME - FMS

E-mail : [Marie-Claire.Fortin@tpsgc-pwgsc.gc.ca](mailto:Marie-Claire.Fortin@tpsgc-pwgsc.gc.ca)

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

#### 6.5.2 Project Authority

The Project Authority for the Contract is : *(will be added to the contract)*

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

#### 6.5.3 Contractor's Representative

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

### 6.6 Payment

#### 6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex B for a cost of \$ \_\_\_\_\_ *(insert the amount at contract award)*. Customs duties are *included* and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

#### 6.6.2 Terms of payment

SACC Manual Clause H1000C, (2008-05-12) Single Payment

## 6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
  - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
  - c. By e-mail on PDF format at: [NRCan.invoice\\_imaging-service\\_dimagerie\\_des\\_factures.RNCan@Canada.ca](mailto:NRCan.invoice_imaging-service_dimagerie_des_factures.RNCan@Canada.ca)

## 6.8 Certifications and Additional Information

### 6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

## 6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in the Province of Quebec.

## 6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) the Articles of Agreement;
- (b) the supplemental general conditions 4001, (2015-04-01) Hardware Purchase, Lease and maintenance;
- c) the General Conditions 2010A (2016-04-04) Goods (Medium Complexity);
- d) Annex A, Statement of Requirement;
- e) Annex B, Basis of payment;
- f) Annex C, Table of mandatory evaluation criteria
- g) Annex D, Certification and bidder forms
- h) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*)

## 6.11 SACC Manual Clauses

G1005C	2016-01-28	Insurance
B1501C	2006-06-16	Electrical Equipment
D9002C	2007-11-30	Incomplete Assemblies

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## **6.12 Inspection and Acceptance**

The Project Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

## **6.13 Shipping Instructions - Delivery at Destination**

Goods must be consigned to the destination specified in the Contract and delivered DDP Delivered Duty Paid; Natural Resources of Canada, 1055 P.E.P.S. Street, Room 69A, Québec, Québec G1Y 4C7, Incoterms 2000 for shipments from commercial contractor.

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## **ANNEX « A »**

### **STATEMENT OF REQUIREMENTS**

#### **1. TITLE**

Dissolved organic carbon analyzer (TOC)

#### **2. BACKGROUND**

The Laurentian Forestry Centre's chemical analysis laboratory conducts chemical analyses of soil, water and plant materials for the purposes of research projects. The number of varied analysis is significant, with approximately 80,000 determinations per year, and has been increasing. This vast amount of analysis and sample characteristics defines the current needs.

The device will be set up on a table or counter with no hood.

#### **3. NEEDS**

##### **3.1 Dissolved organic carbon analyzer (TOC)**

Quantity required: 1

Components:

- I. Combustion chamber comprising an oxidation column by catalytic combustion and a gas recovery system.
- II. NDIR (non-dispersive infrared) sensor that is fully controlled by a microprocessor.
- III. Software and external microcomputer for entering and processing data, and operating the analyzer.
- IV. Sampler.
- V. Other specifications.

##### **3.2 Characteristics of major components**

###### **I. Combustion chamber and gas recovery system**

- The combustion chamber must be able to ensure the complete oxidation of refractory compounds; the analyzer must use a catalytic combustion method, with a catalyst temperature to be optimized to 680 °C for carbon.
- Kit with high salt content: The device must contain a module to treat matrices with a high salt content which allows at least 2,500 injections with sea water (3.5% of NaCl) with no maintenance.
- Electronic dehumidifier: The system must integrate an electronic dehumidifier controlled to a margin of 1 °C for maximum water vapour elimination.

###### **II. NDIR sensor**

- The analyzer must use a technique based on combustion by catalytic oxidation with a NDIR (non-dispersive infrared) sensor. To minimize the drift due to ambient temperature changes and to provide more consistent results, the NDIR sensor must be thermally stabilized (i.e.

