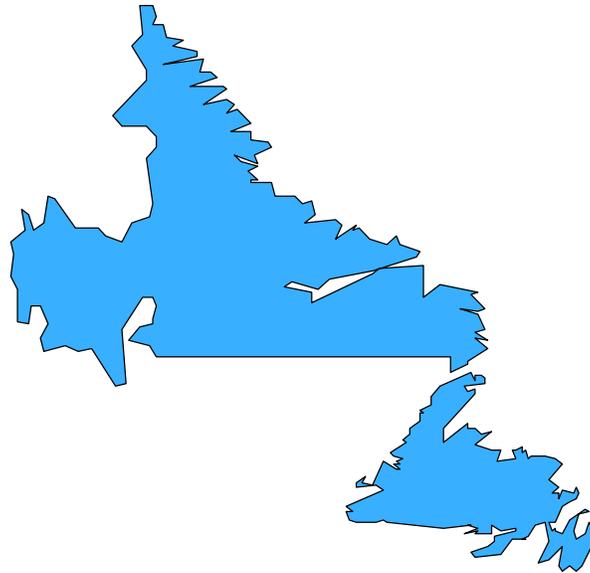


**PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
REAL PROPERTY CONTRACTING
NL DIVISION**

SPECIFICATION

**Regional Individual Standing Offer for
Minor Dredging - Various Locations -
Western Newfoundland and Southern Labrador**

SOLICITATION #: EA011-202854/A



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SPECIFICATIONS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGES</u>
<u>Division 01 - General Requirements</u>		
00 01 11	LIST OF CONTENTS	1
01 10 10	GENERAL INSTRUCTIONS	7
01 35 24	SPECIAL PROCEDURES FIRE SAFETY REQUIREMENTS	6
01 35 25	SPECIAL PROCEDURES LOCKOUT REQUIREMENTS	8
01 35 29	HEALTH & SAFETY REQUIREMENTS	10
01 35 43	ENVIRONMENTAL PROCEDURES	4
 <u>Division 35 - Waterway and Marine Construction</u>		
35 20 23	DREDGING	9
 <u>Appendix 1 - Additional Documentation</u>		6

LIST OF DRAWINGS

<u>DRAWING NO.</u>	<u>TITLE</u>	<u>PAGES</u>
1 of 1	DREDGE AREAS	1

-
- 1.1 SCOPE
- .1 The work covered under this contract consists of the furnishing of all plant, labour, and equipment to carry out minor dredging operations in various locations complete in strict accordance with specifications and subject to all terms and conditions of the contract.
 - .2 Only items in the unit price table will be measured for payment. All other work necessary to complete Call-Ups under the Standing Offer will be considered incidental to the Standing Offer and not measured separately for payment.
- 1.2 DESCRIPTION OF WORK
- .1 The work will consist of, but will not necessarily be limited to, the following:
 - .1 The dredging and disposal of Class "B" material at various locations.
 - .2 Dredging will be on a Call-Up or Standing Offer basis.
- 1.3 SITE OF WORK
- .1 Work will generally be carried out at various locations as per the attached map and as follows:
 - .1 On the island portion of Western Newfoundland from Rose Blanche to St. Anthony, on both sides of the Northern Peninsula.
 - .2 On the Southern portion of Labrador from L'Anse au Clair to Red Bay.
 - .3 It is anticipated that the following potential locations could be dredged under this Standing Offer:
 - .1 Parson's Pond
 - .2 Fischells
 - .3 Fox Island River
 - .4 Martin's Point
 - .5 Bakers Brook
 - .6 Sally's Cove
 - .7 Three Mile Rock
 - .8 Eddies Cove West
 - .9 Spirit Cove
 - .10 Josephine's Cove
 - .11 Bank Head Cove
 - .4 The above list is provided for bidding purposes only. During the execution of the Work, the Departmental Representative reserves the right to
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add to, subtract from, or re-order the sequencing of dredge locations shown in the above list as budget, schedule and practicality demands.

- 1.4 DATUM .1 Datum used for this project is Lowest Normal Tide (LNT). Location and elevation of benchmarks (B.M.), if required for each individual site, will be provided by the Departmental Representative.
- .2 Contractors intending to bid are advised to consult the tide tables for the locations. Tide tables can be found at:
<http://www.waterlevels.gc.ca/eng>
- 1.5 FAMILIARIZATION WITH SITE .1 Before submitting an offer, it is recommended that all Contractors familiarize themselves with potential sites and surroundings as identified in clause 1.3 and satisfy themselves as to the general form and nature of the work and equipment necessary for the completion of the work, the means of access to the site, severity, exposure and uncertainty of weather, soil conditions, any accommodations they may require, and in general shall themselves obtain all necessary information as to the risks, contingencies and other circumstances which may influence or affect their offer. No allowance shall be made subsequently in this connection on account of error or negligence to properly observe and determine the conditions that will apply.
- .2 Contractors, or those they invite to site, are to review specification Section 01 35 29 - Health and Safety Requirements before visiting each site. Take all appropriate safety measures for any visit to site, either before or after award of Standing Offer.
- 1.6 CODES AND STANDARDS .1 Perform work in accordance with the latest standards and regulations of federal, provincial and municipal jurisdictions as
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applicable, including all amendments up to the Standing Offer closing date. In any case of conflict or discrepancy, the more stringent requirements shall apply.

- .2 Workmanship must meet or exceed requirements of specified standards, code and referenced documents.
- 1.7 SETTING OUT WORK
- .1 Assume full responsibility for and execute complete layout of dredging limits to locations, lines and elevations as directed by the Departmental Representative. Dredge limits will be provided for each Call-Up site on a sketch provided by the Departmental Representative or by verbal directions from the Departmental Representative on site.
 - .2 Provide devices required to layout and construct work.
- 1.8 WORK SCHEDULE
- .1 The Contractor will be required to mobilize all equipment as required to the Call-Up site within twenty-four (24) hours of notification from the Departmental Representative. Failure to mobilize all required equipment within that time period will result in the Departmental Representative rescinding the Call-Up and reissuing the Call-Up to the second Contractor on the Standing Offer. Project work must occur at the first available daytime tide immediately following the twenty-four (24) Call-Up period. No payment will be made for partial mobilization by the contractor.
 - .2 The schedule, including all updates, shall be forwarded to the Departmental Representative for approval. Take necessary measures to complete work within the approved time. Do not change schedule without Departmental Representative's approval.
 - .3 Weather conditions, short construction season, delivery challenge, fishery opening dates and the location of the work site may
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require the use of longer work days and additional work force to complete the project within the specified completion time.

1.9 NOTICE TO
SHIPPING/MARINERS

- .1 Notify the Marine Communications and Traffic Services Centre of Fisheries and Oceans Canada, at (709)772-2083, where required, prior to commencement of any work and upon completion, in order to allow for the issuance of notices.
- .2 Any vessels or barges utilized must be marked in accordance with the provisions of the Canada Shipping Act Collision Regulations. Refer to http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1416/

1.10 SITE
OPERATIONS

- .1 The Contractor must exercise care so as not to obstruct or damage public or private property in area. The contractor will be responsible for arranging for the use of sufficient space adjacent to each site to conduct operations and storage of equipment. Any equipment stored at the site which interferes with day-to-day activities at or near the site will be moved promptly at the Contractor's expense upon request by the Departmental Representative.
- .2 After completion of each Call-Up, restore the area to its original condition. Damage to ground and property will be repaired by the Contractor at no cost to the Canada. Remove all materials, residue and excess, etc. and leave site in a condition acceptable to Departmental Representative.

1.11 WORK
COORDINATION

- .1 Contractor is responsible for coordinating the work with the various stakeholders where there may be interference with each other.
- .2 Canada will not be responsible or held accountable for any extra costs incurred as a result of the failure to carry out coordination or work. Disputes between the various stakeholders as a result of their
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not being informed of the areas and extent of work shall be the sole responsibility of the Contractor and shall be resolved at no cost to Canada.

