

1.1 Description

- .1 Work under this Standing Offer Agreement is for carrying out land based dredging when requested for up to 32 Months which is expected to be between March 2019 and October 2021, at various public wharves in Restigouche, Gloucester , Northumberland & Kent Counties, New Brunswick.

The sites include but may not necessarily be limited to the following wharf locations:

- .1 New Mills
- .2 Miller Brook (Salmon River)
- .3 Stonehaven
- .4 Grande-Anse
- .5 Anse Bleue
- .6 Miscou
- .7 Petit-Shippagan
- .8 Ste.-Marie-St.-Raphaël
- .9 Pigeon Hill
- .10 Le Goulet
- .11 Savoie Landing
- .12 Val Comeau
- .13 Neguac
- .14 Escuminac
- .15 Pointe Sapin

See Appendix "A" for a map of north-east New Brunswick locating all the above sites.

- .2 Dredge plant: for this contract dredge plant can be a floating dredge plant or in the case for land based dredging equipment, in can be a crane and excavator.

1.2 General

- .1 Scope of work under this contract includes but shall not be limited to the provision of all labour and equipment required to perform dredging as specified herein.
- .2 The Contractor will be required to provide labour and equipment within 48 hours of notification by the Departmental Representative of a request for dredging unless delays are caused beyond the Contractor's control. Failure to comply with this request could result in calling up services from the other bidders.
- .3 The estimated quantity of material to be dredged for any individual request will usually be approximately 500-1,500 cubic metres truck measurement (CMTM). However, an
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1.2 General  
(Cont'd)

- .3 (Cont'd)  
individual request may require dredging less than or greater than this range.
- .4 The aggregate total as noted in the contract is not a guarantee that any nor the total quantity will be dredged at these locations prior to the expiration of the standing offer agreement.
- .5 The contract will terminate by giving notice to that effect or at the end of any further requirements for dredging or when the authorized contract quantities have been reached or when the Standing Offer Contract completion date has expired.
- .6 For each request, the Departmental Representative will identify the areas to be dredged on a site plan. The Departmental representative on site may also request dredging in other areas than originally shown on the plan.
- The areas to be dredged will normally require a minimum reach of 15 metres away from the face of the wharf. At Ste.-Marie-St.-Raphaël equipment must be able to dredge all the area between the structures located at the harbour channel entrance at a depth of approximately 5 metres below wharf deck elevation.
- .7 The required dredge depth will vary between sites and will range from 1.5 to 2.5 metres below chart datum (low normal tide). The usual depth will be 1.8 metres.
- .8 The disposal areas will usually be located either:
- .1 along the shore banks and/or beach where material would be pushed at sea or remained above the high water mark depending on the site.
  - .2 on land either on government or private property. These sites could include containment facilities, gravel pits, open fields and low lying areas.

The disposal sites will usually be located less than 2 kilometres and not more than 10 Kilometres from the dredge site.

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1.2 General  
(Cont'd)

- .9 The Departmental Representative may request additional work not limited to:
- .1 The construction of a temporary dredged spoils containment facility
  - .2 The supply and installation of a security fence.
  - .3 Supply of granular material
  - .4 Removal of existing wharf equipment or fishing gear.
  - .5 Supply and installation of floating silt curtain.
  - .6 Fine grading/seeding

The cost of doing the additional work will be negotiated and approved before work begins on the item.

1.3 Quantities

- .1 The quantities shown on a specific request or call-up are approximate maximum amounts and may not be increased without the written permission of the Departmental Representative. No payment will be made for additional quantities unless the Departmental Representative has given his permission in writing.

1.4 Permits,  
Certificates  
and Fees

- .1 Departmental Representative is responsible to obtain the CEPA permit, License to Occupy, Quarry permit, and provide Notices to Mariners for the commencement and completion of each dredging operation.
- .2 The Contractor shall also give all notices, obtain and pay all fees and permits concerning the projects, except those noted above. No dredging or dumping is to be carried out until all permits are in place. Furnish certificates and permits when requested.

