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1.1 SCOPE

- .1 The work covered under this Standing Offer consists of the furnishing of all plant, labour, equipment, hardware and material to carry out minor marine dredging at various locations throughout Newfoundland, as indicated on attached Drawings No. 1 of 1, for the following regions:
  - .1 Eastern Newfoundland: East of Clarenville and Long Harbour, (Fortune Bay) including the Avalon and Burin Peninsula. In strict accordance with specification and accompanying map and subject to all terms and conditions under this Standing Offer.
  - .2 Central Newfoundland: East of, and including Jackson's Arm and McCallum, West of, but not including Clarenville and Long Harbour (Fortune Bay). In strict accordance with specification and accompanying map and subject to all terms and conditions under this Standing Offer.
- .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 in various locations of Newfoundland.
  - .2 Dredging will be on a call-up basis.

1.3 SITE OF WORK

- .1 Work will be carried out at various locations in the regions specified in clause 1.1.1, as required, and directed by the Departmental Representative.
- .2 Due to the location of some projects, certain environmental conditions are in place and must be followed.

1.4 DATUM

- .1 Datum used for this project is Lowest Normal Tides (LNT). A bench mark location and elevation will be provided at each call-up location by the Departmental Representative.
- .2 Offerors are advised to consult the Tide Tables issued by Fisheries and Oceans in order to make sure of the tidal conditions affecting the work.

1.5  
FAMILIARIZATION  
WITH SITE

- .1 Before submitting a estimate of work required for each callup, it is recommended that the contractor visit the site and its surroundings to review and verify the form, nature and extent of the work, materials needed 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 obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their estimate. 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, bidders or those they invite to site are to review specification Section 01 35 29 - Health and Safety Requirements before visiting site. Take all appropriate safety measures for any visit to site, either before or after acceptance of bid.
- .3 Obtain prior permission from the Departmental Representative before carrying out such site inspection.

1.6 TERM ENGINEER

- .1 Unless specifically stated otherwise, the term Engineer where used in the Specifications and on the Drawings shall mean the Departmental Representative as defined in the General Conditions of the Contract.

1.7 SETTING OUT  
WORK

- .1 Set grades and layout work in detail from control points and grades established by Departmental Representative.
- .2 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated or as directed by Departmental Representative.
- .3 Provide devices needed to layout and construct work.
- .4 Supply such devices as straight edges and templates required to facilitate Departmental Representative's inspection of work.

1.8 WORK SCHEDULE

- .1 Offerors are advised that the location for the work will be determined on a priority basis within the boundaries as outlined in clause 1.1.1.
- .2 The Contractor will be required to mobilize to the call-up site within 48 hours of notification from the Departmental Representative.
- .3 The schedule, including all updates, shall be to the Departmental Representative approval. Take necessary measures to complete work within approved time. Do not change schedule without Departmental Representative's approval.

1.9 ABBREVIATIONS

- .1 Following abbreviations of standard specifications have been used in this specification and on the drawings:  
CGSB - Canadian Government Specifications Board  
CSA - Canadian Standards Association ASTM - American Society for Testing and Materials
- .2 Where these abbreviations and standards are used in this project, latest edition in effect on date of bid call will be considered applicable.

1.10 SITE  
OPERATIONS

- .1 Arrange for sufficient space adjacent to project site for conduct of operations, storage of materials and so on. Exercise care so as not to obstruct or damage public or private property in area. Do not interfere with normal day-to-day operations in progress at site. All arrangements for space and access will be made by Contractor.
- .2 Remove snow and ice as required to maintain safe access and to complete project work in a manner that does not damage existing structures or interfere with the operations of others.

1.11 PROJECT  
MEETINGS

- .1 Departmental Representative will arrange project meetings and assume responsibility for setting times and recording minutes. Project meetings will take place on site of work unless so directed by the Departmental Representative.

1.12 PROTECTION

- .1 Store all materials and equipment to be incorporated into work to prevent damage by any means.
- .2 Repair or replace all materials or equipment damaged in transit or storage to the satisfaction of Departmental Representative and at no cost to Canada.

1.13 EXISTING  
SERVICES

- .1 Where work involves breaking into or connecting to existing services, carry out work at times directed by governing authorities, with minimum of disturbance to site operations, pedestrian, vehicular traffic and tenant operations.
- .2 Before commencing work, establish location and extent of service lines in area of work and notify Departmental Representative of findings. Note: Contractors take note, there are existing light poles, power lines, and guard rail in the area of work. Contractor to take pre-caution when evacuating, salvaging and placing all material. Any damage will be the responsibility of the contractor to repair.

1.13 EXISTING  
SERVICES  
(Cont'd)

- .3 Submit schedule to and obtain approval from Departmental Representative for any shut-down or closure of active service or facility. This includes disconnection of electrical power and communication services to tenant's operational areas. Adhere to approved schedule and provide notice to affected parties.
- .4 Provide temporary services when directed by Departmental Representative to maintain critical facility systems.
- .5 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.

1.14 DOCUMENTS  
REQUIRED  
                    

- .1 Maintain at job site, one copy each of the following:
  - .1 Contract Drawings
  - .2 Specifications
  - .3 Other modifications to Contract
  - .4 Copy of Approved Work Schedule
  - .5 Site specific Health and Safety Plan and other safety related documents
  - .6 Other documents as stipulated elsewhere in the Contract Documents.

1.15 PERMITS

- .1 Obtain and pay for all permits, certificates and licenses as required by Municipal, Provincial, Federal and other Authorities.
- .2 Provide appropriate notifications of project to municipal and provincial inspection authorities.
- .3 Obtain compliance certificates as prescribed by legislative and regulatory provisions of municipal, provincial and federal authorities as applicable to the performance of work.
- .4 Submit to Departmental Representative, copy of application submissions and approval documents received for above referenced authorities.

1.15 PERMITS  
(Cont'd)

- .5 Comply with all requirements, recommendations and advise by all regulatory authorities unless otherwise agreed in writing by Departmental Representative. Make requests for such deviations to these requirements sufficiently in advance of related work.
- .6 Follow all Regulatory Approvals and Responses already obtained by Canada for this project.

1.16 LOCATION OF  
EQUIPMENT

- .1 Location of equipment, fixtures, power pedestals and outlets, shown or specified shall be considered as approximate. Actual location shall be as required to suit conditions at time of installation and as is reasonable. Obtain approval of Departmental Representative.
- .2 Locate equipment, fixtures and distribution systems to provide minimum interference and maximum usable space and in accordance with manufacturer's recommendations for safety, access and maintenance.
- .3 Inform Departmental Representative when impending installation conflicts with other new or existing components. Follow directives for actual location.
- .4 Submit field drawings to indicate relative position of various services and equipment when required by Departmental Representative.

1.17 FISH HABITAT

- .1 This work is being conducted in an area where fish habitat may be affected. Perform work to conform with rules and regulations governing fish habitat and in accordance with authorization for work or undertakings affecting fish habitat.
- .2 Contact the Department of Fisheries and Oceans detachment at least 48 hours in advance of starting any work on site.