- 1.12 TAXES & PERMITS .1 Contractor to pay all applicable federal, provincial and municipal taxes as required.
- .2 Obtain and pay for all permits and certificates as required by municipal, provincial and other authorities.
- .3 Obtain compliance certificates as prescribed by legislative and regulatory provisions of federal, provincial and municipal authorities as applicable to the performance of each Call-Up.
- .4 Submit to Departmental Representative, a copy of application submissions and approval documents received for above referenced authorities.
- 1.13 INVOICING .1 Contractor is required to notify Departmental Representative upon completion of work at each Call-Up location before submitting an invoice.
- .2 Invoice must show:
- .1 Standing Offer number
 - .2 Call-Up number
 - .3 Work location
 - .4 Description of Work
 - .5 Project Number
 - .6 Quantities broken down as per unit price table
- .3 Support documentation and back-up invoices are to be provided as required.
- 1.14 EXISTING SERVICES .1 Before commencing work, establish locations and extent of any service lines in the area of work and notify Departmental Representative of findings.
- .2 Where unknown services are encountered, immediately advise the Departmental Representative and confirm any findings in writing.
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- 1.15 CONTRACTOR`S USE OF SITE
- .1 Dredging operations, including storage of equipment for each Call-Up, shall not interfere with fishing activity and/or operations at each harbour facility.
 - .2 Contractor will take adequate precautions to protect existing concrete wharf decks and asphaltic approach areas when travelling and operating equipment.
 - .3 Exercise care so as not to obstruct or damage public or private property in the area.
 - .4 After completion of each Call-Up, restore the area to its original condition. Damage to ground and property will be repaired by the Contractor at the Contractor's expense. Remove and dispose of all dredge spoils as required and approved by the Departmental Representative. Leave the site in a condition acceptable to the Departmental Representative.
- 1.16 ACCESS
- .1 Provide and maintain adequate access to the project site.
 - .2 Maintain any existing roads authorized for access to the project site for the duration of the contract. Repair any damage resulting from the Contractor's use of these roads.
- 1.17 USE OF EQUIPMENT
- .1 The Departmental Representative can, at any time, request the use of any specific piece of equipment from the Contractor's "List of Equipment". The final selection for the specific type of equipment utilized on any site will be decided by the Departmental Representative.
- 1.18 EQUIPMENT
- .1 Contractor is required to submit a list of its equipment, operators and site superintendents to be used for this contract prior to award of the Standing Offer. The Year, Model Number, Capacity, Gross Weight, Dimensions, etc. are to also be provided for each piece of equipment.
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- .2 Provide proof of ownership or proof of adequate lease for each piece of equipment on the list to the satisfaction of the Departmental Representative.
- .3 The List of Equipment and the Equipment must be available for inspection prior to award of contract.
- 1.19 DOCUMENTS REQUIRED
 - .1 Maintain at job site, one copy of each of the following:
 - .1 Contract Drawings/Sketches
 - .2 Specifications
 - .3 Addendums
 - .4 Copy of approved work schedule
 - .5 Site Specific Health and Safety Plan and other related documents
 - .6 Other documents as stipulated elsewhere in contract documents
- 1.20 INTERPRETATION OF THE DOCUMENTS
 - .1 Supplementary to the Order of Precedence article of the General Conditions of the Contract, the Division 01 sections take precedence over the technical specification sections in other Divisions of the Specification Manual.
- 1.21 MEASUREMENT FOR PAYMENT
 - .1 No measurement for payment shall be made for items under this section. All costs associated with this specification section will be considered incidental to the Standing Offer.

- 1.1 SECTION INCLUDES .1 Fire Safety Requirements.
.2 Hot Work Permit.
- 1.2 RELATED WORK .1 Section 01 35 25 - Special Procedures on Lockout Requirements.
.2 Section 01 35 29 - Health and Safety Requirements.
- 1.3 REFERENCES .1 Not used.
- 1.4 DEFINITIONS .1 Hot Work defined as:
.1 Welding work.
.2 Cutting of materials by use of Torch or other open flame devices.
.3 Grinding with equipment which produces sparks.
- 1.5 SUBMITTALS .1 Submit copy of Hot Work Procedures and sample of Hot Work permit to Departmental Representative for review, within 14 calendar days after notification of acceptance of bid.
.2 Submit in accordance with the Submittal General Requirements specified in Section 01 33 00.
- 1.6 FIRE SAFETY REQUIREMENTS .1 Implement and follow fire safety measures during Work. Comply with following:
.1 National Fire Code, 2015.
.2 Fire Protection Standards FC 301 and FC 302.
.3 Federal and Provincial Occupational Health and Safety Acts and Regulations as specified in Section 01 35 29.
.2 In event of conflict between any provisions of above authorities the

most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, Departmental Representative will advise on the course of action to be followed.

1.7 HOT WORK
AUTHORIZATION

- .1 Obtain Departmental Representative's written "Authorization to Proceed" before conducting any form of Hot work on site.
- .2 To obtain authorization submit to Departmental Representative:
 - .1 Contractor's typewritten Hot Work Procedures to be followed on site as specified below.
 - .2 Description of the type and frequency of Hot Work required.
 - .3 Sample Hot Work Permit to be used.
- .3 Upon review and confirmation that effective fire safety measures will be implemented during performance of hot work, Departmental Representative will provide authorization to proceed as follows:
 - .1 Issue one written "Authorization to Proceed" covering the entire project for duration of work or;
 - .2 Separate work, or segregate certain parts of work, into individual entities. Each entity requiring a separately written "Authorization to Proceed" from Departmental Representative. Follow Departmental Representative's directives in this regard.
- .4 Requirement for individual authorization based on:
 - .1 Nature or phasing of work;
 - .2 Risk to Facility operations;
 - .3 Quantity of various trades

needing to perform hot work on project or;

.4 Other situation deemed necessary by Departmental Representative to ensure fire safety on premises.

.5 Do not perform any Hot Work until receipt of Departmental Representative's written "Authorization to Proceed" for that portion of work.

.6 In tenant occupied Facility, coordinate performance of Hot Work with Facility Manager through the Departmental Representative. When directed, perform Hot Work only during non-operative hours of Facility. Follow Departmental Representative's directives in this regard.

1.8 HOT WORK PROCEDURES

.1 Develop and implement safety procedures and work practices to be followed during the performance of Hot Work.

.2 Procedures to include:

.1 Requirement to perform hazard assessment of site and immediate hot work area for each hot work event in accordance with Hazard Assessment and Safety Plan requirements of Section 01 35 29.

.2 Use of a Hot Work Permit system for each hot work event.

.3 The step by step process of how to prepare and issue permit.

.4 Permit shall be issued by Contractor's site Superintendent, or other authorized person designated by Contractor, granting permission to worker or subcontractor to proceed with hot work.

.5 Provision of a designated person to carryout a Fire Safety Watch for a minimum of 60 minutes immediately upon completion of the hot work.

.6 Compliance with fire safety codes and standards specified herein and occupational health and safety regulations specified in Section 01 35 29.

.3 Generic procedures, if used, must be edited and supplemented with pertinent information tailored to reflect specific project conditions. Clearly label as being the Hot Work Procedures applicable to this contract.

.4 Hot Work Procedures shall clearly establish worker instructions and allocate responsibilities of:

- .1 Worker(s),
- .2 Authorized person issuing the Hot Work Permit,
- .3 Fire Safety Watcher,
- .4 Subcontractors and Contractor.

.5 Brief all workers and subcontractors on Hot Work Procedures and Permit system established for project. Stringently enforce compliance.

- .1 Failure to comply with the established procedures may result in the issuance of a Non-Compliance Notification at Departmental Representative's discretion with possible disciplinary measures imposed as specified in Section 01 35 28.

1.9 HOT WORK PERMIT

.1 Hot Work Permit to include, as a minimum, the following data:

- .1 Project name and project number.

- .2 Building name, address and specific room or area where hot work will be performed.
 - .3 Date when permit issued.
 - .4 Description of hot work type to be performed.
 - .5 Special precautions required, including type of fire extinguisher needed.
 - .6 Name and signature of person authorized to issue the permit.
 - .7 Name of worker (clearly printed) to which the permit is being issued.
 - .8 Time Duration that permit is valid (not to exceed 8 hours). Indicate start time and date, and completion time and date.
 - .9 Worker signature with date and time upon hot work termination.
 - .10 Specified time period requiring safety watch.
 - .11 Name and signature of designated Fire Safety Watcher, complete with time and date when safety watch terminated, certifying that surrounding area was under continual surveillance and inspection during the full watch time period specified in Permit and commenced immediately upon completion of Hot Work.
- .2 Permit to be typewritten form. Industry Standard forms shall only be used if all data specified above is included on form.
- .3 Each Hot Work Permit to be completed in full and signed as follows:
- .1 Authorized person issuing Permit before hot work commences.
 - .2 Worker upon completion of Hot Work.
 - .3 Fire Safety Watcher upon termination of safety watch.

.4 Returned to Contractor's Site Superintendent for safe keeping.

- 1.10 DOCUMENTS ON SITE .1 Keep Hot Work Permits and Hazard assessment documentation on site for duration of Work.
- .2 Upon request, make available to Departmental Representative or to authorized safety representative for inspection.