65 °C) and use a microflow sensor technology. The NDIR sensor must have a linearity of at least 5 orders of magnitude and must be a sensor with a continuous flow system, because detectors with a high-pressure flow require higher maintenance due to the replacement of the gasket seal and their higher probability of leaks resulting in inaccurate results.

- The detection limit must be 4 ppb or lower.
- The device's total carbon measuring range must be 4 ppb to 30,000 ppm TC.
- The device's inorganic carbon measuring range must be 4 ppb to 35,000 ppm IC.
- Accuracy. The TOC analyzer must have an accuracy of 1.5% or lower.

### III. Microcomputer and software

- *Computer*: The computer provided with the analyzer must have all the necessary features (processor speed, RAM and ROM memory, etc.) for the optimal operation of the device, as well as data acquisition and processing.
- *Computer system*: In addition to the computer, the computer system must include a keyboard, a mouse, a 19-inch flat screen and all the necessary connectors.
- *Software*: The software which controls the analyzer must be able to operate on the Windows 7 Professional platform and allow for multitasking. It must:
  - Control and regulate the analyzer.
  - Perform stability and proper functioning tests based on the conditions specified by the user.
  - Provide real-time service diagnostics, including ambient temperature maps of the analyzer, pressures and sensor signal.
  - Check and inspect the system's pressure, and the combustion chamber and temperature controls.
  - Ensure data processing (time, integration, statistics, etc.)
  - Allow for analysis report edits are compatible with Excel.
  - Ensure control of the autosampler.
  - Allow users to view data and spectra.
  - Allow access to an automatic maintenance log to inform users of preventative maintenance tasks.

### IV. Sampler

- Control: The autosampler command must come directly from the analyzer.
- Rack for bottles and size of bottles: The autosampler must be able to receive up to 3 different sizes of bottles: 9 ml, 24 ml and 40 ml. It should be able to contain a minimum of 93 9-ml bottles, 93 24-ml bottles or 68 40-ml bottles.
- The autosampler module must be separate from the TOC. An all-in-one TOC and autosampler unit is not acceptable because if there is a problem with the sampler, it could be returned to the manufacturer and repaired while the TOC remained operational with the user.

- Injection method: The sample injection must be carried out using a slide mechanism with no maintenance. Injections using the septum method are not acceptable.
- Injection volume: The injection volume of the sample must be between 10 and 2,000 uL with a single syringe.
- The device must provide for the automatic dilution of a range of samples at any concentration. The dilution range must be at least 2 to 50 times.

#### **V. Other specifications**

- Analysis time: The TOC must have an analysis time of no more than 4 minutes per injection.
- The methods accepted must comply with the "Standard Methods for the Examination of Water and Wastewater", 5310B, EPA Method 415.1, EPA Method 415.3, EPA Method 9060A and USP <643>.
- Must meet the CSA standards.
- A one-year supply kit must be supplied with the system. This kit must include spare parts for parts requiring maintenance or regular replacement.
- Provide a list of all the necessary products, gases and supplies for use.
- Specify the replacement parts.
- Provide an instruction manual (one (1) paper copy and one (1) electronic copy on a USB key), mandatory in English, and in French, if available.
- The system must have a one (1) year warranty on parts and labor, which includes at least one (1) preventive maintenance visit (including travel), **at no extra charge**, in the customer's premises within 12 months of installation.
- Updates are to be included for all firmware and/or software that come with the analyzer for the lifespan of the device.
- The supplier must install and ensure the initial operation at the customer's premises in Quebec City.
- The supplier must provide a two-day training session in French for an operator at the customer's premises in Quebec City. The training must focus on the full operation of the system and on minimal maintenance.
- The supplier must be available to provide technical support by phone or email during business hours from Canada and the US from 8 a.m. to 5 p.m.