1.18 NOTICE TO  
SHIPPING/MARINERS

- .1 Notify the Marine Communications and Traffic Services' Centre, of Fisheries and Oceans Canada, at (709) 772-2083, Five (5) days prior to commencement and upon completion of the work, in order to allow for the issuance of Notices to Shipping/Mariners.
- .2 During construction any vessels or barges utilized must be marked in accordance with the provisions of the Canada Shipping Act Collision Regulations.

1.19 ACCEPTANCE

- .1 Prior to the finalizing the call-up, in the company with Departmental Representative, make a check that all work is completed. Correct all discrepancies before final inspection and acceptance.

1.20 WORKS  
COORDINATION

- .1 Mobilization to each call-up location is to commence within 48 hours after each call-up has been issued and submission of Site Specific Safety Plan, unless otherwise agreed by Departmental Representative.
- .2 Make every effort to ensure that sufficient equipment is delivered to site after each call-up has been issued.
- .3 Canada will not be responsible for or held accountable for any extra costs incurred as a result of the failure to carry out coordination work. Disputes between the various trades as a result of their not being informed of the areas and extent of interface work shall be the sole responsibility of the General Contractor and shall be resolved at no extra cost to Canada.

1.21 CONTRACTOR'S  
USE OF SITE

- .1 Construction operations, including storage of materials for this contract, not to interfere with the fishing activity and/or operations at this harbour facility.
-



1.21 CONTRACTOR'S  
USE OF SITE  
(Cont'd)

- .2 Responsible for arranging the storage of materials on or off site, and any materials stored at the site which interfere with any of the day to day activities at or near the site will be moved promptly at the Contractor's expense, upon request by Departmental Representative.
- .3 Contractor will take adequate precautions to protect existing roadways, concrete decks and asphalt when operating tracked equipment.
- .4 Exercise care so as not to obstruct or damage public or private property in the area.
- .5 At completion of work, restore area to its original condition. Damage to ground and property will be repaired by Contractor. Remove all construction materials, residue, excess, etc., and leave site in a condition acceptable to Departmental Representative.

1.22 WORK  
COMMENCEMENT  
                    

- .1 Mobilization to project site is to commence immediately after each call-up is in place and the submission of Site Specific Safety Plan, unless otherwise agreed by Departmental Representative.
  - .2 Project work on site is to commence as soon as possible, with a continuous reasonable work force, unless otherwise agreed by Departmental Representative.
  - .3 Weather conditions, short construction season, delivery challenges and the location of the work site may require the use of longer working days and additional work force to complete the project within the specified completion time.
  - .4 Make every effort to ensure that sufficient material and equipment is delivered to site at the earliest possible date after each call-up is in place and replenished as required.
-

- 1.23 INVOICING
- .1 Contractor is required to notify Departmental Representative upon completion of work at each call-up location before submitting 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.
- 1.24 FACILITY  
SMOKING ENVIRONMENT
- .1 Comply with smoking restrictions.
- 1.25 INTERPRETATION  
OF 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.
- 1.26 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 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 Diving Support Vessel: a safety boat on site or a work boat if required.
- .5 PPE: personal protective equipment
- .6 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 Make submittals in accordance with regulations that apply to the Work.
- .2 Submit site-specific Health and Safety Plan prior to commencement of Work.
  - .1 Submit within 2 work days of notification of call-up. Provide (1) copy.
  - .2 Departmental Representative will review Health and Safety Plan and provide comments.
  - .3 Revise the Plan as appropriate and resubmit within 1 work days after receipt of comments.

1.2 SUBMITTALS  
(Cont'd)

- .2 (Cont'd)
  - .4 Departmental Representative's 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 responsibility for Occupational Health and Safety of the Work.
  - .5 Submit revisions and updates made to the Plan during the course of Work.
- .3 Submit name of designated Health & Safety Site Representative and support documentation specified in the Safety Plan.
- .4 Submit building permit, compliance certificates and other permits obtained.
- .5 Submit copy of Letter in Good Standing from Provincial Workers Compensation or other department of labour organization.
  - .1 Submit update of Letter of Good Standing whenever expiration date occurs during the period of Work.
- .6 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .7 Submit copies of incident reports.
- .8 Submit WHMIS MSDS - Material Safety Data Sheets.

1.3 COMPLIANCE  
REQUIREMENTS

- .1 Comply with Occupational Health and Safety Act for Province of 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: [www.http://laws.justice.gc.ca/en/L-2/](http://laws.justice.gc.ca/en/L-2/)
  - .2 COSH can be viewed at: [www.http://laws.justice.gc.ca/eng/SOR-86-304/](http://laws.justice.gc.ca/eng/SOR-86-304/) n e .html

1.3 COMPLIANCE  
REQUIREMENTS  
(Cont'd)

- .2 (Cont'd)
  - .3 A copy may be obtained at: Canadian Government Publishing Public Works & Government Services Canada Ottawa, Ontario, K1A 0S9 Tel: (819) 956-4800 (1-800-635-7943) Publication No. L31-85/2000 E or F)
- .3 Observe construction safety measures of:
  - .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. Provide proof of clearance through submission of Letter in Good Standing.
- .6 Medical Surveillance: Where prescribed by legislation or regulation, obtain and maintain worker medical surveillance documentation.

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 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 and remove non-authorized persons.

1.5 SITE CONTROL  
AND ACCESS  
(Cont'd)

- .1 (Cont'd)
  - .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, however, Contractor remains responsible for the health and safety of authorized persons while at the Work Site.
- .2 Isolate Work Site from other areas of the premises by use of appropriate means.
  - .1 Erect fences, hoarding, barricades and temporary lighting as required to effectively delineate the Work Site, stop non-authorized entry, and to protect pedestrians and vehicular traffic around and adjacent to the Work and create a safe environment.
  - .2 Post signage at entry points and other strategic locations indicating restricted access and conditions for access.
- .3 Provide safety orientation session to persons granted access to Work Site. Advise of hazards and safety rules to be observed while on site.
- .4 Ensure persons granted site access wear appropriate PPE. Supply PPE to inspection authorities who require access to conduct tests or perform inspections.
- .5 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 situation and prevent damage or harm. Advise Departmental Representative verbally and in writing.

1.7 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 needed.

1.8 PERMITS

- .1 Post permits, licenses and compliance certificates, specified in section 01 10 10, at Work Site.
- .2 Where a 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.

1.9 HAZARD  
ASSESSMENTS

- .1 Perform site specific health and safety hazard assessment of the Work and its site.
- .2 Carryout initial assessment prior to commencement of Work with further 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 on site for entire duration of the Work.

1.10 PROJECT/SITE  
CONDITIONS

- .1 Following are potential health, environmental and safety hazards at the site for which Work may involve contact with:
  - .1 Working in close proximity of water or in the water.
  - .2 Use of water crafts, working from vessel and floating platforms.
  - .3 Wet and slippery conditions.
  - .4 Weather conditions and exposure risk.
  - .5 Potential structural weakness of existing structures.
  - .6 Heavy equipment activity in the area.