- 1.1 SECTION INCLUDES .1 Procedures to isolate and lockout electrical facility or other equipment from energy source.
- 1.2 RELATED WORK .1 Section 01 35 24 - Fire Safety Requirements.
- .2 Section 01 35 29 - Health and Safety Requirements.
- 1.3 REFERENCES .1 C22.1-18 - Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations.
- .2 CAN/CSA C22.3 No. 1-15 - Overhead Systems.
- .3 CAN/CSA C22.3 No. 7-15 - Underground Systems.
- .4 COSH, Canada Occupational Health and Safety Regulations made under Part II of the Canada Labour Code.
- 1.4 DEFINITIONS .1 Electrical Facility: means any system, equipment, device, apparatus, wiring, conductor, assembly or part thereof that is used for the generation, transformation, transmission, distribution, storage, control, measurement or utilization of electrical energy, and that has an amperage and voltage that is dangerous to persons.
- .2 Guarantee of Isolation: means a guarantee by a competent person in control or in charge that a particular facility or equipment is isolated.

- .3 De-energize: in the electrical sense, that a piece of equipment is isolated and grounded, e.g. if the equipment is not grounded, it cannot be considered de-energized (DEAD).
- .4 Guarded: means that an equipment or facility is covered, shielded, fenced, enclosed, inaccessible by location, or otherwise protected in a manner that, to the extent that is reasonably practicable, will prevent or reduce danger to any person who might touch or go near such item.
- .5 Isolate: means that an electrical facility, mechanical equipment or machinery is separated or disconnected from every source of electrical, mechanical, hydraulic, pneumatic or other kind of energy that is capable of making it dangerous.
- .6 Live/alive: means that an electrical facility produces, contains, stores or is electrically connected to a source of alternating or direct current of an amperage and voltage that is dangerous or contains any hydraulic, pneumatic or other kind of energy that is capable of making the facility dangerous to persons.

1.5 COMPLIANCE REQUIREMENTS

- .1 Perform lockouts in compliance with:
 - .1 Canadian Electrical Code.
 - .2 Federal and Provincial Occupational Health and Safety Acts and Regulations as specified in Section 01 35 29.
 - .3 Regulations and code of practice as applicable to mechanical equipment or other machinery being de-energized.

.4 Procedures specified herein.

.2 In event of conflict between any provisions of above authorities the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, Departmental Representative will advise on the course of action to be followed.

1.6 SUBMITTALS

.1 Submit copy of proposed Lockout Procedures and sample form of lockout permit and lockout tags for review.

.2 Submit documentation within 7 calendar days of acceptance of bid. Do not proceed with work until submittal has been reviewed by Departmental Representative.

.3 Submit above documents in accordance with the submittal requirements specified in Section 01 33 00.

.4 Resubmit Lockout Procedures with noted revisions as may result from Departmental Representative's review.

1.7 ISOLATION OF EXISTING SERVICES

.1 Obtain Departmental Representative's written authorization prior to conducting work on an existing active, energized service or facility required as part of the work and before proceeding with lockout of such services or facility.

.2 To obtain authorization, submit

- .1 Written Request for Isolation of the service or facility and;
 - .2 Copy of Contractor's Lockout Procedures.

- .3 Make a Request for Isolation for each event, unless directed otherwise by Departmental Representative, and as follows:
 - .1 Fill-out standard forms in Current use at the Facility when so directed by Departmental Representative or;
 - .2 Where no form exist at Facility, make request in writing identifying:
 - .1 Identification of system or equipment to be isolated, including it's location;
 - .2 Time duration, indicating Start time and date, and Completion time and date when isolation will be in effect;
 - .3 Voltage of service feed to system or equipment being isolated;
 - .4 Name of person making the request.
 - .3 Document to be in typewritten format.

- .4 Do not proceed until receipt of written notification from Departmental Representative granting the Isolation Request and authorization to proceed with the isolation of designated equipment or facility. Departmental Representative may designate other individual at the Facility as the person authorized to grant the Isolation Request.

- .5 Conduct safe, orderly shut down of equipment or facilities, de-energize and isolate power and other sources of energy and lockout items in accordance with requirement of clause 1.8 below.
- .6 Plan and schedule shut down of existing services in consultation with the Departmental Representative and the Facility Manager. Minimize impact and downtime of facility operations.
- .7 Determine in advance, as much as possible, in cooperation with the Departmental Representative, the type and frequency of situations which will require a Request for Isolation. Follow Departmental Representative's directives in this regard.
- .8 Conduct hazard assessment as part of the planning process of isolating existing equipment and facilities. Hazard Assessments to conform with requirements of Health and Safety Section 01 35 29.

1.8 LOCKOUTS

- .1 Isolate and lockout electrical facilities, mechanical equipment and machinery from all potential energy sources prior to starting work on such items.
- .2 Develop and implement lockout procedures to be followed on site as an integral part of the Work.
- .3 Use energy isolation lockout devices specifically designed and appropriate for type of facility or equipment being locked out.

- .4 Use industry standard lockout tags.
- .5 Provide appropriate safety grounding and guards as required.
- .6 Prepare Lockout Procedures in writing. Describe safe work practices, work functions and sequence of activities to be followed on site to safely isolate all potential energy sources and lockout/tagout facilities and equipment.
- .7 Include within procedures a system of worker request and issuance of individual lockout permit by a person, employed by Contractor, designated to be "in-charge" and being responsible for:
 - .1 Controlling issuance of permits or tags to workers.
 - .2 Determining permit duration.
 - .3 Maintaining record of permits and tags issued.
 - .4 Submitting a Request for Isolation to Departmental Representative when required in accordance with Clause 1.7 above.
 - .5 Designating a Safety Watcher, when one is required based on type of work.
 - .6 Ensuring equipment or facility has been properly isolated, providing a Guarantee of Isolation to worker(s) prior to proceeding with work.
 - .7 Collecting and safekeeping lockout tags, returned by workers, as a record of the event.
- .8 Clearly establish, describe and allocate, within procedures, the responsibilities of:
 - .1 Workers.
 - .2 Designated person controlling

issuance of lockout tags/permits.

.3 Safety Watcher.

.4 Subcontractors and General Contractor.

.9 Procedures shall meet the requirements of Codes and Regulations specified in clause 1.5 above.

.10 Generic procedures, if used, must be edited, supplemented with pertinent information and tailored to reflect specific project conditions. Clearly label as being the procedures applicable to this contract.

.1 Incorporate site specific rules and procedures established by Facility Manager and in force at site. Obtain such procedures through Departmental Representative.

.11 Procedures to be in typewritten format.

.12 Submit copy of Lockout Procedures to Departmental Representative, in accordance with submittal requirements of clause 1.6 herein, prior to commencement of work.

1.9 CONFORMANCE

.1 Ensure that lockout procedures, as established for project on site, are stringently followed. Enforce use and compliance by all workers.

.2 Brief all persons working on electrical facilities, mechanical and other equipment fed by an energy source on requirements of this section.

.3 Failure to perform lockouts in accordance with regulatory requirements or follow procedures

specified herein may result in the issuance of a Non-Compliance Notification at Departmental Representative's discretion with possible disciplinary measures imposed as specified in Section 01 35 29.

- 1.10 DOCUMENTS ON SITE
- .1 Post Lockout Procedures on site in common location for viewing by workers.
 - .2 Keep copies of Request for Isolation submitted to Departmental Representative and lockout permits or tags issued to workers during the course of work for full project duration.
 - .3 Upon request, make such data available to Departmental Representative or to authorized safety representative for inspection.

PART 1 - GENERAL

1.1 DEFINITIONS

- .1 COSH: Canada Occupational Health and Safety Regulations made under Part II of the Canada Labour Code.
- .2 Competent Person: means a person who is:
 - .1 Qualified by virtue of personal knowledge, training and experience to perform assigned work in a manner that will ensure the health and safety of persons in the workplace, and;
 - .2 Knowledgeable about the provisions of occupational health and safety statutes and regulations that apply to the Work and;
 - .3 Knowledgeable about potential or actual danger to health or safety associated with the Work.
- .3 Medical Aid Injury: any minor injury for which medical treatment was provided and the cost of which is covered by Workers' Compensation Board of the province in which the injury was incurred.
- .4 PPE: personal protective equipment
- .5 Work Site: where used in this section shall mean areas, located at the premises where Work is undertaken, used by Contractor to perform all of the activities associated with the performance of the Work.

1.2 SUBMITTALS

- .1 Submit one (1) copy of Site-Specific Hazard Assessment and Health and Safety Plan prior to commencement of Work.
 - .1 Departmental Representative will forward the Health and Safety documentation for review and comments.
 - .2 Revise the Plan as appropriate and resubmit as required.
 - .3 The review and comments made of the Plan shall not be construed as an endorsement, approval or implied warranty of any kind by Canada and does not reduce Contractor's overall
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1.2 SUBMITTALS (CONT'D)

responsibility for Occupational Health and Safety of the Work.

.4 Submit revisions and updates made to the Plan during the course of Work.

.2 Submit name of designated Health & Safety Site Representative and support documentation specified in the Safety Plan.

.3 Submit compliance certificates and other permits obtained.