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File No. - N° du dossier  
QCN-7-40114

Id de l'acheteur - Buyer ID  
QCN032  
N° CCC / CCC No./ N° VME - FMS

## ANNEX « B »

### BASIS OF PAYMENT

Art.	Description	Qty	UD	Firm Unit Price	Total Firm Price (CAD)
1	<b>Dissolved organic carbon analyzer (TOC)</b> In accordance with the specifications described in Annex "A".  Specify the Brand Name and model of equipment:  Brand Name : _____  Model : _____  (Including User Manual in French or English)	1	EACH	_____ \$	_____ \$
2	One (1) year supply of consumable parts	1	EACH	_____ \$	_____ \$
3	Complete installation of equipment and software at the Laurentian Forestry Centre in Quebec City	1	LOT	_____ \$	_____ \$
4	Two (2) days of training in French at the Laurentian Forestry Centre in Quebec City	1	LOT	_____ \$	_____ \$
5	DDP (Québec, Quebec, Canada), including custom duty, handling and delivery	1	LOT	_____ \$	_____ \$
TOTAL BID PRICE (TBP) =					_____ \$
Note: Price in Canadian currency, not including Applicable Sales Taxes.					

## ANNEX « C »

### TABLE OF MANDATORY EVALUATION CRITERIA

The bidder must include with its proposal the datasheets of the products offered.

Although the bidders must proposed products that meet all the specifications described in the Annex A, at the closure date, bids will be evaluated on the following technical requirements at Annex C - Table of mandatory evaluation criteria.

**IMPORTANT:** The bidder should indicate, for each mandatory criteria, whether the proposed equipment complies or not by filling the relevant box. **The bidder must clearly demonstrate how the proposed equipment complies to each mandatory technical criteria at Annex C. Simply stating that the criteria are met is not sufficient.** Where it is necessary to refer to other documentation that is included in the proposal, bidders should include the precise location of the reference material including the title of the document, and the page and paragraph numbers. It is the bidder's responsibility to provide enough details to permit a complete evaluation.

Any proposal that does not clearly demonstrate compliance with each of the technical requirements listed in the "Mandatory Technical Criteria" table (Annex C) will be considered non-responsive.

TABLE OF MANDATORY EVALUATION CRITERIA				
Mandatory Technical Specifications:		Compliance		Bidder's Specification (The tenderer should indicate the reference to the technical documents included in the bid)
		Yes	No	
1.	The device must contain a module to treat matrices with a high salt content which allows at least 2,500 injections with sea water (3.5% of NaCl) with no maintenance.			
2.	The device must have an analysis time of no more than 4 minutes per injection.			
3.	The detection limit must be 4 ppb or lower.			
4.	The device's total carbon measuring range must be 4 ppb to 30,000 ppm TC.			
5.	The device's inorganic carbon measuring range must be 4 ppb to 35,000 ppm IC.			
6.	Accuracy. The TOC analyzer must have an accuracy of 1.5% or lower.			
7.	The autosampler must be a module that is separate from the TOC.			
8.	The sample injection must be carried out using a slide mechanism with no maintenance.			
9.	The methods accepted must comply with the , 5310B, EPA Method 415.1, EPA Method 415.3, EPA Method 9060A and USP <643>.			
10.	The NDIR sensor must have a linearity of at least 5 orders of magnitude.			

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**ANNEX « D »**

**CERTIFICATION AND BIDDER FORMS**

**Form 1 – To be submitted with bid**

**5.2.4. OEM Certification**

OEM Certification Form

This confirms that the original equipment manufacturer (OEM) identified below has authorized the Bidder named below to provide and maintain its products under any contract resulting from the bid solicitation identified below.

Name of OEM	_____
Signature of authorized signatory of OEM	_____
Print Name of authorized signatory of OEM	_____
Print Title of authorized signatory of OEM	_____
Address for authorized signatory of OEM	_____
Telephone no. for authorized signatory of OEM	_____
Fax no. for authorized signatory of OEM	_____
Date signed	_____
Solicitation Number	_____
Bidder's name	_____