1.10 PROJECT/SITE  
CONDITIONS  
(Cont'd)

- .1 (Cont'd)
  - .7 Heavy lifting with equipment (lift bags, etc.).
  - .8 Working at heights.
  - .9 Cutting tools and other construction power tools.
  - .10 Overhead power/utility lines.
  - .11 Risk of electric shock when using equipment.
  - .12 Vehicular and pedestrian traffic.
  - .13 Working in poor lighting conditions, muddy water, night time.
  - .14 Working around old wharves with nets, spikes and various debris.
  - .15 Fishing activities with boats.
- .2 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 Attend pre-construction health and safety meeting if required, convened and chaired by Departmental Representative, prior to commencement of Work, at time, date and location determined by Departmental Representative. Ensure attendance of:
  - .1 Superintendent of Work
  - .2 Designated Health & Safety Site Representative
  - .3 Subcontractors
- .2 Conduct regularly scheduled tool box and safety meetings during the Work in conformance with Occupational Health and Safety regulations.
- .3 Keep documents on site.



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 Evacuation Plan: site and floor plan layouts showing escape routes, marshalling areas. Details on alarm notification methods, fire drills, location of fire fighting equipment and other related data.
  - .3 Name, duties and responsibilities of persons designated as Emergency Warden(s) and deputies.
  - .4 Emergency Contacts: name and telephone number of officials from:
    - .1 General Contractor and subcontractors.
    - .2 Pertinent Federal and Provincial Departments and Authorities having jurisdiction.
    - .3 Local emergency resource organizations.

1.12 HEALTH AND  
SAFETY PLAN  
(Cont'd)

- .3 (Cont'd)
  - .4 (Cont'd)
  - .5 Harmonize Plan with Facility's Emergency Response and Evacuation Plan. Departmental Representative will provide pertinent data including name of PWGSC and Facility Management contacts.
- .4 On-site Communication Plan:
  - .1 Procedures for sharing of work related safety information to workers and subcontractors, including emergency and evacuation measures.
  - .2 List of critical work activities to be communicated with Facility Manager which have a risk of endangering health and safety of Facility users.
- .5 Address all activities of the Work including those of subcontractors.
- .6 Review Health and Safety Plan regularly during the Work. Update as conditions warrant to address emerging risks and hazards, such as whenever new trade or subcontractor arrive at Work Site.
- .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 Post copy of the Plan, and updates, prominently on Work Site.

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.

1.13 SAFETY  
SUPERVISION  
(Cont'd)

- .2 (Cont'd)
  - .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 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. Record deficiencies and remedial action taken.
  - .2 Conduct Formal Inspections on a minimum monthly basis. Use standardized safety inspection forms. Distribute to subcontractors.
  - .3 Follow-up and ensure corrective measures are taken.
- .6 Cooperate with Facility's Occupational Health and Safety representative should one be designated by Departmental Representative.
- .7 Keep inspection reports and supervision related documentation on site.

1.14 TRAINING

- .1 Use only skilled workers 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.

1.14 TRAINING  
(Cont'd)

- .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 and hearing protection.
  - .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:

1.17 INCIDENT  
REPORTING  
(Cont'd)

- .1 (Cont'd)
  - .1 Incidents requiring notification to Provincial Department of Occupational Safety and Health, Workers Compensation Board or to other regulatory Agency.
  - .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 Federal department in excess of \$5000.00.
- .2 Submit report in writing.

1.18 HAZARDOUS  
PRODUCTS

- .1 Comply with requirements of Workplace 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.
  - .3 For interior work in an occupied Facility, post additional copy in one or more publically accessible locations.

1.19 BLASTING

- .1 Blasting or other use of explosives is not permitted on site without prior receipt of written permission and instructions from Departmental Representative.
- .2 Do blasting operations in accordance all permits.

1.20 POWDER  
ACTUATED DEVICES

- .1 Use powder actuated fastening devices only after receipt of written permission from Departmental Representative.

1.21 CONFINED  
SPACES

- .1 Abide by occupational health and safety regulations regarding work in confined spaces.

1.21 CONFINED  
SPACES  
(Cont'd)

- .2 Obtain an Entry Permit in accordance with Part XI of the Canada Occupational Health and Safety Regulations for entry into an existing identified confined space located at the Facility or premises of Work.
  - .1 Obtain permit from Facility Manager
  - .2 Keep copy of permit issued.
- .3 Safety for Inspectors:
  - .1 Provide PPE and training to Departmental Representative and other persons who require entry into confined space to perform inspections.
  - .2 Be responsible for efficacy of equipment and safety of persons during their entry and occupancy in the confined space.

1.22 SITE RECORDS

- .1 Maintain on Work Site 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.

1.23 POSTING OF  
DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on Work Site in accordance with Acts and Regulations of Province having jurisdiction.
- .2 Post other documents as specified herein, including:
  - .1 Site specific Health and Safety Plan
  - .2 WHMIS data sheets

1.24 DIVING  
OPERATIONS

- .1 All diving work to comply fully with the requirements of CSA Z275.2-04, "Occupational Safety Code for Diving Operations", CSA Z275.4-02, "Competency Standards for Diving Operations" and CSA Z180.1-00, "Compressed Breathing Air and Systems." The contractor is also required to comply with Divisions I and II for Type 2 Dives as defined in Part XVIII of the Canada Labour Code for Diving Operations.
- .2 Dive personnel must meet the minimum competency requirements of the CSA Z275.4-02 (R2008) and all divers must possess an Unrestricted Surface-Supplied Certificate or a valid Category 1 Diving Certificate. Submit copy to Departmental Representative prior to starting work of each callup and OHS/Consultants will be doing spot check to see if firms are in compliance with all Health and safety.
- .3 Diving in free-swim mode is not permitted at the work site.
- .4 Divers must have a current (less than one year) validated medical examination certificate(s) from a licensed Diving Physician in Newfoundland and Labrador who is knowledgeable and competent in diving and hyperbaric medicine, for all dives.

1.25 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 contract.

## 1.1 REFERENCES

- .1 WHMIS: Workplace Hazardous Materials Information System, Health Canada.
- .2 Transport Canada, Transportation of Dangerous Goods Regulations including SOR/2011-210 (Amendment 10) and SOR/2011-239 (Amendment 8), <http://www.tc.gc.ca/eng/tdg/safety-menu.htm> 1-866-814-1477.
- .3 Guidelines for the Use of Explosives In or Near Canadian Fisheries Waters, Department of Fisheries and Oceans Canada, 1998.
- .4 MBCA: Migratory Birds Convention Act, Environment Canada, 1994, <http://laws-lois.justice.gc.ca/eng/acts/M-7.0/>.
- .5 Canadian Coast Guard Regulations, Department of Fisheries and Oceans Canada, [http://www.ccg-gcc.gc.ca/eng/Ccg/atn\\_Laws](http://www.ccg-gcc.gc.ca/eng/Ccg/atn_Laws).
- .6 Canadian Shipping Act, Transport Canada, 2001, <http://tc.gc.ca/eng/acts-regulations/acts-2001c26.htm>.
- .7 AWWPA: American Wood Protection Association, <http://www.awpa.com/>.