.4 Submit copy of Clearance Letter from Workplace NL, Assessment Services Department.

.1 Submit update of Letter of Good Standing whenever expiration date occurs during the period of Work.

.5 Submit copies of reports or directions issued by Federal and/or Provincial health and safety inspectors.

.6 Submit copies of incident and accident reports.

.7 Submit WHMIS MSDS - Material Safety Data Sheets.

1.3 COMPLIANCE
REQUIREMENTS

.1 Comply with Occupational Health and Safety Act for the Province of Newfoundland and Labrador, and Occupational Health & Safety Regulations made pursuant to the Act.

.2 Comply with Canada Labour Code - Part II (entitled Occupational Health and Safety) and the Canada Occupational Health and Safety Regulations (COSH) as well as any other regulations made pursuant to the Act.

.1 The Canada Labour Code can be viewed at:

<http://laws-lois.justice.gc.ca/eng/acts/L-2/>

.2 COSH can be viewed at:

<http://laws.justice.gc.ca/eng/regulations/sor-86-304/index.html>

.3 A copy may be obtained at: Canadian Government Publishing Public Works & Government Services Canada Ottawa, Ontario, K1A 0S9 Tel: (819) 956-4800

- 1.3 COMPLIANCE .3 Observe construction safety measures of:
REQUIREMENTS (CONT'D) .1 Part 8 of National Building Code
.2 Municipal by-laws and ordinances.
- .4 In case of conflict or discrepancy between above specified requirements, the more stringent shall apply.
- .5 Maintain Workers Compensation Coverage in good standing for duration of Contract.
- 1.4 RESPONSIBILITY .1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons and environment adjacent to the site to the extent that they may be affected by conduct of Work.
- .2 Comply with and enforce compliance by all workers, sub-contractors and other persons granted access to Work Site with safety requirements of Contract Documents, applicable federal, provincial and local by-laws, regulations, and ordinances and with site-specific Health and Safety Plan.
- 1.5 SITE CONTROL AND ACCESS .1 Control the Work and entry points to Work Site. Approve and grant access only to workers and authorized persons. Immediately stop direct non-authorized persons from the Work Site.
- .1 Departmental Representative will provide names of those persons authorized by Departmental Representative to enter onto Work Site and will ensure that such authorized persons have the required knowledge and training on Health and Safety pertinent to their reason for being at the site. The Contractor, however, remains responsible for the health and safety of authorized persons while at the Work Site.
- .2 Provide safety orientation session to persons granted access to Work Site. Advise
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- 1.5 SITE CONTROL AND ACCESS (CONT'D) if hazards and safety rules to be observed while on site.
- .3 Ensure persons granted site access wear appropriate PPE. Supply PPE to inspection authorities who require access to conduct tests or perform inspections.
 - .4 Secure Work Site against entry when inactive or unoccupied and to protect persons against harm. Provide security guard where adequate protection cannot be achieved by other means.
- 1.6 PROTECTION
- .1 Give precedence to safety and health of persons and protection of environment over cost and schedule considerations for Work.
 - .2 Should unforeseen or peculiar safety related hazard or condition become evident during performance of Work, immediately take measures to rectify the situation and prevent damage or harm. Advise Departmental Representative verbally immediately and in writing within twenty-four (24) hours.
- 1.7 PERMITS
- .1 Maintain with individual Project Superintendent all required permits, licenses and compliance certificates.
 - .2 Where particular permit or compliance certificate cannot be obtained, notify Departmental Representative in writing and obtain approval to proceed before carrying out applicable portion of Work.
- 1.8 FILING OF NOTICE
- .1 File notice of Project with pertinent Provincial Health and Safety authorities prior to beginning of work:
 - .1 Departmental Representative will assist in locating address if required.
- 1.9 HAZARD ASSESSMENTS
- .1 Perform site specific health and safety hazard assessment of the Work and it site.
 - .2 Carry out initial hazard assessments prior to commencement of Work with further
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- 1.9 HAZARD ASSESSMENTS (CONT'D) assessments as needed during progress of work, including when new trades and subcontractors arrive on site.
- .3 Record results and address in Health and Safety Plan.
 - .4 Keep documentation with individual Project Superintendent for entire duration of the Work.
- 1.10 PROJECT/SITE CONDITIONS
- .1 The following are potential health and safety hazards at the site:
 - .1 Working in close proximity to water and overhead Power/ Utility lines.
 - .2 Use of water crafts
 - .3 Wet and slippery conditions
 - .4 Weather conditions and exposure risk
 - .5 Potential instability of soils or structures
 - .6 Working with or near heavy equipment
 - .7 Heavy lifting
 - .8 Cutting tools and other power tools
 - .9 Welding equipment
 - .10 Vehicular and pedestrian traffic
 - .11 Working in poor lighting conditions
 - .12 Slip, trip and fall
 - .2 The above items shall not be construed as being complete and inclusive of potential health and safety hazards encountered during Work.
 - .3 Include above items in the hazard assessment of the Work.
 - .4 MSDS Data sheets of pertinent hazardous and controlled products stored on site can be obtained from Departmental Representative.
- 1.11 MEETINGS
- .1 Conduct pre-construction health and safety meeting. Ensure attendance of:
 - .1 Superintendent of Work
 - .2 Designated Health & Safety Site Representative
 - .3 Appropriate workers
 - .4 Departmental Representative
 - .2 Conduct regularly scheduled tool box and safety meetings as required during the Work
-

- 1.11 MEETINGS (CONT'D) in conformance with Occupational Health and Safety regulations.
- .3 Keep documents with individual Project Superintendent.
- 1.12 HEALTH AND SAFETY PLAN
- .1 Prior to commencement of Work, develop written Health and Safety Plan specific to the Work. Implement, maintain, and enforce Plan for entire duration of Work and until final demobilization from site.
- .2 Health and Safety Plan shall include the following components:
- .1 List of health risks and safety hazards identified by hazard assessment.
- .2 Control measures used to mitigate risks and hazards identified.
- .3 On-site Contingency and Emergency Response Plan as specified below.
- .4 On-site Communication Plan as specified below.
- .5 Name of Contractor's designated Health & Safety Site Representative and information showing proof of his/her competence and reporting relationship in Contractor's company.
- .6 Names, competence and reporting relationship of other supervisory personnel used in the Work for occupational health and safety purposes.
- .3 On-site Contingency and Emergency Response Plan shall include:
- .1 Operational procedures, evacuation measures and communication process to be implemented in the event of an emergency.
- .2 Name, duties and responsibilities of persons designated as Emergency Warden(s) and deputies.
- .3 Emergency Contacts: name and telephone number of officials from:
- .1 General Contractor
- .2 Federal and Provincial Departments and authorities having jurisdiction.
-

1.12 HEALTH AND
SAFETY PLAN (CONT'D)

.3 Local emergency resource
organizations.

- .4 On-site Communication Plan:
 - .1 Procedures for sharing of work related safety information to workers including emergency and evacuation measures.
 - .2 List of critical work activities to be communicated with Facility users which have a risk of endangering health and safety of Facility users.
- .5 Address all activities of the Work.
- .6 Review Health and Safety Plan regularly during the Work. Update as conditions warrant to address emerging risks and hazards.
- .7 Departmental Representative will respond in writing, where deficiencies or concerns are noted and may request re-submission of the Plan with correction of deficiencies or concerns.
- .8 Maintain a copy of the Plan, and updates with the individual Project Superintendent.

1.13 SAFETY
SUPERVISION

- .1 Employ Health & Safety Site Representative responsible for daily supervision of health and safety of the Work.
 - .2 Health & Safety Site Representative may be the Superintendent of the Work or other person designated by Contractor and shall be assigned the responsibility and authority to:
 - .1 Implement, monitor and enforce daily compliance with health and safety requirements of the Work.
 - .2 Monitor and enforce Contractor's Site-Specific Health and Safety Plan.
 - .3 Conduct site safety orientation session to persons granted access to Work Site.
 - .4 Ensure that persons allowed site access are knowledgeable and trained in health and safety pertinent to
-

- 1.13 SAFETY SUPERVISION (CONT'D)
- .5 their activities at the site or are escorted by a competent person while on the Work Site.
 - .5 Stop the Work as deemed necessary for reasons of health and safety.
 - .3 Health & Safety Site Representative must:
 - .1 Be qualified and competent person in occupational health and safety.
 - .2 Have site-related working experience specific to activities of the Work.
 - .3 Be on Work Site at all times during execution of the Work.
 - .4 All supervisory personnel assigned to the Work shall also be competent persons.
 - .5 Inspections:
 - .1 Conduct regularly scheduled safety inspections of the Work on a minimum bi-weekly basis. Records deficiencies and remedial action taken.
- 1.14 TRAINING
- .1 Use only skilled worked on Work Site who are effectively trained in occupational health and safety procedures and practices pertinent to their assigned task.
 - .2 Maintain employee records and evidence of training received. Make data available to Departmental Representative upon request.
 - .3 When unforeseen or peculiar safety-related hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and in writing.
- 1.15 MINIMUM SITE SAFETY RULES
- .1 Notwithstanding requirement to abide by federal and provincial health and safety regulations; ensure the following minimum safety rules are obeyed by persons granted access to Work Site:
 - .1 Wear appropriate PPE pertinent to the Work or assigned task; minimum being hard hat, safety footwear, safety
-

