



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Procurement Hub – Fredericton
301 Bishop Drive
Fredericton, NB E3C 2M6

29 June 2020

F5211-200116

ADVANCED CONTRACT AWARD NOTICE

TITLE: Scientific Lab Services

ACAN:

The purpose of this Advance Contract Award Notice (ACAN) is to signal the government's intention to award a contract for these services to the N.B. Research & Productivity Council, 921 College Hill Rd, Fredericton NB, E3B 6Z9. Before awarding a contract, however, the government would like to provide other suppliers with the opportunity to demonstrate that they are capable of satisfying the requirements set out in this Notice, by submitting a statement of capabilities during the ACAN posting period.

If other potential suppliers submit a statement of capabilities during this ACAN posting period that meets the requirements set out in the ACAN, the government will proceed to a full tendering process on either GETS or through traditional means, in order to award the contract.

If no other supplier submits, on or before the closing date, a statement of capabilities meeting the requirements set out in the ACAN, a contract will be awarded to the pre-selected supplier.

INTRODUCTION:

DFO requires a high level of expertise in Scientific Lab Services Feld Sampling collection. It is a requirement that the lab meets the varied requirements of DFO programs including but not limited to: DNA, molecular biology, virology, bacteriology. These services are provided by technicians, biologists, chemist, geneticists, and statisticians, etc.

BACKGROUND:

DFO's Coastal Ecosystem Science Division (CESD) based at the Saint Andrews Biological Station (SABS) (St. Andrews, NB) and at the Bedford Institute of Oceanography (BIO) (Dartmouth, NS) is responsible for conducting research and providing science-based advice to Fisheries, Fish and Fish Habitat Protection Program, Oceans and Aquaculture Management in support of Fisheries and Oceans Canada (DFO) Corporate Business Plan. Much of this research is funded through various internal, collaborative and external funding agreements with durations of 1-3 years.

OBJECTIVES:

DFO requires Quality Assurance/Quality Controlled analytical data. The ideal is an internationally recognized data generation standard, such as the International Standards Organization (ISO) 17025 protocol. This applies to organic and inorganic chemistry, feeds analysis, fish pathogen, genetics and molecular biology analyses.

WORK REQUIREMENT:

The scientific objectives of this contract is to provide on an as needed basis data for the varied requirements of DFOs programs including but not limited to: DNA, molecular biology, virology, bacteriology, trace metals.

To meet the requirements of the contract the following tasks must be completed by the contractor:

Analytical Chemistry:

Task	Unit of Billing	Frequency might use over 3-year period
Aquatic Toxicity (Fresh Water – ISO 17025 Accredited Environment Canada Methods)		
Rainbow Trout Acute Lethality (EPS 1/RM/9, 13)	Per sample/volume of samples	Infrequent
Rainbow Trout pH stabilization (EPS 1/RM/50)	Per sample/volume of samples	Infrequent
Daphnia magna acute lethality (EPS 1/RM/11, 14)	Per sample/volume of samples	Infrequent
Ceriodaphnia dubia Test of reproduction and Survival (EPS 1/RM/21)	Per sample/volume of samples	Infrequent
Organic		
PCBs in water, sediment and biota	Per sample / volume of samples	Infrequent
PAH and Alkyl PAH in water sediment and biota	Per sample / volume of samples	Infrequent
Phenols and alkyl Phenols in water and sediment	Per sample / volume of samples	Infrequent
Hydrocarbons in water and sediment	Per sample / volume of samples	Infrequent
VOC in water and sediment	Per sample / volume of samples	Infrequent
Pesticide Residues in water sediment and biota	Per sample / volume of samples	100