## 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.
- .2 Wetlands: land where the water table is at, near or above the surface or which is saturated for a long enough period to promote such features as wet-altered soils and water tolerant vegetation. Wetlands include organic wetlands or "peatlands," and mineral wetlands or mineral soil areas that are influenced by excess water but produce little or no peat



1.2 DEFINITIONS  
(Cont'd)

- .3 Watercourse: refers to the bed and shore of a river, stream, lake, creek, pond, marsh, estuary or salt-water body that contains water for at least part of each year.
- .4 Alien species: refers to a species or subspecies introduced outside its normal distribution whose establishment and spread threaten ecosystems, habitats or species with economic or environmental harm.
- .5 Buffer zone: a vegetated land that protects watercourses from adjacent land uses. It refers to the land adjacent to watercourses, such as streams, rivers, lakes, ponds, oceans, and wetlands, including the floodplain and the transitional lands between the watercourse and the drier upland areas.

1.3 TRANSPORTATION

- .1 Transport hazardous materials and hazardous waste in compliance with Federal Transportation of Dangerous Goods Act.
- .2 Do not overload trucks when hauling material. Secure contents against spillage.
- .3 Maintain trucks clean and free of mud, dirt and other foreign matter.
- .4 Avoid potential release of contents and of any foreign matter onto highways, roads and access routes used for the Work. Take extra care when hauling dredged material and other hazardous materials. Immediately clean any spillage and soils.
- .5 Before commencement of work, advise the Departmental Representative of the existing roads and temporary routes proposed to be used to access work areas and to haul material to and from the site, including roads to the dredged disposal field.

1.4 HAZARDOUS  
MATERIAL HANDLING

- .1 Handle and store hazardous materials on site in accordance with WHMIS procedures and requirements.
- .2 Store all hazardous liquids in location and manner to prevent their spillage into the environment.
- .3 Maintain written inventory of all hazardous materials kept on site. List product name, quantity and storage date.
- .4 Keep MSDS data sheets on site for all items.

1.5 PETROLEUM, OIL  
AND LUBRICANTS

- .1 Comply with Federal and Provincial laws, regulations, codes and guidelines for the storage of fuel and petroleum products on site.
- .2 Do not place fuel storage tanks and store fuel or other petroleum products within a 30 metre buffer zone of watercourses and wetlands. Do not fuel or lubricate equipment within this 30 metre buffer zone. Obtain approval from Departmental Representative of acceptable location on site for fuel storage and equipment service.
- .3 Do not dump petroleum products or any other deleterious substances on ground or in the water.
- .4 Be diligent and take all necessary precautions to avoid spills and contaminate the soil and water (both surface and subsurface) when handling petroleum products on site and during fueling and servicing of vehicles and equipment.
- .5 Maintain on site appropriate emergency spill response equipment consisting of at least one 250 litre (55 gallon) overpack spill kit for containment and cleanup of spills.
- .6 Maintain vehicles and equipment in good working order to prevent leaks on site.

1.5 PETROLEUM, OIL AND LUBRICANTS (Cont'd)	.7	In the event of a petroleum spill, immediately notify the Departmental Representative and the Canadian Coast Guard (CCG) at 1-800-565-1633 (24 hour report line). Perform clean-up in accordance with all regulations and procedures stipulated by authority having jurisdiction.
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1.6 DISPOSAL OF WASTES AND HAZARDOUS MATERIALS	.1	Do not bury rubbishdemolition debris and waste materials on site. Dispose at approved landfill sites as specified.
	.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	Do not store, handle and dispose of hazardous materials and hazardous waste in accordance with applicable federal and provincial laws, regulations, codes and guidelines.
	.4	Do not dispose of hazardous waste, volatile materials (such as mineral spirits, paints, thinners etc.) and petroleum products into waterways, storm or sanitary sewers or in waste landfill sites.
	.5	Dispose of construction waste materials and demolition 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.

1.6 DISPOSAL OF  
WASTES AND  
HAZARDOUS  
MATERIALS  
(Cont'd)

- .6 Establish methods and undertake construction practices which will minimize waste and optimize use of construction materials. Separate at source all construction waste materials, demolition debris and product packaging and delivery containers into various waste categories in order to maximize recycling abilities of various materials and avoid disposal of debris at landfill site(s) in a "mixed state". Where recycling firms, specializing in recycling of specific materials exist, transport such materials to the recycling facility and avoid disposal at landfill sites.
- .7 Communicate with landfill operator prior to commencement of work, to determine what specific construction, demolition and renovation waste materials have been banned from disposal at the landfill and at transfer stations.

1.7 DRAINAGE

- .1 Provide temporary drainage and pumping as necessary to keep excavations and site free from water.
- .2 Do not pump 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 Pumped water must meet applicable federal, provincial, and municipal standards before it can be discharged to a surface water body. If regulatory guidelines exceedences are noted, the Departmental Representative has the right to issue stop pumping instructions to the Contractor. Contractor will not be compensated for any delays associated with retrofitting equipment to meet guidelines.

1.7 DRAINAGE  
(Cont'd)

- .5 Provide control devices such as filter fabrics, sediment traps and settling ponds to control drainage and prevent erosion of adjacent lands. Maintain in good order for duration of work.

1.8 PERMITS

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

1.9 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 Do not blast under water or within 100 m of spawning beds.
- .8 Do not refuel any type of equipment within 100 m of a water body. Maintain equipment in good working condition with no fluid leaks, loose hoses or fittings.

1.10 POLLUTION  
CONTROL

- .1 Maintain temporary erosion and pollution control features installed under this contract.
- .2 Control emissions from equipment and plant to local authorities emission requirements.

1.10 POLLUTION  
CONTROL  
(Cont'd)

- .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.
- .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.
- .7 Report, to Federal and Provincial Department of the Environment, spills of petroleum and other hazardous materials as well as accidents having potential of polluting the environment. Also notify Departmental Representative and submit a written spill report to Departmental Representative within 24 hours of occurrence.
- .8 Provide a floating debris containment boom whenever any of the Contractors methods of work allow for the potential of floating debris.

1.11 WATER QUALITY

- .1 Conduct dredging excavation work of a watercourse or wetland in such a manner to limit turbidity and reduce sediment suspension in the water to an absolute minimum at all times.
  - .1 Maintain appropriate production speed and momentum of the dredging excavation equipment. Make adjustments as required and as approved by Departmental Representative.
  - .2 Strategically position dredging excavator equipment and barge haul vehicles to avoid over the water swings of excavated material whenever possible.

