

OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS

The Contractor must:

- Comply at all times with the provisions of the following acts, regulations and standards:
 - *Quebec Act respecting occupational health and safety*;
 - *Quebec Safety Code for the Construction Industry*;
 - *Quebec Regulation respecting occupational health and safety (new Division XXVI.1, Underwater Work)*;
 - Standard CAN/CSA-Z275.2-92 Occupational Safety Code for Diving Operations; and
 - Standard CAN/CSA-Z275.4-97 Competency Standard for Diving Operations.

In the event of a conflict between the requirements of these documents, the most stringent shall apply.

- Regardless of the number of workers assigned to the work, a work safety plan (prevention program) must be submitted to Infrastructure Canada (INFC) listing the activities to be carried out under the contract, and the hazards and the preventive measures that you will undertake to apply to address those hazards, in compliance with the applicable regulations. The Contractor must include the list of safety equipment on board the vessels, the procedures to be followed during sampling, the emergency procedures (e.g., diving accident, drowning), etc.
- Ensure that your workers, including divers, if applicable, and support personnel, have received the necessary training and information to perform the work safely.
- Provide a copy of the certification of each diver and his/her first aid/CPR training certificate to the INFC Project Authority, if applicable.
- Ensure that all necessary tools and protective equipment are available, are in compliance with the standards, acts and regulations, are inspected and are used properly. Proof of certification and inspection of this equipment must also be available on request.
- Inform your workers that they have the right to refuse any work that endangers their health or safety.
- In the event of an unexpected incident, take all necessary measures, including work stoppage, to protect the health and safety of workers and the public (and immediately contact INFC).

SPECIAL CONDITIONS FOR WORK THAT ENTAILS DROWNING HAZARDS

In addition to the above requirements, the following requirements must be met for all work that entails drowning hazards:

- Comply with section 2.10.13 of the Quebec *Safety Code for the Construction Industry*.
- (a) Wear a lifejacket or personal flotation device that keeps the wearer's head above water and allows the wearer to float without having to use the arms, and that:
 - Complies with Canadian General Standards Board standard CAN/CGSB-65.7-M88 *Lifejackets, Inherently Buoyant Type*, published in 1988; or
 - With some exceptions, is approved by Transport Canada.
- (b) or be protected by a safety net or fall protection device.
- Obtain and send to the INFC Project Authority a letter of compliance issued by Transport Canada for approval of all vessels (transport, rescue, inspection or other) prior to the start of the work (reference: Transport Canada Marine Safety – 1-888-649-6292).
- Ensure (if necessary) that a rescue boat moored in the water is available for every work area. However, where the vessel is accessible by land, it may serve two or more work areas, provided the distance between any work area and the vessel is less than 100 m.
- Ensure that the boat has a motor with sufficient power to travel against the current.
- Ensure that the vessel has the necessary features to accommodate persons likely to take part in the rescue operation.
- Ensure that the rescue boat is available to workers at all times in the event of an emergency.
- Ensure that a qualified person is available to operate the emergency equipment. That person must have a pleasure craft operator card for the length of vessel being used.
- Establish written emergency procedures containing the following information and ensure that all workers subject to those procedures have received the training and information needed to apply them:
 - A full description of the procedures, including the responsibilities of the persons authorized to access the work area;
 - The location of the emergency equipment.
- When the work area is a dock, basin, jetty, wharf or any other similar structure, install a ladder with at least two rungs below the surface of the water on the front of the structure every 60 m. This measure applies even if the project is a construction project. In that situation, a temporary (or portable) ladder may be used and removed when the work is finished if the owner has not installed the required equipment. However, the owner must be notified in writing that the site is not in compliance with the *Canada Labour Code*, Part II.

OHS CLAUSE RELATING SPECIFICALLY TO UNDERWATER WORK

By accepting this contract, the Contractor undertakes to comply with the following requirements if diving work is performed:

- In order to comply with INFC OHS requirements, all dive teams must consist of at least four persons.
- Compliance with all the requirements of the Quebec *Regulation respecting occupational health and safety* (S-2.1, r. 13), more specifically Division XXVI.1, entitled *Underwater Work*. Compliance as well with the latest editions of standards CSA Z275.2 – *Occupational Safety Code for Diving Operations*, CSA Z275.1 – *Hyperbaric Chambers* and CSA Z275.4 – *Competency Standard for Diving Operations*. In the event of conflict between these requirements, the most stringent requirement shall apply.
- In addition to the above paragraph, in cases where construction work is involved, compliance with the Quebec *Safety Code for the Construction Industry* (S-2.1, r. 6).
- Before starting the work, submit to the INFC Project Authority the following documents, as per the *Regulation respecting occupational health and safety*:
 - the professional diving training certificate of each member of the dive team or a document recognizing the skills of those persons in accordance with the *Competency Standard for Diving Operations*, CAN/CSA Z275.4-02, as per section 312.8 of the Regulation;
 - the workplace first-aid training certificate of each member of the dive team;
 - the medical certificate of each member of the dive team;
 - for each dive included in this contract, a dive plan containing the following information, in addition to the information required under the *Regulation respecting occupational health and safety*:
 - the thermal protection to be used;
 - the repetitive dive factor;
 - the no-decompression limit;
 - the circumstances in which the dive must be terminated;
 - the procedures to be followed to ensure that machinery, equipment or devices that could create a hazard have been locked out; and
 - the decompression table to be used, as required;
 - notification confirming that a system for communicating with emergency medical services for diving emergencies is available at the diving station at all times.
- The Contractor must take into account the following specific characteristics of the worksite, and adapt its dive plan accordingly:
 - Where the dive takes place at one of the following locations, provide to the INFC Project Authority confirmation that the authorities concerned have been notified:
 - upstream or downstream from a hydraulic structure or submerged pipe;
 - in navigable waterways; and

- in port facilities.
- If the diving station is more than 2 metres above the water, provide to the INFC Project Authority:
 - a drawing of the equipment used to lower the worker into the water if a device other than a stage is used for that purpose; and
 - a drawing of the device used to hoist the stage or other device, unless that device is a crane or boom truck.
- If the dive is carried out from a vessel, provide to the INFC Project Authority the following documents:
 - proof of qualification of the vessel operator; and
 - the vessel's certificate of compliance from Transport Canada.
- Before starting the work, carry out an underwater rescue simulation at the site, as required under section 312.31 of the *Regulation respecting occupational health and safety*.
- On a daily basis, complete and provide to the INFC Project Authority a checklist confirming the presence and condition of the equipment required at the dive site as per the dive plan.
- Ensure that all other documents required under Division XXVI of the *Regulation respecting occupational health and safety* are available at the site at all times (diving logbook, diver's logbook, etc.).
- All persons assigned to this contract and who remain above water shall comply with sections 355 to 357 of the *Regulation respecting occupational health and safety*.
- Where an emergency vessel is required in order to comply with section 357 of the *Regulation respecting occupational health and safety*, obtain the vessel's certificate of compliance issued by Transport Canada and provide it to the INFC Project Authority.