- glasses, hearing protection and reflective safety vest.
- .2 Immediately report unsafe condition at site, near-miss accident, injury and damage.
 - .3 Maintain site and storage areas in a tidy condition free of hazards causing injury.
 - .4 Obey warning signs and safety tags.
- .2 Brief persons of disciplinary protocols to be taken for non-compliance. Post rules on site.
- 1.16 CORRECTION OF NON-COMPLIANCE
- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
 - .2 Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
 - .3 Departmental Representative will stop Work if non-compliance of health and safety regulations is not corrected in a timely manner.
- 1.17 INCIDENT REPORTING
- .1 Investigate and report the following incidents to Departmental Representative:
 - .1 Incidents requiring notification to the Occupational Health and Safety Branch of the Government of Newfoundland and Labrador, Workplace NL or to other regulatory agencies.
 - .2 Medical aid injuries
 - .3 Property damage in excess of \$10,000.00
 - .4 Interruptions to Facility operations resulting in an operational lost to a
- 1.17 INCIDENT REPORTING (CONT'D)
- Federal department in excess of \$5,000.00.
 - .2 Submit report in writing.
- 1.18 HAZARDOUS
- .1 Comply with requirements of Workplace

- PRODUCTS Hazardous Materials Information System (WHMIS).
- .2 Keep MSDS data sheets for all products delivered to site.
 - .1 Post on site.
 - .2 Submit copy to Departmental Representative.
- 1.19 BLASTING .1 Blasting or other use of explosives is not permitted on site.
- 1.20 SITE RECORDS .1 Maintain with individual Project Superintendent a copy of safety related documentation and reports stipulated to be produced in compliance with Acts and Regulations of authorities having jurisdiction and of those documents specified herein.
- .2 Upon request, make available to Departmental Representative or authorized Safety Officer for inspection.
- 1.21 NOTIFICATION OF DOCUMENTS .1 Ensure all workers on site are notified of all applicable items, articles, notices and orders. Make this documentation available for review in accordance with Provincial Acts and Regulations.
- .2 Ensure the following are also available for review:
 - .1 Site Specific Health and Safety Plan
 - .2 WHMIS data sheets
- 1.21 MEASUREMENT FOR PAYMENT .1 No measurement for payment shall be made for items under this section. All costs associated with this specification section will be considered incidental to the Standing Offer.

- 1.1 GENERAL .1 This section outlines the requirements for the environmental protection associated with the work.
- 1.2 DEFINITIONS .1 Hazardous Material: Product, substance, or organism that is used for its original purpose; and that is either dangerous goods or a material that may cause adverse impact to the environment or adversely affect health of persons, animals, or plant life when released into the environment.
- 1.3 FIRES .1 Fires and burning of rubbish on site not permitted.
- 1.4 DISPOSAL OF WASTES AND HAZARDOUS MATERIALS
- .1 Do not bury rubbish and waste materials on site. Dispose at approved landfill sites
- .2 Do not dispose of hazardous waste or volatile materials, such as mineral spirits, paints, thinners, oil or fuel into waterways, storm or sanitary sewers or waste landfill sites.
- .3 Store, handle and dispose of hazardous materials and hazardous waste in accordance with applicable federal and provincial laws, regulations, codes and guidelines.
- .4 Dispose of waste materials and debris, resulting from work, at approved landfill sites only. Carryout such disposal in strict accordance with provincial and municipal rules and regulations. Separate out and prevent improper disposal of items banned from landfills.
- .5 Establish methods and undertake construction practices which will minimize waste. Separate at source all debris into various waste categories if appropriate and as directed by the Departmental Representative.
- .6 Communicate with landfill operator prior to commencement of work, to determine what specific dredge spoils or waste materials have been banned from disposal at the landfill and at transfer stations.
- 1.5 DRAINAGE .1 Provide temporary drainage and pumping as necessary to keep site free from water.
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- .2 Do not allow water containing suspended materials into waterways, sewer or drainage systems.
- .3 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with governing regulations and requirements.
- .4 Run-off water must meet applicable federal, provincial, and municipal standards before it can be discharged to a surface water body. If regulatory guidelines exceedances are noted, the Departmental Representative has the right to issue stop pumping instruction to the Contractor.
- .5 Provide control devices such as filter fabrics, sediment traps and settling ponds to control drainage and prevent erosion of adjacent lands, if required. Maintain in good order for duration of work.
- .6 Dredge spoils to be stockpiled on-site for a minimum twenty-four (24) hour period prior to transportation to disposal site.

1.6 PERMITS

- .1 All guidelines and instruction stated on permits must be strictly adhered to.

1.7 WORK ADJACENT TO WATERWAYS

- .1 Do not operate construction equipment in waterways.
 - .2 Do not use waterway beds for borrow material.
 - .3 Do not dump excavated fill, waste material or debris in waterways.
 - .4 At borrow sites, design and construct temporary crossings to minimize erosion to waterways in strict conformance with provincial and federal environmental regulations.
 - .5 Do not skid logs or construction materials across waterways.
 - .6 Avoid indicated spawning beds when constructing temporary crossings of waterways.
 - .7 No blasting permitted unless authorized by the
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1.7 WORK ADJACENT

TO WATERWAYS (CONT'D)

Departmental Representative.

- .8 Do not refuel any type of equipment within thirty (30) meters of a water body. Maintain equipment in good working condition with no fluid leaks, loose hoses or fittings.
- .9 Dredging in scheduled salmon rivers - dredging should be completed outside the spawn/smolt migration period. In the event that salmon or smolt are observed during dredging operations, dredging should be halted immediately and the Departmental Representative contacted.

1.8 POLLUTION CONTROL

- .1 Install and maintain temporary erosion and pollution control features if required.
 - .2 Control emissions from equipment and plant to local authorities' emission requirements.
 - .3 Prevent sandblasting and other extraneous materials from contaminating air beyond application area, by providing temporary enclosures.
 - .4 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads and around entire construction site if required.
 - .5 Maintain inventory of hazardous materials and hazardous waste stored on site. List items by product name, quantity and date when storage began.
 - .6 Have emergency spill response equipment and rapid clean-up kit, appropriate to work, at site. Locate adjacent to work and where hazardous materials are stored. Provide personal protective equipment as required for clean-up. The equipment must be onsite for the entire duration of the work under each Call-Up.
 - .7 Immediately report to Federal and Provincial Departments of the Environment, spills of petroleum and other hazardous materials as well as accidents having potential of polluting the environment. Also immediately notify Departmental Representative and submit a written spill report to Departmental
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1.8 POLLUTION
CONTROL (CONT'D) Representative within twenty-four (24) hours of occurrence.

1.9 MEASUREMENT
FOR PAYMENT .1 No measurement for payment shall be made for items under this section. All costs associated with this specification section will be considered incidental to the Standing Offer.

PART 1 - GENERAL

1.1 DESCRIPTION

- .1 The sites of the work described in this specification are to be any of the various sites within the boundaries indicated in the General Instructions. The work consists of excavating of underwater materials as indicated by the Departmental Representative. It also includes the transportation and disposal of excavated materials to environmentally approved locations if required.