- 1.11 WATER QUALITY (Cont'd)
- .2 Where work may affect the water quality adjacent to water intake lines used by Lobster Holding Facilities, Fish Processing Facilities and other harbour users, schedule work in cooperation with the Harbour Authority as directed by Departmental Representative to minimize interference and impact to harbour users.
- .3 Visually monitor the water turbidity of the surrounding areas adjacent to the work and up to the established dredge limit of 200 metre.
- .1 Should excessive change occur in the turbidity beyond the dredge limit which differs from existing conditions of the surrounding water bodies, such as a distinct color difference; notify the Departmental Representative to obtain appropriate mitigation measures to be followed.
- .4 Water quality during suction dredging:
- .1 Minimize out-fall of the dredge material at the disposal site by placing the pipeline outtake at or near the water level surface.
- .2 Restrict vessel traffic adjacent to the disposal site to an absolute minimum to avoid the re-suspension of dredged material from propeller wash.
- .5 Water contamination by preservative treated wood:
- .1 Preservative treated lumber and timber, whether plant or site treated, shall be cured for a minimum of 30 days from date of the treatment application before their installation in areas which will be in contact with the water.
- .2 Do not cut treated wood lumber over the surface of a watercourse or wetland.
- .3 Do not use liquid applied preservative products over the surface of a watercourse or wetland.
- .4 Wood treated with Chromate Copper Arsenate (CCA) or Ammoniac Copper Zinc Arsenate (ACZA) must be CSA or AWP approved.
- .5 Do not use timber and lumber treated with cresote, petroleum and pentachlorophenol for any part of the Work.

1.11 WATER QUALITY (Cont'd) .6 Do not washdown equipment within a 30 metre buffer zone of a wetland, watercourse or other identified environmentally sensitive area.

1.12 SOCIOECONOMIC RESTRICTIONS .1 Abide by municipal and provincial regulations for any restrictions on work performed during the night time and on flood lighting of the site. Obtain applicable permits.

.2 Place flood lights in opposite direction of adjacent residential and business areas.

.3 Equip equipment and machinery with purposely designed mufflers to reduce noise on site to lowest possible level. Maintain mufflers in good operating condition at all times.

1.13 BIRDS AND BIRD HABITAT .1 Become knowledgeable with abide by the Migratory Birds Convention Act (MBCA) in regards to the protection of migratory birds, their eggs, nests and their young encountered on site and in the vicinity.

.2 Minimize disturbance to all birds on site and adjacent areas during the entire course of the Work.

.3 Do not approach concentrations of seabirds, waterfowl and shorebirds when anchoring equipment, accessing wharves or ferrying supplies.

.4 During night time work, position flood lights in opposite direction of nearby bird nesting habitat.

.5 Do not use beaches, dunes and other natural previously undisturbed areas of the site to conduct work unless specifically approved by the Departmental Representative.

.6 Should nests of migratory birds in wetlands be encountered during work, immediately notify Departmental Representative for directives to be followed.



1.13 BIRDS AND BIRD HABITAT  
(Cont'd)

- (Cont'd)
- .1 Do not disturb nest site and neighbouring vegetation until nesting is completed.
  - .2 Minimize work immediately adjacent to such areas until nesting is completed.
  - .3 Protect these areas by following recommendations of Canadian Wildlife Service.

1.14 WILDLIFE PROTECTION

- .1 Should nests of migratory birds in wetlands be encountered during work, immediately notify Departmental Representative for directives to be followed.
  - .1 Do not disturb nest site and neighbouring vegetation until nesting is completed.
  - .2 Minimize work immediately adjacent to such areas until nesting is completed.
  - .3 Protect these areas by following recommendations of Canadian Wildlife.

1.15 FISH AND FISH HABITAT

- .1 Be aware of the risk for contamination of the fish habitat at the site as a result of alien species being introduced in the water.
- .2 To minimize the possibility of fish habitat contamination, all construction equipment which will be immersed into the water of a watercourse, or has the possibility of coming into contact with such water during the course of the work, must be cleaned and washed to ensure that they are free of marine growth and alien species.
  - .1 Equipment shall include boats, barges, cranes, excavators, haul trucks, pumps, pipe lines and other all miscellaneous tools and equipment previously used in a marine environment.
- .3 Cleaning and washing of equipment shall be performed immediately upon their arrival at the site and before use in or over the body of water.
- .4 Conduct cleaning and washing operations as follows:
  - .1 Scrap and remove heavy accumulation of mud and dispose appropriately.

1.15 FISH AND FISH  
HABITAT  
(Cont'd)

- .4 (Cont'd)
  - .2 Wash all surfaces of equipment by use of a pressurized fresh water supply.
  - .3 Immediately follow with application of a heavy sprayed coating of undiluted vinegar or other environmentally approved cleaning agent to thoroughly remove all plant matter, animals and sediments.
  - .4 Check and remove all plant, animal and sediment matter from the all bilges and filters.
  - .5 Drain standing water from equipment and let fully dry before use.
  - .6 Upon removal from the water, drain standing water from equipment and let fully dry before removal off the site.
- .5 Do not perform cleaning and washdown within a 30 metre buffer zone of a wetland, watercourse or other identified environmentally sensitive area.
- .6 Record of Assurance Logbook:
  - .1 Maintain an on-going log of past and present usage and washdowns of all equipment to illustrate mitigation measures undertaken against fish habitat contamination by alien species.
  - .2 Write data in a hard cover bound logbook,
  - .3 Include the following:
    - .1 Date and location where equipment was previously used in a watercourse or wetland;
    - .2 Type of work performed.
    - .3 Dates of washdown for each piece of equipment;
    - .4 Cleaning method and cleaning agent(s) used.
- .7 Keep Record of Assurance Logbook updated from project to project. Upon request, submit logbook to Departmental Representative for review.
- .8 Abide by requirements and recommendations of the Federal Department of Environment and the Department of Fisheries and Oceans - Habitat Protection and Sustainable Development Branch in cleaning and washdown of equipment.

1.16 AIR QUALITY

- .1 Keep airborne dust and dirt resulting from the work on site to an absolute minimum.
- .2 Apply dust control measures to roads, parking lots and work areas.
- .3 Spray surfaces with water or other environmentally approved product. Use purposely suited equipment or machinery and apply in sufficient quantity and frequency to provide effective result and continued dust control during the entire course of the work.
- .4 Do not use oil or any other petroleum products for dust control.

1.17 FIRES

- .1 Fires and burning of rubbish on site is not permitted.

PART 1 - GENERAL

1.1 RELATED  
SECTIONS

- .1 Section 01 35 29 - Health and Safety Requirements

1.2 DESCRIPTION

- .1 This section specifies requirements for the dredging of Class "B" material to the grades and dimensions as indicated by the Departmental Representative.