1.5 Inspection  
of Sites

- .1 Before submitting his tender, it is recommended that the Contractor visit all of the sites in order to familiarize himself with existing conditions and to examine all other details which could affect the cost of the work. Ignorance of local conditions shall not at any time constitute a valid reason for claiming extra costs.
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- 1.6 Datum .1 All elevations shown on plans submitted at the time of the call-up, or mentioned in the specifications are expressed in "Metres" and are referred to chart datum or Low Normal Tide (L.N.T.) which is taken as elevation 0.0 metre.
- 1.7 Project Meetings .1 Departmental Representative will arrange project meetings and assume responsibility for setting times and recording and distributing minutes.
- 1.8 Additional Drawings .1 Departmental Representative may furnish additional drawings to assist proper execution of work. These drawings will be issued for clarification only. Such drawings shall have the same meaning and intent as if they were included with plans referred to with the call-up.
- 1.9 Protection of Existing Services and Facilities .1 It will be the responsibility of the Contractor to become fully acquainted with the existing services and facilities and take necessary steps to protect them during the work.
- .2 The Contractor will bear the cost of making good all damages to existing structures and facilities at the site resulting from his operations under this standing offer. All repairs will be with new materials approved by Departmental representative.
- .3 The Contractor will immediately restore any existing service disrupted as a result of his operations at no cost to the Departmental Representative.
- .4 The maximum speed limit on public wharves to be 8 km/h. The allowable loading on wharf Facilities structures at most sites is a uniformly distributed load of 965 kg/m<sup>2</sup> or an axle loading of 10 tonnes. The Contractor shall be responsible to take all necessary precautions to prevent overloading of all wharf structures. The Departmental representative will monitor wharf structures
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- 1.9 Protection of Existing Services and Facilities  
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and be the sole judge of the extent of any damage.  
.5 The Contractor will advise the Departmental Representative in cases where there is a possibility that a wharf structure may be overloaded by the equipment that the Contractor proposes to use.
- 1.10 Disposal at Sea  
Sea .1 Contractor is to adhere to the restrictions set by the Canadian Environmental Protection Act (CEPA) permits (which may pertain to certain sites) and other regulatory bodies, and is to adhere to measures determined to be mitigative to satisfy the Canadian Environment Assessment Act. Restrictions applicable will be identified at the time of the request.  
.2 The CEPA disposal permits have been obtained or are in the process of being obtained for some of the disposal sites. The ocean disposal sites are suited to accommodate land based equipment where disposal would be along the beaches.  
.3 A copy of the CEPA permits shall be posted on the dredge plant at all times during all dredging operations.
- 1.11 Disposal on Land  
Land .1 The Contractor is responsible for locating and obtaining all permits and approvals for the dredge spoils disposal sites other than pre-approved disposal site which would be identified or provided by the Departmental Representative at the time of the call-up.  
.2 Disposal sites must conform with Environmental requirements outlined in Section 01 35 44.  
.3 The following requirements apply for land based disposal sites other than pre-approved sites:  
.1 Make application and obtain approval from the Department of Environment Environment Protection P.O. Box 6000 Fredericton, N.B. E3B 5H1
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1.11 Disposal on Land  
(Cont'd)

- .3 (Cont'd)
- .2 A written permission and waiver from property owner(s) of the Contractor's proposed dump site(s) is required.
- .3 A copy of the approved permits, the written permission and waiver from property owners, and proof of property ownership must be provided to the Departmental representative prior to the start of work.
- .4 The Departmental Representative must also approve the disposal site(s).

