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| <u>1 General</u> | <p>.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 and ocean disposal of dredged materials as specified herein at Tabusintac Gully, Channel No.4, Inside and Outside sections.</p> <p>.2 The materials excavated and tested from test pits in channel are representative of the materials to be excavated.</p> |
| <u>2 Permits
Certificates
and Fees</u> | <p>.1 Departmental Representative is responsible to obtain the CEPA (ocean dumping) permit, Quarry permit, and provide Notices to Mariners for the commencement of dredging operation.</p> |
| <u>3 Inspection
of Sites</u> | <p>.1 Before submitting his tender, the Contractor will 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.</p> |
| <u>4 Work Schedule</u> | <p>.1 Immediately upon award of contract, the Contractor will submit a schedule of work to the Departmental Representative, showing anticipated progress stages and final completion of work within time required by contract documents. All entries contained in unit price table will be entered on schedule using a horizontal bar graph method.</p> <p>.1 The Tabusintac River Channel and Gulf of St. Lawrence is expected to be navigable (ice out) by April 15, 2015.</p> <p>.2 A channel, 15 m wide, 1.5 m deep on the exterior section, and a 15m wide channel, 1.0 m deep on interior section is to be completed by April 30, 2014, expected date of 2015 lobster trap set.</p> <p>.3 The remainder of the dredging will be completed during fishing season and within time provided by Contract, without impediment to the fishing vessels.</p> |
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| 4 <u>Work Schedule</u>
(Cont'd) | .1 | (Cont'd)
.4 Construction period of five (5) weeks begins when the ice has departed from the work site. |
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| 5 <u>Datum</u> | .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. |
| | | |
| 6 <u>Project Meetings</u> | .1 | Departmental Representative will arrange project meetings and assume responsibility for setting times and recording and distributing minutes. |
| | | |
| 7 <u>Additional Drawings</u> | .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. |
| | .2 | New bathymetry will be collected in April as soon as the survey vessel can navigate the channel and work areas. The new data will replace that which is shown on the Contract plans. |
| | | |
| 8 <u>Protection of Services and Facilities</u> | .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. |
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| 8 <u>Protection of
Services and
Facilities
(Cont'd)</u> | .3 | The Contractor will immediately restore any existing service disrupted as a result of his operations at no cost to the Departmental Representative. |
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| 9 <u>Harbour
Authority</u> | .1 | Contractor to contact the Wharf Manager or representatives of the Harbour Authority prior to begin work. |
| | | |
| | .2 | Contact Harbour Authority in advance of mobilization and negotiate berthage fees and access at facility.
.1 Eric Benoit (506) 779-4660 or 506 779 6845 |
| | | |
| 10 <u>Taxes</u> | .1 | Pay applicable Federal, Provincial and Municipal taxes. Refer to the "Notice to Tenderers" regarding the Goods and Services tax. |
| | | |
| 11 <u>Documents
Required</u> | .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 Environmental Protection Plan
.7 A copy of the construction safety plan.
.8 Copy of New Brunswick Occupational Health and Safety Act. |
| | | |
| 12 <u>Contractor's
Use of Site</u> | .1 | The Contractor's use of site is limited to the locations of the dredging operations and as specified herein. |
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Dredging
Channel No. 4
Tabusintac Gully
New Brunswick
R.073475.001

Summary of Work

Section 01 11 00
Page 4

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13 Cleaning

- .1 Before work can be accepted, the Contractor must clean up the site and leave it in a condition which is acceptable to the Departmental Representative.

1.1 DEFINITIONS

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

1.2 SUBMITTALS

- .1 Submit 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.
 - .5 Submit revisions and updates made to the Plan during the course of Work.

1.2 SUBMITTALS
(Cont'd)

- .2 Submit name of designated Health & Safety Site Representative and support documentation specified in the Safety Plan.
- .3 Submit building permit, compliance certificates and other permits obtained.
- .4 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.
- .5 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .6 Submit copies of incident reports.
- .7 Submit WHMIS MSDS - Material Safety Data Sheets.

1.3 COMPLIANCE
REQUIREMENTS

- .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: <http://laws-lois.justice.gc.ca/eng/acts/L-2/>
 - .2 COSH can be viewed at: <http://laws-lois.justice.gc.ca/eng/regulation/SOR-86-304/index.html>
 - .3 A copy may be obtained at: Canadian Government Publishing, Public Works & Government Services Canada Ottawa, Ontario, K1A 0S9 Tel: (613) 941-5995 (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.

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1.3 COMPLIANCE
REQUIREMENTS
(Cont'd)

- .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.
 - .2 Post signage at entry points and other strategic locations indicating restricted access and conditions for access.

1.5 SITE CONTROL
AND ACCESS
(Cont'd)

- .2 (Cont'd)
- .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.

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.
- .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:
- .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.
- .5 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.
- .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

1.12 HEALTH AND
SAFETY PLAN
(Cont'd)

- .3 (Cont'd)
 - .2 Evacuation Plan:(Cont'd)
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.
 - .8 Post copy of the Plan, and updates,
prominently on Work Site.
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1.13 SAFETY
SUPERVISION

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

- .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.
- .3 When unforeseen or peculiar safety-related hazard, or condition occur during performance

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| <u>1.14 TRAINING
(Cont'd)</u> | .3 | (Cont'd)
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. |
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| <u>1.15 MINIMUM
SITE SAFETY RULES</u> | .1 | Not withstanding 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. |
|
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| <u>1.16 CORRECTION OF
NON-COMPLIANCE</u> | .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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| <u>1.17 INCIDENT
REPORTING</u> | .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. |
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- 1.17 INCIDENT REPORTING
(Cont'd)
- .1 (Cont'd)
.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.
- .2 Upon request, make available to Departmental
Representative or authorized Safety Officer
for inspection.
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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 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 AWWA: 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.

2 DEFINITIONS
(Cont'd)

- .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.

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,

6 DISPOSAL OF
WASTES
(Cont'd)

- .3 (Cont'd)
thinners etc...) and petroleum products into
waterways, storm or sanitary sewers or in
waste landfill sites.
- .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.

7 WATER QUALITY
(Cont'd)

- .3 (Cont'd)
 - .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 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 AWWA 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.

8 SOCIOECONOMIC
RESTRICTIONS
(Cont'd)

- .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.

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

10 FISH AND
FISH HABITAT
(Cont'd)

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

- .6 Record of Assurance Logbook:(Cont'd)
 - .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.

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.