1.2 DEFINITIONS

- .1 Dredging: excavating, transporting and disposing of underwater materials.
- .2 Class A material: solid rock requiring drilling and blasting to loosen, and boulders or rock fragments of individual volumes 1.5 m³ or more.
- .3 Class B material: loose or shale rock, silt, sand, quick sand, mud, shingle, gravel, clay, gumbo, boulders, hardpan and debris of individual volumes less than 1.5 m³.
- .4 Sub-grade: Plane parallel to and 300 mm below grade.
- .5 Mobilization: Distance measured by kilometer from home base to dredge site, or from dredge site to dredge site.
- .6 Demobilization: Distance measured by kilometer from dredge site to home base or from dredge site to dredge site.
- .7 Debris: pieces of wood, wire rope, scrap steel, pieces of concrete and other waste materials.
- .8 Grade: plane above which material is to be dredged.
- .9 Side slope: inclined surface or place from subgrade at side limit of dredging area to intersect original ground line outside of side limit and to be expressed as ratio of limit if dredging area to intersect original ground line outside of side limit and to be expressed as a ratio of horizontal to vertical.
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- 1.2 DEFINITIONS (CONT'D)
- .10 Chart Datum: permanently established plane from which soundings or tide heights are referenced, usually Lowest Normal Tide (LNT).
 - .11 Coordinates:
 - .1 U.T.M.: Universal Transverse Mercator projection
 - .2 M.T.M.: Modified Transverse Mercator projection
 - .3 U.T.M or M.T.M Coordinates: plane rectangular coordinates used in grid system in which grid network is applied to U.T.M. or M.T.M. projection. Horizontal control information as indicated.
 - .12 Obstructions: material other than Class "A" having individual volumes of 1.5 m³ or "deteriorated concrete or wooden wharfs".
 - .13 Lowest Normal Tide (LNT): plane so low that tide will seldom fall below it.
 - .14 Cleared Area: area of dredging accepted as complying with the Call-Up.
- 1.3 REGULATORY REQUIREMENTS
- .1 Comply with municipal, provincial, and national codes and regulations relating to Call-Up.
 - .2 Mark floating equipment with lights in accordance with the provisions of the Canada Shipping Act Collision Regulations and Notices to Mariners.
- 1.4 WASTE MANAGEMENT AND DISPOSAL
- .1 Perform work, in accordance with municipal, provincial and or national codes and regulations, Dredge spoils are to be disposed of in accordance with applicable legislation and at the approval of the Departmental Representative. In any case of conflict or discrepancy, the more stringent requirement will apply. Disposal of dredge spoils other than at the approved disposal site is expressly forbidden.
 - .2 Metals, wood and recyclable materials removed during the dredging activities must be diverted to appropriate recycling or waste facilities.
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- 1.5 SCHEDULING .1 Contractor is to provide the Departmental Representative with at least twenty-four (24) hours of notice before finishing up the dredging project to enable the Departmental Representative to schedule additional sites.
- 1.6 LOCATION .1 Work comprises dredging of areas as indicated on the Call-Ups provided by the Departmental Representative.
- 1.7 ACCESS .1 Should access to the dredge site require crossing private property, the Contractor will obtain written permission from property owner(s) prior to crossing. Submit a copy to the Departmental Representative when obtained.
- 1.8 PROTECTION .1 Provide protection to ensure no damage occurs to existing facilities and equipment situated on site. In the event of such damage immediately replace or repair at the Contractor's expense.
- .2 Do not stockpile excavated material to interfere with site operation or drainage.
- 1.9 SITE INFORMATION .1 Results of prior soundings and geotechnical investigations may be made available for viewing purposes only. It should be noted that this information may differ from current site conditions.
- .2 Take necessary steps to become fully familiar with potential inclement weather and sea conditions at each site.
- 1.10 MEASUREMENT FOR PAYMENT .1 Mobilization and Demobilization (Dredging Equipment): The mobilization and demobilization of specified dredging equipment will be paid by the kilometer for the one-way distance from home base to dredge site, from dredge site to dredge site and from dredge site to home base, as applicable and as authorized by the Departmental Representative, for each piece of dredging equipment used.
- .2 Mobilization and Demobilization (Tandem Dump Truck-Contractor Owned): The mobilization and demobilization of specified tandem dump trucks will be paid by the kilometer for the one-way distance from home base to dredge site, from
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1.10 MEASUREMENT
FOR PAYMENT (CONT`D)

dredge site to dredge site and from dredge site to home base, as applicable and as authorized by the Departmental Representative, for each tandem used.

- .3 Miscellaneous Travel Allowance: Occasionally travel is required from the Island of Newfoundland to mainland Labrador and return OR from the Island of Newfoundland to the smaller surrounding islands and return. The provision of miscellaneous travel required to move equipment and personnel to and from any of these sites will be paid according to the actual invoiced cost, including only appropriate taxes, as pre-approved by the Departmental Representative. All costs will be supported by adequate documentation. There will be an Overhead and Profit Allowance for the provision of miscellaneous travel. The Contractor's Overhead and Profit Factor will be entered in the space provided on the Unit Price Table when bidding this item. The Overhead and Profit Factor will then be multiplied by the Miscellaneous Travel Principal to determine the Miscellaneous Travel Allowance.
- .4 There will be no payment made for mobilizing or demobilizing tandem dump trucks which are owned locally by other than the Contractor. This will be considered incidental to the unit price for each tandem used.
- .5 Corner Brook, Newfoundland and Labrador will be considered home base for the purpose of mobilization and demobilization.
- .6 Upon completion of dredging in one location, should another location be identified for dredging, mobilization will be paid from site to site. However, should there be a time lapse of forty-eight (48) hours between identification of jobs and the Contractor's equipment has been moved off site, mobilization and demobilization will be paid by the kilometer from home base to job location and return.
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1.10 MEASUREMENT .7
FOR PAYMENT (CONT`D)

Dredging: Payment for all equipment will be made at the hourly operating rate for actual item worked by each piece of equipment involved in the dredging operation as authorized by the Departmental Representative. Hourly operating rates will include operator, all consumables, maintenance and repairs. Dredging equipment will include:

- .1 Excavator - 8.0 meter reach
- .2 Excavator - 10.5 meter reach
- .3 Excavator - 16.0 meter reach
- .4 Front End Loader
- .5 Off-Highway Dump Truck
- .6 On-Highway Tandem Dump Truck
- .7 Tracked Carrier

.8 Miscellaneous Equipment Allowance (Contractor Owned): Specialized miscellaneous equipment or tools owned by the Contractor and used on the project will be paid at the fair and reasonable industry rate as pre-approved by the Departmental Representative. There will be no Overhead and Profit Allowance for equipment owned by the Contractor.

.9 Miscellaneous Equipment Allowance (Rental): Specialized miscellaneous equipment or tools specifically rented by the Contractor for the project will be paid at the fair and reasonable industry rate as pre-approved by the Departmental Representative. There will be an Overhead and Profit Allowance for the rental of equipment for the project. The Contractor's Overhead and Profit Factor will be entered in the space provided in the Unit Price Table when bidding this item. The Overhead and Profit Factor will then be multiplied by the Miscellaneous Equipment Principal (Rental) to determine the Miscellaneous Equipment Allowance (Rental). The Contractor must make every effort to obtain the best price available for any specified rental equipment.

.10 Miscellaneous Materials Allowance: The supply of any miscellaneous material will be paid at the fair and reasonable industry rate according to the actual invoiced cost, including only appropriate taxes, as pre-approved by the Departmental Representative. All costs will be supported by adequate documentation. There will

1.10 MEASUREMENT
FOR PAYMENT (CONT`D)

be an Overhead and Profit Allowance for the supply of material. The Contractor's Overhead and Profit Factor will be entered in the space provided in the Unit Price Table when bidding this item. The Overhead and Profit Factor will then be multiplied by the Miscellaneous Material Principal to determine the Miscellaneous Materials Allowance. The Contractor must make every effort to obtain the best price available for any specified material.

- .11 Miscellaneous Disposal Allowance: All dumping fees will be paid to the Contractor at cost upon submission of receipt of payment from the authority having jurisdiction. This also includes any payment made for disposal of contaminated dredged materials at a confined disposal facility or appropriate contaminated soil disposal facility, as approved by the Departmental Representative. There will be an Overhead and Profit Allowance which will be entered in the space provided in the Unit Price Table when bidding this item. The Overhead and Profit Factor will then be multiplied by the Miscellaneous Disposal Principal to determine the Miscellaneous Disposal Allowance.
 - .12 No payment will be made for down-time due to stand-by, mechanical problems, maintenance, breaks, meals, travel or for otherwise idle equipment unless authorized by the Departmental Representative.
 - .13 There will be no additional payment for delays incurred during fishing seasons or during periods when no dredging is permitted.
 - .14 There will be no additional payment for downtime and for delays caused by vessel traffic.
 - .15 No payment will be made for meals and accommodation which are to be considered incidental to the unit price in which the work is carried out.
 - .16 If the survey demonstrates that the Contractor has left areas above the specified grade depth, the Contractor will return to site at the
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- 1.10 MEASUREMENT
FOR PAYMENT (CONT`D)
- Contractor`s expense. No additional payment for mobilization/demobilization will be made for this item.
- .17 No payment will be made for the Call-Up if the Contractor has to stop operations because of the failure to comply with any of the dredging procedures and operations.
- .18 To avoid any dispute at completion of the project, the Contractor and the Departmental Representative will sign a statement provided by the Departmental Representative at the end of each day outlining the number of operating hours for each piece of equipment involved in the dredging operation.

