



## HAZARD ASSESSMENT

<b>Date:</b> October 30, 2003		<b>Location:</b> Afton, NS		<b>Harbour Authority:</b> Bayfield	
HAZARD ASSESSMENT SUMMARY					
Identified Hazard	Priority	Required Action	Completed By	Date	
Struck by vessels		<ul style="list-style-type: none"> <li>• Post “No Swimming” signs on wharves</li> </ul>			
Slips/Trips/Falls		<ul style="list-style-type: none"> <li>• Keep all ropes and electrical cords close to wheelguard, do not allow them to run across the wharf.</li> <li>• Keep objects (ropes, pallets, hoses) in designated areas or off the wharf when not in use.</li> <li>• Replace or barricade cracked, uneven, deteriorating wharf decks</li> <li>• Ensure that there is adequate lighting for operational facilities</li> <li>• Develop an inspection program for all facilities</li> </ul>			
Falling from Wharf/Risk of Drowning/Strike against Objects		<ul style="list-style-type: none"> <li>• Maintain wheelguard in good condition</li> <li>• Replace missing and deteriorating wheelguard</li> <li>• Mount life rings on wharves and floating docks</li> <li>• Indicate safe zone (yellow lines on deck to indicate 6.0” zone)</li> <li>• Ensure ladders are installed in accordance with the CLC-Part 11 standards and are maintained and clear of all obstructions at all times.</li> </ul>			
<b><u>Hoist Operation</u></b> Falling from Wharf/Risk of Drowning/Strike Against Objects/Damage to Boats/ Personal Injury/Being Caught In		<ul style="list-style-type: none"> <li>• Adhere to the safe load limit posted on the hoist</li> <li>• Develop inspection program for controls, cables, hooks, guards, clearance, etc</li> <li>• Only qualified personnel operate and inspect the hoist</li> <li>• Post sign at hoist indicating “Qualified Personnel Only”</li> <li>• Install guardrails around hoist to prevent persons from falling in water when operating the hoist</li> </ul>			



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		<ul style="list-style-type: none"> <li>• Never operate the hoist in heavy wind or rain, or other hazardous weather conditions.</li> <li>• Never hoist over people.</li> <li>• Never leave a load suspended</li> <li>• Cover all operating/moving parts with guards</li> <li>• Develop lockout/tagout procedure for defective hoists</li> <li>• Develop a safe work practice for “Hoist Operation”</li> </ul>		
Fire & Explosion		<ul style="list-style-type: none"> <li>• Post emergency contact numbers in a highly visible area</li> <li>• Build a barrier around the fuel station/pump to prevent it from being struck by a motor vehicle.</li> <li>• Post “No Smoking/No Welding/No Burning/No Cutting” signs at fuel tanks and pumping station</li> <li>• When lobster traps and any other equipment are being stored on the wharf, leave pedestrian access to the seaward face of the wharf, and along the wheelguard to accommodate fire fighting personnel and equipment</li> <li>• Post the appropriate type and number fire extinguishers at fueling stations</li> <li>• Develop an inspection program to ensure all fire extinguishers and other fire protection equipment is available and in good condition.</li> </ul>		
<b><u>Forklift Operation</u></b> Struck By/Dropping a Load/Personal Injury/ Property Damage		<ul style="list-style-type: none"> <li>• Mark all forklift roadways</li> <li>• Install backup alarms on all forklifts</li> <li>• Inform buyers and service personnel of “Forklift Area”</li> <li>• Keep forklift roadways well lit and free from obstruction</li> <li>• Ensure proper training for forklift operator</li> <li>• Inspect forklifts regularly</li> <li>• Develop lockout/tagout procedure for defective forklifts</li> <li>• Develop safe work practice for ‘Forklift Operation’</li> </ul>		



