

**Staff Report on G10Q009**

**1. Introduction**

The Land and Water Board's staff received a land use application from Department of Transportation, GNWT November 16<sup>th</sup>, 2010 proposing to conduct a Quarry / Stockpiling Permit at Km **34 Dempster Highway**. This report is intended to be used as a decision making document when board members are considering issuing a land use permit for the operation.

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**2. Comment Summary Table**

Organization, Contact and Date Received	Concerns / Suggestions Submitted
November 16 <sup>th</sup> , 2010, 2010; <b>GLWB</b> John Edwards Land & Water Technician	Sent a Letter of Acceptance to Department of Transportation  Sent out Letter of Review to all participating parties to review the Application.  Will send Preliminary Screening report to MVIERB ( <b>November 29th, 2010</b> )
JNovember 18 <sup>th</sup> 2010; <b>D.F.O., Amanda Joynt</b> Habitat Biologist	Proposal not likely to result in impacts to fish and fish habitat provided mitigation measures are applied
November 26 <sup>th</sup> 2010; <b>GRRB, Janet Boxwell</b>  <b>Renewable Resource Manager.</b>	Upon review of the Land Use Permit Application G 10 Q 009 for the Department of Transportation, GNWT (PROPONENT), the Gwich'in Renewable Resources Board (GRRB) is satisfied that all requirements have been met.  The Board requests that the following recommendations be provided to the PROPONENT: <ul style="list-style-type: none"> <li>• Land use operations will be suspended temporarily if caribou, moose, sheep, grizzly bear and/or muskoxen are spotted within 500m of any work/camp site. Operations may resume once the animal(s) have left the area.</li> <li>• DFO approved screens will be placed on all water intake pipes to prevent the uptake of fish.</li> <li>• All equipment will be cleaned prior to initial use to prevent the spread of invasive species.</li> <li>• If re-seeding is required, every effort will be made to use a native seed source or, if not possible, to ensure that an uncontaminated seed source is used.</li> <li>• If applicable, trained environmental monitors familiar with the program area will be utilized and hired through the community Renewable Resources Council. The monitors will be given direction from the company and follow those responsibilities outlined in the agreement.</li> <li>• At least one week prior to commencement of the program each season, traditional users, community residents and organizations will be notified via posted notices.</li> <li>• A brief summary will be provided to the Gwich'in Renewable Resources Board one month after the end of each operation season. This report should include a map (GPS locations if available) and outline any wildlife observations, environmental accidents and access routes created in the previous season. Wildlife mortalities will be reported immediately to the GRRB.</li> </ul>
November 26 <sup>th</sup> 2010; <b>PWNHC, Tom Andrews</b>	No comments were received
November 26 <sup>th</sup> 2010; <b>G.L.A., Mardy Semmler</b>	No comments were received.
November 26 <sup>th</sup> 2010; <b>E.C.: Patrick Clancey</b> Environment Assessment Analyst	No comments were received.

November 26 <sup>th</sup> 2010; <b>G.S.C.I. Sharon Snowshoe</b> , Executive Director	No comments were received.
November 26 <sup>th</sup> 2010; <b>ENR, Patrick Clancy</b> Environmental Regulatory Analyst	No comments were received
November 26 <sup>th</sup> 2010; <b>INAC, N.M.D. Conrad Baetz</b> ,	No comments were received Reviewed Draft Land Use Conditions and Permit
November 26 <sup>th</sup> 2010; <b>Tetlit Gwich'in Council, Tetlit Gwich'in RRC</b>	No comments were received
November 26 <sup>th</sup> 2010; <b>M.V.L.W.B . Valerie Meeres</b> Regulatory Officer	No comments were received
November 26 <sup>th</sup> 2010; <b>Sue McKenzie</b> Gwich'in Land Use Planning Board	No comments were received

### 3. Summary of Potential Impacts and Mitigation Measures

The first column "Potential Impacts" lists all impacts which may happen with this type of operation. Included in the column are the names of the review groups who were concerned about certain aspects of the operation. The next column lists mitigation measures which will eliminate or lessen the potential impacts. The third column lists the headings of the term or condition that will be used to draft the land use permit.

Potential Impacts	Mitigation	Clause
<b>Permafrost</b> <ul style="list-style-type: none"> <li>➤ Possible disturbance to permafrost from burying waste material.</li> <li>➤ Possible damage to the permafrost in the summer.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Remove all waste material.</li> <li>➤ Prevent Permittee from operating when rutting occurs.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Remove Waste Material</li> <li>➤ Prevention of Rutting</li> </ul>
<b>Lakes and Streams</b> <ul style="list-style-type: none"> <li>➤ Potential blockage of natural drainage from parts of the operation.</li> <li>➤ Potential disturbance to the water table.</li> <li>➤ Potential contamination to waters from submerged trees and brush.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Locate operation to prevent blockage.</li> <li>➤ Do not quarry below the depth of the water table.</li> <li>➤ Instruct Permittee to burn brush.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Natural Drainage</li> <li>➤ Quarry Depth</li> <li>➤ Burn Brush</li> </ul>
<b>Soil and Vegetation</b>		

<ul style="list-style-type: none"> <li>➤ Organic soil may be disposed of during clearing (used in restoration).</li> <li>➤ Potential for erosion when vegetation is removed.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Save organic soil stripped from areas in the pit.</li> <li>➤ Permittee must install erosion control structures.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Save Organic Soil</li> <li>➤ Erosion Control</li> </ul>
<p><b>Wildlife and Fish</b></p> <ul style="list-style-type: none"> <li>➤ Potential hazards to wildlife.</li> <li>➤ Unnecessary damage to wildlife habitat.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Remove all garbage and debris from the area of the land use operation.</li> <li>➤ Instruct the Permittee to be careful when using machinery.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Remove Garbage</li> <li>➤ Habitat Damage</li> </ul>
<p><b>Archaeological Sites and Monuments</b></p> <ul style="list-style-type: none"> <li>➤ No impacts expected</li> </ul>		
<p><b>Heritage Sites/Traditional Use Areas</b></p> <ul style="list-style-type: none"> <li>➤ No impacts expected</li> </ul>		
<p><b>Recreational/Aesthetic Areas</b></p> <ul style="list-style-type: none"> <li>➤ Potential unsightliness or erosion from not sloping side hill cuts or waste material in areas of public use.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Instruct the Permittee to slope waste material excavations and embankments after use.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Excavations and embankments</li> <li>➤ Waste Material Piles.</li> <li>➤ Clean work area</li> </ul>
<p><b>Community Comments</b></p> <ul style="list-style-type: none"> <li>➤ No comments from communities.</li> </ul>		<p><b>Standard Clauses</b></p> <ul style="list-style-type: none"> <li>➤ Plans</li> <li>➤ Contact GLWB Staff/Inspectors</li> <li>➤ Expiry Date</li> <li>➤ Reports Before Removal</li> <li>➤ Clean Up</li> <li>➤ Closure</li> <li>➤ Only Approved Equipment</li> <li>➤ Stripping of Overburden</li> <li>➤ Restrictions</li> <li>➤ Copy of Permit</li> <li>➤ Identify Agent</li> </ul>