PART 2 - PRODUCTS

- 2.1 DREDGING
EQUIPMENT
- .1 Equipment required to carry out dredging on this project will consist of the following:
- .1 A hydraulic backhoe/excavator with a minimum 8.0 meter horizontal reach at ground level, a minimum 1.0 cubic meter bucket and a minimum mass of 20 tonnes.
 - .2 A hydraulic backhoe/excavator with a minimum of 10.5 meter horizontal reach, a minimum 1.5 cubic meter bucket and a minimum mass of 27 tonnes.
 - .3 A hydraulic backhoe/excavator with a minimum of 16 meter horizontal reach, minimum of a 1.0 cubic meter bucket and a minimum mass of 35 tonnes.
 - .4 A front end loader equipped with a minimum 2.5 cubic meter capacity bucket.
 - .5 Off-highway dump trucks with a minimum heaped capacity of 16.5 cubic meters and a minimum payload of 30 tonnes and a minimum Mass of 21.5 tonnes.
 - .6 Sufficient on-highway tandem dump trucks to provide continuous operation as determined by the Departmental Representative. Truck boxes will be a minimum capacity of 8 cubic meters. Truck boxes to be watertight and tailgates to be double secured with chain. No dredging operations will be carried out if trucks are leaking water or material during transportation.
 - .7 Tracked carrier with a 360 degree rotation capability, minimum heaped capacity of 6.4

2.1 DREDGING
EQUIPMENT (CON'T)

cubic meters, minimum payload of 11 tonnes, ability to dump at any position in the cab's 360 swing, and a minimum unloaded mass of 17.9 tonnes.

- .8 Equipment Float(s) having a minimum capacity to transport all equipment as described above.
- .2 The Contractor must have sufficient equipment available to carry out dredging at two (2) sites simultaneously if required by the Departmental Representative.

PART 3 - EXECUTION

3.1 GENERAL

- .1 Place and maintain buoys, markers and lights as required to define the work areas.
 - .2 Lay out work from bench marks, ranges and baselines established by Departmental Representative. Be responsible for accuracy of Work relative to established bench marks, ranges and baseline. Provide and maintain such equipment as normally required for accurate dredging control.
 - .3 Establish and maintain tide boards in order that proper depth of dredging can be determined if required. Locate tide boards so as to be clearly visible. Removal of tide board on completion of work.
 - .4 Establish and maintain on-land targets for location and definition of designated dredge area limits if required. Targets to be suitable for control of dredging operations and locating soundings. Remove targets on completion of Work.
 - .5 Dredge area and grade depth to the limits indicated on each Call-Up or as directed by the Departmental Representative.
 - .6 Remove material cast-over on surrounding area and dispose of it as dredged material. Do not cast-over material unless authorized by Departmental Representative.
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- .7 Remove infilling in dredge area which occurs prior to acceptance by Departmental Representative.
- .8 Immediately notify Departmental Representative upon encountering any objects which might be classified as an obstruction. By-pass the object after clearly marking its locations and continue work, while awaiting direction.
- .9 The Contractor will be required to return to the site if the dredge area is not completed as indicated on the Call-Up or as directed by the Departmental Representative. Payment will only be made for operating hours. Mobilization and demobilization required to return to site and access to the actual location of incomplete work (access roads, etc.) will be at Contractor's expense.

3.2 DISPOSAL OF DREDGED MATERIAL

- .1 Dredge material will be disposed of, on land, and placed in dumping areas authorized by this Department and by the appropriate Provincial authority.
- .2 All disposal areas will be left in a neat and tidy condition with the material graded and spread evenly as directed by the Departmental Representative.
- .3 All materials spilled or deposited on private or public roads or properties as a result of trucking the material to the dump site will be removed at the Contractor's expense to the satisfaction of the Departmental Representative and the owners involved.

3.3 DREDGING IN VICINITY OF STRUCTURES

- .1 Do not dredge material from areas lying within two thousand (2,000) millimeters of existing structure unless authorized by Departmental Representative, in writing, with an appropriate sketch or drawing.
- .2 Any damage to these structures is to be repaired at the Contractor's expense.

Appendix 1 – ADDITIONAL DOCUMENTATION

Public Services and Procurement Canada

Project: RISO Minor Dredging, Western NL & Southern Labrador

Additional Mitigations associated with DFO SCH minor dredging

- Plan in water works, undertakings or activities to respect [timing windows](#) to protect fish including their eggs, juveniles, spawning adults and/or the organisms upon which they feed and migrate
- Conduct in-water work, undertaking and activity during periods of low flow
- Limit the duration of in-water work, undertaking and activity so that it does not diminish the ability of fish to carry out one or more of their life processes (e.g. spawning, rearing, feeding, migrating)
- Limit impacts of fish habitat components to those approved for the work, undertaking or activity
- Limit the amount of dredged material removed for depth require for navigation
- For water-based operations, avoid placing vertical spuds or other anchors into sensitive fish habitat areas outside the footprint of the dredge area (e.g. eelgrass or kelp beds, saltmarshes, shellfish harvesting areas and known spawning areas)
- Limit access to banks or areas adjacent to waterbodies
- Prune or top the vegetation instead of grubbing/uprooting
- Limit grubbing on watercourse banks to the area required for the footprint of work, undertaking or activity
- Construct access points and approaches perpendicular to the watercourse or waterbody
- Remove vegetation or species selectively and in phases
- Re-vegetate the disturbed areas with native species suitable for the site
- Salvage, reinstate or match habitat structure (e.g., large wood debris, boulders, instream aquatic vegetation/substrate) to its initial state
- Restore stream geomorphology (i.e., restore the bed and banks, gradient and contour of the waterbody) to its initial state
- Replace/restore any other disturbed habitat features and remediate any areas impacted by the work, undertaking or activity
- Operate machinery on land in stable dry areas, or from barges or on ice
- Use methods to prevent substrate compaction (e.g., swamp mats, pads)
- Where applicable, put in place site isolation measures (e.g., silt boom or silt curtain) to contain suspended sediment generated by dredging activities.
- Schedule work to avoid wet, windy and rainy periods (and heed weather advisories)
- Inspect and regularly maintain erosion and sediment control measures and structures during all phases of the project
- Use biodegradable erosion and sediment control materials whenever possible
- Remove all exposed non-biodegradable erosion and sediment control materials once site is stabilized.
- Monitor the watercourse to observe signs of sedimentation during all phases of the work, undertaking or activity and take corrective action
- Stop work, contain sediment-laden water or other deleterious substances and prevent their further migration into the watercourse
- Report any spills of sewage, oil, fuel or other deleterious material, whether near or directly into a water body
- Maintain all machinery on site in a clean condition and free of fluid leaks to prevent any deleterious substances from entering the water
- Wash, refuel and service machinery and store fuel and other materials for the machinery in such a way as to prevent any deleterious substances from entering the water



Suite 204, 1 Regent Square
Corner Brook, NL
A2H 7K6

February 5, 2020

William French
DFO Small Craft Harbours
1 Regent Square
Corner Brook, NL, A2H 7K6

RE: 2020/2021 DFO SCH Western Area Minor Dredging Program

Based on the most up-to-date interpretation of the Impact Assessment Act (IAA), dredging and beach grading activities for navigational/access purposes is not currently defined as a “*project*” and thus does not require a determination of environmental significance under the Act. However, an environmental review is still required to ensure SCH are compliant with other applicable federal and provincial environmental legislation and regulations.

The following projects proposed under the 2020/2021 DFO SCH Western Area Minor Dredging Program have been assessed pursuant to applicable federal/provincial legislation/regulations:

Project No.	Location	Description
MD-W-2020-001	Abrahams Cove	Beach grading (50 m3)
MD-W-2020-002	Bakers Brook	Basin dredging (200 m3)
MD-W-2020-003	Bank Head Cove	Basin re-dredging (300 m3)
MD-W-2020-004	Barr'd Harbour	Basin re-dredging (500 m3)
MD-W-2020-005	Black Duck Brook	Access re-dredging (1000 m3)
MD-W-2020-006	Browns Cove (Heatherton)	Beach grading (200 m3)
MD-W-2020-007	Campbells Creek (Felix Cove)	Access re-dredging (50 m3)
MD-W-2020-008	Cape St. George	Basin and channel re-dredging (2000 m3)
MD-W-2020-009	Capstan Island	Basin re-dredging
MD-W-2020-010	Eddies Cove West	Basin re-dredging (500 m3)
MD-W-2020-011	Fischells	Channel re-dredging (1500 m3)
MD-W-2020-012	Forteau	Basin re-dredging (700 m3)
MD-W-2020-013	Fox Island River	Channel re-dredging (2000 m3)
MD-W-2020-014	Frenchmans Cove	Basin re-dredging (800 m3)
MD-W-2020-015	Gravels	Beach grading (50 m3)
MD-W-2020-016	Highlands (Harbour Beach)	Beach grading (200 m3)



MD-W-2020-017	Josephines Cove	Channel re-dredging (300 m3)
MD-W-2020-018	L'Anse au Clair	Basin re-dredging (1500 m3)
MD-W-2020-019	Lark Harbour	Basin dredging (1000 m3)
MD-W-2020-020	Lourdes	Beach grading (200 m3)
MD-W-2020-021	Mainland	Beach grading (300 m3)
MD-W-2020-022	Martins Point	Channel re-dredging (200 m3)
MD-W-2020-023	Parsons Pond	Channel re-dredging (1500 m3)
MD-W-2020-024	Portland Creek	Channel re-dredging (1000 m3)
MD-W-2020-025	Picadilly (Lower Cove)	Beach grading (150 m3)
MD-W-2020-026	River of Ponds	Channel re-dredging (1000 m3)
MD-W-2020-027	Sally's Cove	Access re-dredging (200 m3)
MD-W-2020-028	Sheaves Cove	Beach grading (50 m3)
MD-W-2020-029	Ship Cove	Beach grading (50 m3)
MD-W-2020-030	St. Davids (Crabbes River)	Channel re-dredging (2000 m3)
MD-W-2020-031	Three Mile Rock	Channel re-dredging (150 m3)
MD-W-2020-032	Three Rock Cove	Beach grading (150 m3)
MD-W-2020-033	Spirity Cove	Basin re-dredging (1000 m3)
MD-W-2020-034	Green Point	Basin dredging
MD-W-2020-035	Old House Rocks	Basin re-dredging

Applicable regulatory requirements for abovenoted 2020/2021 dredging projects

1) Impact Assessment Act

Dredging and beach grading for navigational purposes is not currently defined as a Project under the Impact Assessment Act. However, pursuant to internal DFO SCH policy, all proposed dredging activities have been subjected to an environmental review. **This letter is to be considered proof of that review. No further documentation regarding the applicability of the IAA is required for the abovenoted projects.** Individual memos will be provided separately for any dredging projects not included in the abovenoted list.

2) Fisheries Act

Formal review by Fisheries and Oceans Canada, Fish and Fish Habitat Protection Program is not required for re-dredging operations that meet the conditions and mitigations included in the Interim Code of Practice for Routine Maintenance Dredging (<http://www.dfo-mpo.gc.ca/pnw-ppe/codes/dredge-drageur-eng.html>). As part of the DFO Code of Practice, a Notification Form should be sent to DFO preferably 10-working days prior to the commencement of dredging activities. A copy of this Notification Form is appended to this letter.



For proposed re-dredging projects that occur within scheduled Atlantic salmon rivers, notably Fischells River, Fox Island River, Parsons Pond River and St. David's (Crabbes River), **all dredging activities should be completed by May 1. If dredging cannot be completed within this timeframe, please contact this office immediately. Should any migrating salmon or smolt be observed during dredging activities, all in-water work must be immediately halted.** Additional mitigations to be considered during dredging activities are appended to this letter.

3) Canadian Navigable Waters Act (CNWA)

Crabbes River, Fox Island River, Fischells River and Parsons Pond are located within established navigation channels. Approvals under the former Navigable Waters Protection Act have been previously issued for these locations and are appended to this letter. All mitigations stipulated in these approvals must be adhered to. **The Canadian Coast Guard's Marine Communications and Traffic Services Centre must be notified a minimum of 10 days prior to the commencement of dredging and again upon completion of the work.** The remaining in-water re-dredging sites listed above are covered by a Minor Works and Waters CNWA Order (MWWO) and do not require formal approval from the Navigation Protection Program of Transport Canada. It is the proponents' responsibility to ensure that the conditions of the MWWO are adhered to. The CNWA is not applicable to beach grading and as such, no approval is necessary for these locations.

4) Water Resources Act (Provincial)

All projects listed above are covered under the Newfoundland and Labrador Department of Environment and Conservation, Water Resources Division Minor Dredging Permit ALT10060-2018. **The NLDOEC must be notified following completion of any dredging or beach grading activities.** A copy of this permit is appended to this letter.

5) Environmental Protection Act (Provincial)

All dredged material is permitted for disposal/placement on DFO SCH property only. Placement on private property or provincial property is not permitted without prior approval from Service NL. Approval is also required from Service NL for landfill disposal of sediment.

In addition to the conditions prescribed above, the following additional conditions must be adhered to:

- i) dredge material is permitted to be placed on DFO SCH property only.
- ii) the total volume of material removed must not exceed 3500 cubic metres;
- iii) dredging must be immediately halted and this office contacted if migrating Atlantic salmon or smolt, or any other species of fish (e.g. brook trout) are observed during dredging activities.



All projects listed above may commence at your convenience. DFO is responsible to ensure all mitigations and notification requirements are adhered to. All regulatory approvals, responses/forms related to re-dredging activities are appended to this letter.

Should the scope of any of the proposed projects change, further re-evaluation is recommended. **This letter is applicable to the 2020/2021 minor dredging program only.** Should you wish to discuss any of the abovenoted projects please don't hesitate to contact me.

Regards,

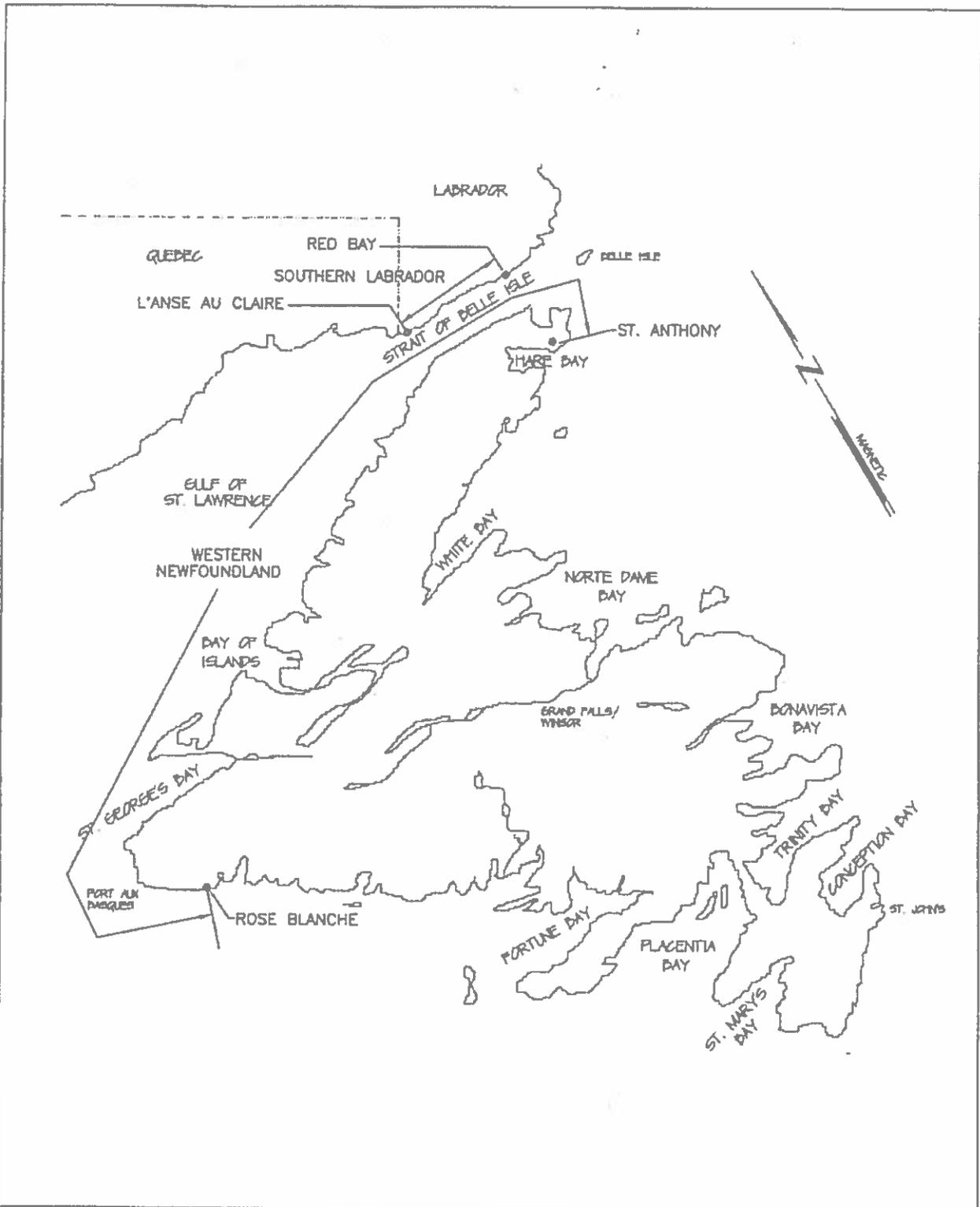
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c/c. John Doody, DFO SCH
Paul Curran, DFO SCH
Noel Hogan, PSPC

Atch.



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