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Dear Mr. MacCarl,

Hamlet of Gjoa Haven, NU, Swan Lake River Bridge Construction, Additional Information on Spill Contingency Plan

On behalf of Hamlet of Gjoa Haven, NU we provide Additional Information on the above specified Project as requested in your memo dated September 11, 2015:

Spill Contingency Plan during construction and operation, including proposed mitigation measures during the transfer of fuel to equipment (e.g., use of drip pans and spill pads)

• Spill during Construction

As specified in our previous submission, excavator, loader and two dump trucks will be working on site for duration of about 15 productive working days. None of this equipment will be deployed in the water for work. However, the equipment will cross several times the river for work on the south abutment.

Spill prevention and spill control measures in place on the construction site will include:

- No fuel and or lubricants will be stored on site.
- No oil changes will be carried out on site.
- Re-fueling of the equipment will be done at a distance of more than 100' from the river using specialised Fuel Truck equipped with automatic shut-off Fueling Hose.
- No Gerry cans or other containers will be used for direct transfer of fuel.
- All equipment will be thoroughly inspected for leaks of oils and lubricants on a daily basis by the Engineer on site. Equipment will be allowed to proceed with Work after repair of all deficiencies and successful re-inspection.
- Only experienced equipment operators will be employed for the work.
- In a daily briefs the construction crew will be instructed on details of the daily work. Work safety, spill prevention and spill control issues will be also discussed.
- The Contractor will have readily available on-site fuel absorbing pads, large drip pans, fire extinguishers, buckets, picks and shovels to be used in case of spill.

In spite of all preventive measures a minimal risk of spill into, or near the river during construction still exists. Such spill could be caused due to malfunctioning of the fuel transferring equipment, or unexpected failure in the fuel system of an individual construction equipment. The maximum amount of spilled fuel would be limited to the volume of the equipment's fuel tank.

In case of fuel spill, the Equipment Owner, as Responsible Organisation, will immediately undertake the following actions:

- Safety for the working personnel will be established
- Injured people will be transported to the local Nursing Station
- Fire, if any, will be extinguished
- Attempt to stop and contain the leak will be made using absorbing pads, pans, picks and shovels. Heavy equipment available on site may be also be used to build a containing dyke if needed.
- Hamlet Office will be notified on details of any spill related accidents.



- Hamlet Office will report the spill to the NWT/NU Spill Line (867-920-8130) and forward a completed Spill Report Form obtained from the Government of Canada web site named Guidelines for Spill Contingency Planning

After containment of the spill the Hamlet will organise removal from the site of any contaminated soil and dispose of it in a designated area. In case of significant spill the Hamlet may decide to retain an expert consultant to assess the accident and provide appropriate advice.

Emergency Response Plan for bridge/road use.

We confirm again that the Project does not include road construction or road upgrading component.

The bridge deck is 4.2 m wide and can accommodate only single lane traffic. Types of accidents that may occur on the bridge include:

- Collision of two oncoming vehicles
- Collision of vehicle with pedestrian
- Single vehicle accident with damage on the guard rail
- Single vehicle accident with vehicle damaging the guard rail and falling into the river

Responsible organisations for dealing with accidents on the bridge are the Hamlet Office and the RCMP. The Hamlet Office will assign and instruct a person to deal with potential accidents on the bridge.

Both the Hamlet and the RCMP would rely mainly on notification for accidents provided by the travelling public and on shared communication. The Emergency Response will include, as deemed appropriate some or all of the below listed measures:

- In case of any serious accident, both the Hamlet and the RCMP would send representative on site.
- In case of accident involving personal injury the Hamlet would send a vehicle on site to transport the injured person to the Nursing Station.
- In case of serious damage of a vehicle the Hamlet would send road maintenance equipment to remove the vehicle and take it to town.
- In case of fuel spill and/or fire caused by vehicle accident, the Hamlet would mobilise its Volunteer Fire Crew to deal with the matter. Potential fuel spills will be dealt with as indicated in the Fuel Spill Contingency Plan.
- In case of serious damage on the bridge deck, rail or structure the Hamlet might decide to close the bridge for traffic and retain a qualified engineer to assess the damage and recommend appropriate action.

Method to be used for bridge users to report any spills and/or damage or deterioration of the bridge to the Hamlet

Deteriorations of the Bridge will be recorded and reported to Hamlet with the proposed seasonal inspections conducted by the Hamlet Foreman.

The Hamlet would rely on local travelers to report traffic accidents and spills in the Bridge area. Local travellers will be periodically remained on the local radio to report to Hamlet any such occurrences.

Prepared by:

A handwritten signature in black ink, appearing to read "Jivko Jivkov".

Jivko Jivkov, P. Eng.

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