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<p><b><u>Fueling</u></b> Fuel Spill/Pollution to Ground and Water</p>		<ul style="list-style-type: none"> <li>• Ensure all petroleum storage tanks have secondary containment</li> <li>• Post Environmental emergency contact number</li> <li>• Post “No Smoking/Welding/Cutting/Burning signs at fueling station and pumps. Designate areas for these tasks.</li> <li>• Ensure the appropriate size and type of fire extinguisher is located at the fueling station. Ensure it is easily accessible, inspected regularly, and maintain in operating condition.</li> <li>• Provide a Spill Kit (boom, absorbent pads, gloves, etc)</li> <li>• Keep fueling stations clear of combustible materials</li> <li>• Train Harbour Authority personnel on the proper use of boom to contain the fuel.</li> <li>• Ensure an emergency stop button is in place</li> <li>• Provide adequate lighting at fueling stations</li> <li>• Develop an inspection program for the fuel tanks</li> <li>• Review Environmental Management Plan</li> </ul>		
<p><b><u>Severe Weather Conditions</u></b> (Wind, Rain, Ice, Snow) Damage to Boats, Wharf, Property/Personal Injury/ Risk of Drowning</p>		<ul style="list-style-type: none"> <li>• Close the wharf from public use</li> <li>• Create a policy for not working alone under these conditions</li> <li>• PFDs are required when working on the wharf under these conditions</li> </ul>		
<p>Property Damage/ Personal Injury</p>		<ul style="list-style-type: none"> <li>• Signage to indicate “No Admittance” or “Authorized Personnel Only” in areas where public is prohibited</li> </ul>		
<p>Stuck by Moving Motor Vehicles</p>		<ul style="list-style-type: none"> <li>• Post speed limits on all roadways leading to wharf</li> </ul>		
<p><b><u>Welding/Cutting/Burning</u></b> Damage to eyes/Electrical Shock/Burns/ Fire &amp; Explosion/Fumes &amp; Gases</p>		<ul style="list-style-type: none"> <li>• Ensure welders wear appropriate PPE</li> <li>• Develop and follow safe work practice for “Welding, Cutting and Burning”</li> <li>• Ensure an appropriate fire extinguisher easily accessible</li> <li>• Designate specific areas for these tasks</li> </ul>		



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<p><b><u>Transferring of Waste Oil</u></b> Fire/Spills</p>		<ul style="list-style-type: none"> <li>• Develop proper procedures for transferring waste oil</li> <li>• Keep an MSDS for petroleum products onsite</li> <li>• Ensure contractors removing the waste oil have the appropriate training (Transportation of Dangerous Goods)</li> <li>• Conduct inspections of the contractors to ensure proper procedures are being adhered to.</li> <li>• Post appropriate signage including “No Ignition Sources” at the waste oil tank</li> <li>• Keep all combustible materials a safe distance away from waste oil tank</li> </ul>		
<p><b><u>Use of the Slipway</u></b> Damage to Boats/Personal Injury</p>		<ul style="list-style-type: none"> <li>• Keep slipway free from obstructions</li> <li>• Repair deteriorating surfaces on slipways</li> <li>• Ensure there are no protrusions on slipway</li> <li>• Identify and mark slipways intended for “Public Use” and those for “Authorized Personnel Only.”</li> </ul>		
<p>Electrical Contact</p>		<ul style="list-style-type: none"> <li>• Maintain proper clearances for overhead power and telephone lines</li> <li>• Do not permit any excavation prior to determining the exact location of buried lines</li> <li>• Ensure all electrical outlets have proper cover plates and all electrical equipment is in good condition</li> <li>• Develop a lockout procedure for any damaged receptacles or equipment</li> <li>• Ensure all electrical cords are in good working order</li> <li>• Develop an inspection program for start-up of the electrical system</li> <li>• Keep overhead lines away from fuel tanks</li> </ul>		
<p>Emergency Situation</p>		<ul style="list-style-type: none"> <li>• Post all emergency contact numbers in a highly visible area (Fire, Oil Spill, Coast Guard, Environment, 911, etc)</li> <li>• Install a phone at the wharf to communicate to emergency personnel</li> </ul>		



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Head Injury		<ul style="list-style-type: none"><li>Wear CSA approved hard hat in areas where there is risk of head injury (i.e. operating a hoist)</li></ul>		
Eye Injury		<ul style="list-style-type: none"><li>Wear safety glasses or goggles where there is a risk of eye injury (i.e. operating a hoist)</li></ul>		
Foot Injury		<ul style="list-style-type: none"><li>Wear CSA approved steel toed boots where there is a risk of foot injury (i.e. operating a hoist or forklift)</li></ul>		
Other Hazards/Considerations:				
<b>Completed By:</b> Jocelyne Clarke – Frontline Safety Ltd		<b>Date:</b> October 30, 2003		
<b>Reviewed By:</b>		<b>Date:</b>		