1.3 MEASUREMENT  
PROCEDURES

- .1 Mobilization and Demobilization: will be paid by the kilometer for the one-way distance from base of operations for each individual region to the dredge site, from the dredge site to the next dredge site, or from the dredge site back to the base of operations if greater than 100km in addition to the fixed amount, anything less than 100km will be charged a cost of \$500 as applicable, for one (1) hydraulic backhoe/excavator (size doesn't matter) as required by the Departmental Representative. Payment to include all labour and materials.
- .2 Mobilization and Demobilization of dump trucks to and from the dredge site will be pay by the hour as described in Clause 1.3.4.2.
- .3 Base of operations for this standing offer will be St. John's, NL for the Eastern Region and will be Gander, NL for the Central Region.
- .4 Dredging:  
.1 Payment for the hydraulic backhoe will be at hourly operating rate for actual time worked in the dredging operations. Hourly operating rates will include operator, all petroleum products, all equipment necessary in operating hydraulic backhoe and maintenance repairs. Contractor working in areas where (tides only) have a big impact on dredging, will be paid the same hourly rate as for operating.

1.3 MEASUREMENT  
PROCEDURES  
(Cont'd)

- .4 (Cont'd)
- .2 Payment for trucks will be at hourly operating rate for actual time worked, which includes travel from home base to site, dredging operations (idle time won't be paid), travel to additional site or back to home base. Hourly operating rates will include operator, all petroleum products, all equipment necessary in operating trucks, maintenance repairs and all associate costs. Contractor working in areas where tides only have a big impact on dredging, will be paid the same hourly rate as for operating.
- .3 Payment for dredging will be by the cubic meter truck measure(cmtm) but will be subject to Clause 1.3.6 and Clause 1.3.7 for payment.
- .5 No payment will be made for downtime due to mechanical problems, maintenance of equipment, breaks and meal hours or for otherwise idle equipment unless authorized by the Departmental Representative.
- .6 There will be no payment for standby time with any equipment unless the Contractor is unable to dredge due to conditions beyond the Contractor's control at the dredge site (tidal conditions). Contractor is to advise the Departmental Representative when this occurs or the hours will be deducted. Any downtime beyond the contractors control will be added to the operating hours of the hydraulic backhoe and dump trucks. Ideal time of equipment between trucks leaving and returning to the site will not be deducted unless greater then 30min.
- .7 The contractor and Departmental Representative's on-site representative may sign a statement provided by the Departmental Representative at the end of each day, outlining the number of operating hours and downtime hours for each piece of equipment involved in the dredging operation and the number of (cmtm) of dredged material trucked to the approved landfill.

1.3 MEASUREMENT  
PROCEDURES  
(Cont'd)

- .8 PWGSC will be periodically conducting "after dredging" hydrographic surveys to verify grade depths, dredged limits and quantities of dredged material removed although the contractor will still be paid for hours worked. Only if PWGSC's survey demonstrate significant errors in control during dredging operations may hours be adjusted.
- .9 There will be no additional payment for downtime and for delays caused by vessel traffic.
- .10 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, permits and operations.
- .11 All material dredged will be considered Class "B" for payment purposes, including any boulders.
- .12 Note: All dumping fees will be paid to the Contractor at cost upon submission of receipt of payment from the municipal authority.
- .13 Travel/Expenses - will be paid as per Federal Government Travel Regulations with details of expense claims to be broken down daily, showing departure from home base and arrival times at site, meals, incidental and accommodations on the invoices.

1.3 MEASUREMENT  
PROCEDURES  
(Cont'd)

- .14 Miscellaneous Equipment Rental Allowance: The rental of miscellaneous equipment or tools (not identify in the unit price table) owned by others will be paid at the fair industry rate according to the actual invoiced cost, including 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 this equipment. When bidding this unit the Contractor's overhead and profit factor will be entered in the space provided on the Unit Price Table. This factor will then be multiplied by the Miscellaneous Material Allowance principal of \$30,000.00 to determine the total Miscellaneous Equipment Rental Allowance Cost. The Contractor must make every effort to obtain the best price available for any specified equipment. All quotes and/or costs must pre-approved by the Departmental Representative. All costs must be supported by adequate documentation.

1.4 DEFINITIONS

- .1 Dredging: excavating, transporting and disposing of underwater materials.
- .2 Class "B" material: loose or shale rock, silt, sand, quick sand, mud, shingle, gravel, clay, sand, gumbo, boulders, hardpan and debris of individual volumes less than 2.5 m<sup>3</sup>.
- .3 Obstructions: material other than Class "A", having individual volumes of 2.5 m<sup>3</sup> or "deteriorated concrete or wooden wharves".
- .4 CMPM: cubic meters place measure. SQM: area in square metres projected horizontal. CMTM: cubic meters truck measure, to a maximum of 8 cubic metres per truck.
- .5 Debris: pieces of wood, wire rope, scrap steel, pieces of concrete and other waste materials.
- .6 Grade: plane above which material is to be dredged.
- .7 Sub-grade: plane parallel to and 300 mm below grade.

#### 1.4 DEFINITIONS

(Cont'd)

- .8 Estimated quantity:
  - .1 Volume of material calculated to be above sub-grade and within specified side slopes unless otherwise specified.
  - .2 Areas in square metres of material calculated horizontally to exist above grade and within dredge limits, unless otherwise specified.
- .9 Side slope: inclined surface or plane from subgrade at side limit of dredging area to intersect original ground line outside of side limit and to be expressed as ratio of horizontal to vertical.
- .10 Chart Datum: permanently established plane from which soundings or tide heights are referenced, usually Lowest Normal Tide (L.N.T.).
- .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 Minimum Mode: mode of operation of hydrographic survey equipment where minimum sounding over length of travel between position updates will be retained in memory. Soundings taken in this mode may be shallower than actual bottom elevations due to variations in water depths due to wave action.
- .13 Matrix Block: each dredge area is presented as number of 1.2 x 3.0 m long blocks. Dependent on position of sounding, block may have 0 to 4 soundings contained within it.
- .14 Least of Minimum Plan: hydrographic survey plan in which least sounding in grouping of matrix blocks is plotted.



1.4 DEFINITIONS  
(Cont'd)

- .15 Instantaneous Mode: mode of operation of hydrographic survey equipment where only sounding observed at predetermined distance interval is retained in memory.
- .16 Average of Instantaneous Plan: hydrographic survey plan in which average sounding in appropriate grouping of matrix blocks is plotted.
- .17 Lowest Normal Tide (L.N.T.): plane so low that tide will seldom fall below it.
- .18 Cleared Area: area of dredging accepted as complying with the Call-up.

1.5 REGULATORY  
REQUIREMENTS

- .1 Comply with municipal, provincial and national codes and regulations relating to call-up.
- .2 All operations in connection with field positioning of dredging equipment will not be measured separately for payment.
- .3 Mark floating equipment in accordance with the provisions of the Canada Shipping Act Collision Regulations.

1.6 WASTE  
MANAGEMENT AND  
DISPOSAL

- .1 Perform work, in accordance with municipal, provincial and or national codes and regulations, including the provisions of the Ocean Dumping Control Act Permit issued for the call-up. In any case of conflict or discrepancy, the more stringent requirements will apply.
- .2 Metals, wood and recyclable materials removed during the dredging activities must be diverted appropriate recycling facilities.