1.12 Access to Dredging and Disposal Sites

- .1 Where required the Contractor is responsible to obtain all the site information and approval of the private land owners for the use of their property for the right-of-way to access dredging areas or disposal sites.
- .2 The Contractor, if requested by the Departmental Representative, is required to provide written confirmation from the property owner(s) confirming authorization for the use of the right-of-way or any access routes given permission to cross private properties.
- .3 The Contractor, if requested by the Departmental representative, must provide a written list of requirements, including fees and restrictions for the use of the property.
- .4 The property owners requirements and restrictions must be complied with. Failure to comply with the directions of the land owners will be reviewed by the Project Departmental representative.
- Fees for the use private property must be paid in full to the land owners before making a request for final contract payment. Failure to meet the land owners requirements may result in delay of contract payment or lost of dredging opportunity.

1.13 Harbour Authority

- .1 Contractor to contact the Wharf Managers or representatives of the Harbour Authorities prior to begin work. A current list of the wharf managers for each location is available at the office of the Departmental Representative.

1.14 Taxes

- .1 Pay applicable Federal, Provincial and Municipal taxes. Refer to the "Notice to Tenderers" regarding the Goods and Services tax.

1.15 Documents  
Required

- .1 Maintain at job site, one copy each of the following:
  - .1 Contract Drawings
  - .2 Specifications
  - .3 Addenda
  - .4 Other modifications to Contract
  - .5 Permits and approvals
  - .6 Copy of Health and Safety Plan
  - .7 Copy of New Brunswick Occupational Health and Safety Act.

1.16 Contractor's  
Use of Site

- .1 The Contractor's use of site is limited to the locations of the dredging operations and as specified herein.
  - .2 Access to work site is to be provided over existing wharf approach.
  - .3 The Contractor is to note that access being provided over existing structures is to be used by other wharf users. As a result, the Contractor is to co-operate with the Departmental representative and schedule his use of this access to permit usage by other wharf users. The Contractor should also note that access may be limited to one lane of traffic to the location of work depending on wharf activity.
  - .4 The Contractor will not be responsible to move and replace lobster traps, electrical wires, power lines, derricks, poles, sheds, fuel lines, pumps or any obstacles which may hinder the work progress. A price will be negotiated with the Departmental Representative.
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- 1.17 Co-operation and Assistance to Departmental representative
- .1 Co-operate with Departmental Representative on inspection work and provide any assistance requested.
- .2 On request of Departmental Representative, furnish use of such boats, equipment, labour and materials forming ordinary and usual part of dredging as may be reasonably necessary to inspect the work. The Contractor will provide an approved duty boat under this contract. The boat will be on duty at all times throughout the duration of the contract (i.e when call-up is made). It will also be available for the use of the Departmental representative or his Representative when required.

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 Make submittals in accordance with Section 01 33 00.
  - .2 Submit site-specific Health and Safety Plan prior to commencement of Work.
    - .1 Submit within five 5 work days of notification of Bid Acceptance. Provide 2 copies.
    - .2 Departmental Representative will review Health and Safety Plan and provide comments.
    - .3 Revise the Plan as appropriate and resubmit within 5 work days after receipt of comments.
    - .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.
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1.2 SUBMITTALS  
(Cont'd)

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- .2 (Cont'd)
  - .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

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- .1 Comply with Occupational Health and Safety Act for Province of New Brunswick, and General 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/ene.html](http://laws.justice.gc.ca/eng/SOR-86-304/ene.html)
    - .3 A copy may be obtained at: Canadian Government Publishing Public Works & Government Services Canada Ottawa, Ontario, K1A 0S9 Tel: (819) 956-4800 (1-800-635-7943) 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.
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1.3 COMPLIANCE  
REQUIREMENTS  
(Cont'd)

- .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 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. [See
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1.5 SITE CONTROL  
AND ACCESS  
(Cont'd)

- .2 (Cont'd)
  - .1 (Cont'd)  
Section [01 50 00] for minimum acceptable requirements].
  - .2 Post signage at entry points and other strategic locations indicating restricted access and conditions for access.
  - .3 Use professionally made signs with bilingual message in the 2 official languages or international known graphic symbols.
- .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
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- 1.8 PERMITS  
(Cont'd)
- .2 (Cont'd)  
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:
- .2 .1 Existing hazardous and controlled products stored on site:  
.1 none identified  
.2 Existing hazardous substances or contaminated materials:  
.1 none identified  
.3 Known latent site and environmental conditions:  
.1 Working near and over water.  
.2 Cold weather and exposure.  
.3 Public access to the site.  
.4 Heavy Equipment.  
.5 Working with lights.  
.6 Load losses Roll overs.  
.4 Facility on-going operations:  
.1 none identified
- .3 Above items shall not be construed as being complete and inclusive of potential health and safety hazards encountered during Work.
- .4 Include above items in the hazard assessment of the Work.
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1.10 PROJECT/SITE .5  
CONDITIONS  
(Cont'd)

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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, 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.
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1.12 HEALTH AND  
SAFETY PLAN  
(Cont'd)

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- .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.
    - .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.
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1.12 HEALTH AND  
SAFETY PLAN  
(Cont'd)

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- .8 Post copy of the Plan, and updates,  
prominently on Work Site.

1.13 SAFETY  
SUPERVISION

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- .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 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.

1.14 TRAINING

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- .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.
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- 1.14 TRAINING  
(Cont'd)
- .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 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.
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- 1.17 INCIDENT REPORTING .1 Investigate and report the following incidents to Departmental Representative:  
.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.
- 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.
- 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.
- 1.22 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.
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1 REFERENCES

- .1 WHMIS: Workplace Hazardous Materials Information System, Health Canada.
- .2 Transportation of Dangerous Goods Act. Transport Canada, updated 2008-02-21.
- .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.
- .5 Canadian Coast Guard Regulations, Department of Fisheries and Oceans Canada.
- .6 Canadian Shipping Act, Transport Canada, 2001.
- .7 AWWPA: American Wood Preserver Association

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
  - .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,
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2 DEFINITIONS  
(Cont'd)

- .5 Buffer zone: (Cont'd)  
such as streams, rivers, lakes, ponds, oceans,  
and wetlands, including the floodplain and the  
transitional lands between the watercourse and  
the drier upland areas.

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].

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.
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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.
- .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.

6 DISPOSAL OF  
WASTES

- .1 Do not bury rubbish, demolition debris and waste materials on site.
  - .2 Dispose and recycle demolition debris and waste materials to Waste Facility.
  - .3 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.
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6 DISPOSAL OF  
WASTES  
(Cont'd)

- .4 Dispose of hazardous waste in accordance with applicable federal and provincial laws, regulations, codes and guidelines.
- .5 Concrete waste:
  - .1 Do not discharge residual or rejected concrete on site.
  - .2 Immediately clean any accidental release of concrete on site prior to solidification.
  - .3 Do not wash and clean concrete vehicles on site.
  - .4 Perform dumping of residual material and truck cleaning operations only at the concrete plant. Follow environmental regulations and good practices as approved by the Provincial Department of the Environment and other authorities having jurisdiction.

7 WATER QUALITY

- .1 Conduct 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 excavation equipment. Make adjustments as required and as approved by Departmental Representative.
    - .2 Strategically position excavator equipment and haul vehicles to avoid over the water swings of excavated material whenever possible.
  - .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.
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7 WATER QUALITY  
(Cont'd)

- .4 Water quality during suction dredging:
  - .1 Minimize out-fall of the dredge material at the disposal site by placing the pipeline outfall 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 creosote, petroleum and pentachlorophenol for any part of the Work.
- .6 Do not washdown equipment within a 30 metre buffer zone of a wetland, watercourse or other identified environmentally sensitive area.

8 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.
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9 BIRD 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 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.

10 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
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10 FISH AND  
FISH HABITAT  
(Cont'd)

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- .2 (Cont'd)
    - .1 (Cont'd)  
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.
    - .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.
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10 FISH AND  
FISH HABITAT  
(Cont'd)

- .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.

11 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.

12 FIRES

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