Task	Unit of Billing	Frequency might use over 3-year period
Dioxins and Furans in water, sediment and biota	Per sample / volume of samples	50
Brominated Flame Retardants in water, sediment and biota	Per sample / volume of samples	Infrequent
Antibiotic Residues in biota	Per sample / volume of samples	Infrequent
Inorganic		
<u>General Chemistry in water</u>	Per sample / volume of samples	390
<u>Trace Metals (31 element analysis) in water, sediment and biota</u>	Per sample / volume of samples	800
<u>Specialty Trace Metals analysis (i.e. otoliths)</u>	Per sample / volume of samples	50
<u>Mercury (total and Methyl Mercury) in water, sediment and biota</u>	Per sample / volume of samples	120
<u>Grain Size in sediment</u>	Per sample / volume of samples	Infrequent
Food		
Nutritional Analysis	Per sample / volume of samples	300
Fat Analysis	Per sample / volume of samples	300
Protein	Per sample / volume of samples	450
Fish Health Services:		
RT-PCR (One step) includes specimen extraction, amplification and detection)	Per sample / volume of samples	600

Task	Unit of Billing	Frequency might use over 3-year period
PCR (only)	Per sample / volume of samples	100
qRT-PCR (quantitative real-time RT-PCR) (includes specimen extraction, amplification and quantification)	Per sample / volume of samples	1000
qPCR (quantitative real-time PCR) (includes specimen extraction, amplification and quantification)	Per sample / volume of samples	500
DNA extraction (only)	Per sample / volume of samples	150
Total RNA extraction (only)	Per sample / volume of samples	450
RT (reverse transcription) (per RNA sample)	Per sample / volume of samples	Infrequent
Technical tasks, laboratory (e.g. method development)	Per sample / volume of samples	500
Real-time PCR (semi-quantitative) (includes specimen extraction, amplification and detection)	Per sample / volume of samples	300
Real-time RT-PCR (semi-quantitative) (includes specimen extraction, amplification and detection)	Per sample / volume of samples	Infrequent
Virus isolation (no RT-PCR confirmation)	Per sample / volume of samples	300
Viral culture in flask, 50ml	Per sample / volume of samples	300
Viral titration (per culture or per cell line)	Per sample / volume of samples	300

Task	Unit of Billing	Frequency might use over 3-year period
Virology (two cell lines)	Per sample / volume of samples	Infrequent
Virology (additional cell lines)	Per sample / volume of samples	Infrequent
Necropsy (post-mortem examination)	Per sample / volume of samples	500
Bacterial culture presumptive ID and propagation	Per sample / volume of samples	Infrequent
Bacterial characterization	Per sample / volume of samples	Infrequent
Bacterial Population Assessment	Per sample/volume of samples	50
Parasite culture presumptive ID and propagation	Per sample / volume of samples	Infrequent
Antibiotic sensitivity testing	Per sample / volume of samples	Infrequent
ELISA assays (per sample (1-5) (>5))	Per sample / volume of samples	Infrequent
Na+, K+, ATPase testing	Per sample / volume of samples	600
water analysis (dissolved oxygen, TAN, nitrite, nitrate, metals, pesticides, aquaculture pharmaceuticals, temperature, alkalinity, hardness, salinity/conductivity, etc.)	Per sample / volume of samples	100
Genotyping:		
Salmon USFWS "continent of origin" protocol (per sample)	Per sample / volume of samples	Infrequent

Task	Unit of Billing	Frequency might use over 3-year period
Genotyping – high-throughput genotyping using well developed highly variable microsatellite and microarray panels for a range of salmonids and finfish species - one multiplex (per sample)	Per sample / volume of samples	900
Genotyping – high-throughput genotyping using well developed highly variable microsatellite and microarray panels for a range of salmonids and finfish species- two multiplexes (per sample)	Per sample / volume of samples	150
Wildlife genotyping - for court, Standards Council of Canada accredited method) (per sample)	Per sample / volume of samples	Infrequent
Custom Genotyping – developing a robust panel of genotyping markers for various species of aquatic animals including salmon, haddock, cod, halibut, mussels, oysters, sea urchin, etc. (depends on species and number of markers required-quoted on as necessary)	per hour	Infrequent
Broodstock analyses and development-consultation	per hour	60
Population (genetic) studies- inbreeding, relatedness, parentage/pedigree analysis (per hour)	per hour	60
Molecular Biology Research and Development:		

Task	Unit of Billing	Frequency might use over 3-year period
Writing protocols, project reports	All inclusive rate (include per hour, materials and travel to meetings)	120
Assist or lead in development of experimental design	All inclusive rate (include per hour, materials and travel to meetings)	120
Assist or lead in development of a test or method	All inclusive rate (include per hour, materials and travel to meetings)	120
Epidemiological study design	All inclusive rate (include per hour, materials and travel to meetings)	Infrequent
Statistical data analysis	All inclusive rate (include per hour, materials and travel to meetings)	120
Data analyses, not statistic	All inclusive rate (quoted by job: per hour, materials)	60
Vaccine development	All inclusive rate (quoted by job: per hour, materials)	Infrequent
Vaccines and therapeutants testing and validation (depend on extend of validation, quoted by job)	(feed, labor) (/kg/m3/day)	Infrequent
Disinfection Efficacy Testing	All inclusive rate (include per hour, materials and travel to meetings)	Infrequent
Sampling:		
Sample collection from a laboratory study	per fish/per tissue by volume	500

Task	Unit of Billing	Frequency might use over 3-year period
Sample collection on field	All inclusive of person time, travel and expenses for contractor	300
Trips to field site	All inclusive of person time, travel and expenses for contractor	36
Sample collection by boat (per boat hr)	All inclusive of person time, travel and expenses for contractor	Infrequent
<i>Note: sample collection would be limited to areas along the Fundy Coast (Moncton to St. Stephen) and the Fundy Islands. Collections by boat would be in Passamaquoddy Bay, Bay of Fundy and around aquaculture sites within those Bays.</i>		

TASKS AND DELIVERABLES:

Following these analyses, the data will be delivered to Fisheries and Oceans Canada in various formats depending on the projects. The final format could be electronic files, hard copy file and or both.

MANDATORY CRITERIA:

- The Contractor must be able to perform the various types of data analysis listed in the work requirement section of this ACAN.
- The Contractor must be able to coordinate the receipt of these samples within a 24 hour window to their facility.
- The Contractor must be able to commence analysis of samples upon receipt to ensure sample integrity.
- The Contractor must be able to visit the SABS in St. Andrews, NB upon scheduled request an estimated 22 times a year to aid with sampling.
- The Contractor must be able to respond to urgent visit requests to the SABS in St. Andrews, NB within a 4 hour period upon notification an estimated 5 times a year.

ESTIMATED VALUE

The total value of the contract is estimated at \$333,333.00 including all applicable taxes for the firm period from contract award to 31 March 2021. Option year one is estimated at \$333,333.00 and option year two is estimated at \$333,333.00.

SECURITY REQUIREMENT

No Security Requirement

TRADE AGREEMENTS APPLICABILITY OR OTHER OBLIGATIONS:

Canadian Free Trade Agreement.

GOVERNMENT CONTRACTS REGULATIONS EXCEPTION AND LIMITED TENDERING REASONS:

The following policy requirements are applicable to this ACAN process:

Applicable Exceptions to Soliciting Bids under the Government Contracting Regulations (GCRs)
(Section 6):

Section 10.2.1 Section 6 (d) only one person or firm is capable of performing the work applies to this ACAN for the following reasons:

There are no known alternative sources of supply. It is feasible and affordable to compete the requirement.

CONTRACT PERIOD:

The period of the contract is from contract award to 31 March 2021 inclusive. The contract will include 2 optional years each of 1 year duration, to be activated at the discretion of DFO.

Firm Period: Contract award to 31 March 2021

Option Year 1: 1 April 2021 to 31 March 2022

Option Year 2: 1 April 2022 to 31 March 2023

SUPPLIER'S RIGHT TO SUBMIT A STATEMENT OF CAPABILITIES:

Suppliers who consider themselves fully qualified and available to provide the services described herein, **must submit a Statement of Capabilities in writing to the Contracting Officer identified in this Notice on or before closing date. The Statement of Capabilities must clearly demonstrate how the supplier meets the advertised requirements.**

CLOSING DATE FOR SUBMITTING STATEMENT OF CAPABILITIES:
14 July 2020 at 2:00 p.m. (ADT)

Inquiries and statements of capabilities are to be directed to:

Michael Peters

Contracting Specialist – Contracting Services

Procurement Hub – Fredericton

Telephone: (506) 429-2359

Email: DFOtenders-soumissionsMPO@dfo-mpo.gc.ca