1.7 SCHEDULING

- .1 Upon completion of the dredging at project site, should another location be identified for dredging, mobilization will be paid from site to site. However, should there be a lapse between jobs, mobilization and demobilization will be paid by the kilometer from job location to home base, as described in Clause 1.3.3. Contractor is to advise the Departmental Representative at least 24 hours in advance of completing the dredging call-up, so the Departmental Representative can identify additional sites if required.

1.8 LOCATION

- .1 Work comprises dredging of areas as indicated on the call-ups provided by the Departmental Representative.

1.9 INTERFERENCE TO  
NAVIGATION

- .1 Be familiar with vessel movements and fishery activities in area affected by dredging operations. Plan and execute Work in manner that will not interfere with fishing operations, marine operations, construction activities at wharf sites, or access to wharves by land or water.
- .2 Canada will not be responsible for loss of time, equipment, material or any other cost related to interference with moored vessels in harbour or due to other Contractor's operations.
- .3 Keep the Marine Communications and Traffic Services' Centre, of Fisheries and Oceans Canada, informed of dredging operations in order that necessary Notices to Shipping/Mariners will be issued.

1.10 DATUM, WATER  
GAUGES AND TARGETS

- .1 Areas to be dredged are to be referenced to vertical bench marks, for each location of dredging, as indicated by the Departmental Representative.

1.11 SITE  
INFORMATION

- .1 Results of prior soundings, and geotechnical investigations are available for inspection from the Departmental Representative.
- .2 Results of prior soundings and geotechnical investigations are made available for viewing purposes only. It should be noted that this information may differ from actual site conditions.
- .3 Take necessary steps to become fully familiar with potential inclement weather and sea conditions at each call-up site.

1.12 SURVEY  
REQUIREMENTS

- .1 Contractor to take necessary steps to make sure proper dredged grades are met.

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 of a 16.0 m horizontal reach, minimum of a 1.0 cubic meter bucket, and a minimum mass of 25 tonne.
  - .2 A hydraulic backhoe/excavator with a minimum of a 8.0 m horizontal reach, minimum of a 1.5 cubic meter bucket, and a minimum mass of 25 tonne.
  - .3 Sufficient on-highway dump trucks to truck a minimum of 8m<sup>3</sup> of material, complete with water tight boxes, to provide continuous operation as determined by the Departmental Representative. 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 dredging operations.
  - .4 Contractor should have sufficient equipment available to carry out dredging at two (2) locations simultaneously, if required.

2.1 DREDGING  
EQUIPMENT  
(Cont'd)

- .1 (Cont'd)  
.5 Contractor to prove to the department that he/she owns the above equipment or has access to the above listed equipment prior to award of the Standing Offer. The contractor is at no time to bring extra or unauthorized equipment to the dredge site without the written approval of the Departmental Representative.

PART 3 - EXECUTION

3.1 GENERAL

- .1 Mark floating equipment in accordance with the Canada Shipping Act Collision Regulations and maintain radio watch on board.
- .2 Place and maintain buoys, ranges, markers and lights required to define work and disposal areas.
- .3 Lay out Work from bench marks, ranges and base lines established by Departmental Representative. Be responsible for accuracy of Work relative to established bench marks, ranges and baseline. Provide and maintain electronic position fixing and distance measuring equipment, laser transits and such other equipment as normally required for accurate dredging control.
- .4 Establish and maintain tide boards in order that proper depth of dredging can be determined. Locate tide boards so as to be clearly visible.
- .5 Establish and maintain on-land targets for location and definition of designated dredge area limits. Targets to be suitable for control of dredging operations and locating soundings. Remove targets on completion of Work.
- .6 Dredge area and grade depth to the limits indicated on each Call-up provided by the Departmental Representative.
- .7 Dredge side slopes to limits as indicated on the Call-up provided by the Departmental Representative.

3.1 GENERAL  
(Cont'd)

- .8 Remove materials above specified grade depths, within limits indicated. Material removed from below subgrade depth or outside specified area or side slope is not part of Work and will not be measured for payment.
- .9 Remove shoaling which occurs as result of work at no expense to Departmental Representative.
- .10 Remove material cast-over on surrounding area and dispose of it as dredged material. Do not cast-over material unless authorized by Departmental Representative.
- .11 Remove infilling in dredge areas which occurs prior to acceptance by Departmental Representative.
- .12 Immediately notify Departmental Representative upon encountering objects which might be classified as an obstruction. By-pass object after clearly marking its location and continue Work.
- .13 No dredging will be permitted from the existing wharf unless it is adequately protected from equipment track damage to the satisfaction of the Departmental Representative.

3.2 DISPOSAL OF  
DREDGED MATERIAL

- .1 Dispose of dredged material by depositing in disposal areas indicated in manner approved by Departmental Representative.
- .2 Define area of disposal site with markers.

3.3 RE-DREDGING

- .1 Re-dredge unsatisfactory Work and verify depths with additional sounding or sweeping to approval of Departmental Representative.

3.4 SWEEPING

- .1 Sweep dredged areas on completion of dredging to confirm that grade depth has been achieved.

PWGSC  
MINOR DREDGING  
VARIOUS LOCATIONS, NL

DREDGING

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DECEMBER 2017

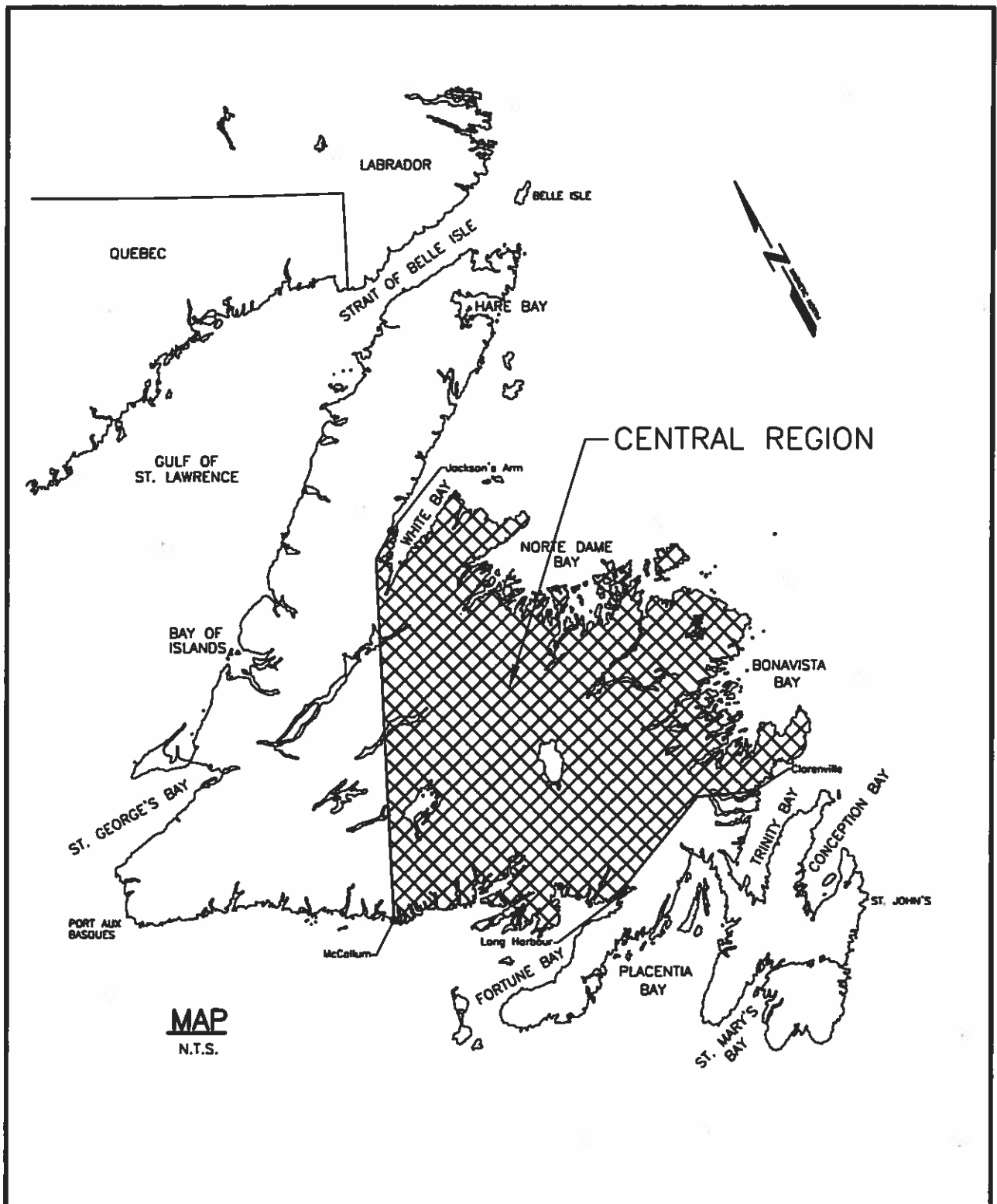
3.5 DREDGING IN  
VICINITY OF  
STRUCTURES

- .1 Do not dredge material from areas lying within  
1.5 m of existing structure unless authorized  
by Departmental Representative.

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END OF SECTION

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Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

# MINOR DREDGING CENTRAL REGION, NL

Drawing title:

Titre du dessin:

## SITE PLAN

scale:  
échelle:

date:

SEPTEMBER 2017

revisions:

designed by:  
conçu par: PWGSC

date:

drawn by:  
dessiné par: EB

approved by:  
approuvé par:

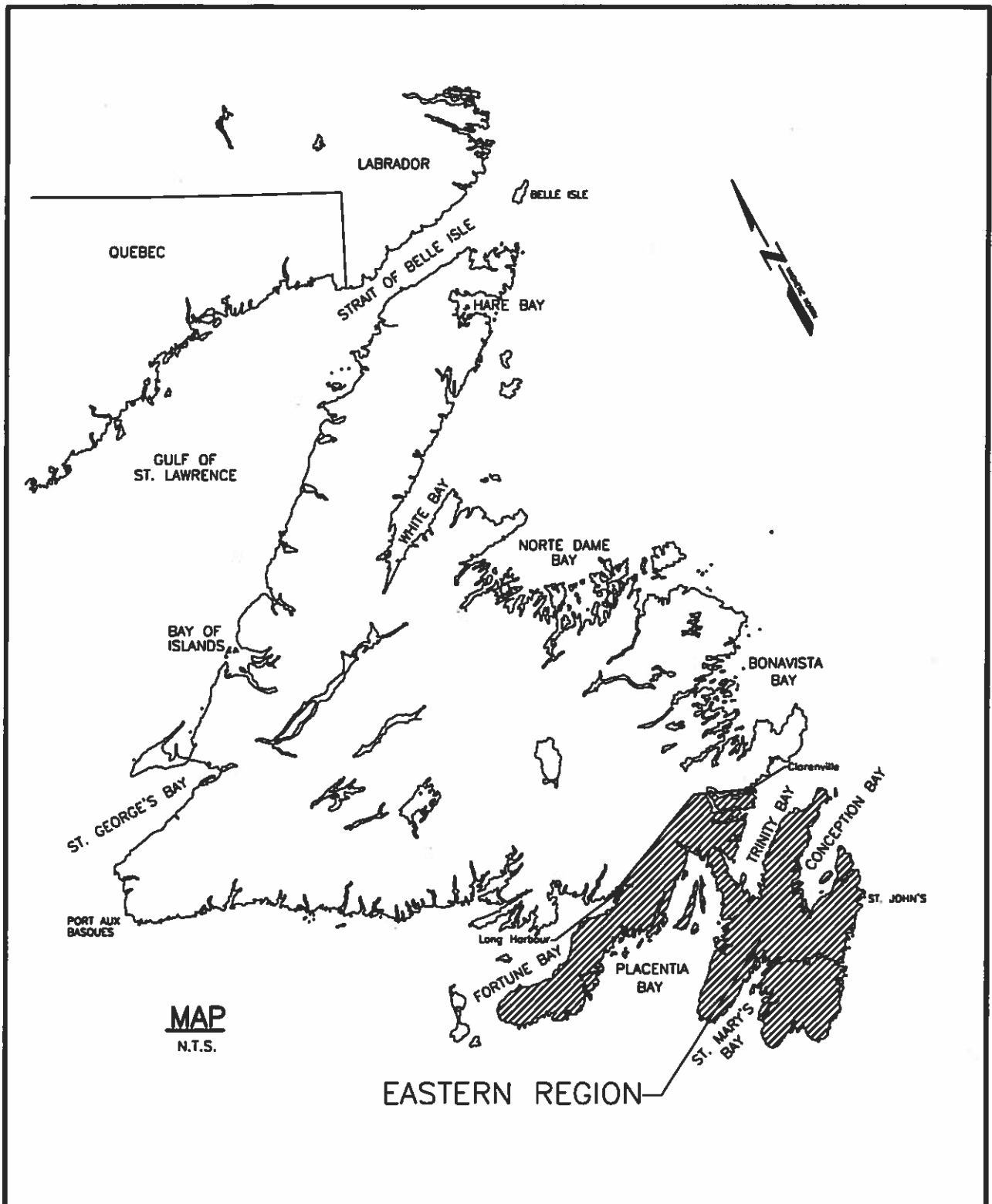
project no.: no. du projet:

dwg no.:

dessin no.:

1 OF 1

Plot Scale:



Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

designed by: PWGSC date:

drawn by: EB

approved by:

project no.: no. du projet:

dwg no.: dessin no.:

# MINOR DREDGING EASTERN REGION, NL

Drawing title:

Titre du dessin:

## SITE PLAN

scale:  
échelle:

date: SEPTEMBER 2017

revisions:

1 OF 1

Plot Scale: