

# **Granular Resource Requirements for Proposed Mackenzie Valley Pipelines:**

**Technical Papers and Workshop Proceedings**

**Sponsored by:  
Northern Oil and Gas Action Program (NOGAP) Project A4:  
Granular Resources Inventory and Management**

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**SECTION 5.**  
**TECHNICAL PANEL "C"**  
**TYPICAL BORROW MATERIALS USAGE**

## TYPICAL NORTHERN COMMUNITY BORROW REQUIREMENTS

Jim Nicholson

*GNWT - Public Works and Services, Yellowknife, NWT*

The Community Granular Program was initiated in 1985 with a mandate to assess the need of the non tax-based municipalities. Under this program, granular material refers to all types and sizes of material. At this point in time, the program does not operate in any of the tax-based communities such as Inuvik and Norman Wells.

The program's mandate is strictly to locate sources that are close to the community that are of a reasonable quality and sufficient quantity to warrant development. Where the material is insufficient or doesn't exist, material will be hauled in to stockpile. The granular requirements of the communities is difficult to estimate, as compared to the requirements for a highway which are fairly standard. What we have to do is take a 20-year needs assessment and 5-year capital program for the GNWT and pull the granular requirements from all the departments and all the projects that are ongoing or are proposed. We also look at the granular requirements of proposed

federal government projects and the private sector as best we can. Unfortunately, it seems that a lot of times they really don't know for sure what they're going to do until the day before it happens.

Essentially that forms the basis for everything that we do in terms of production and management of the resource. In a lot of cases, we simply don't have to crush or produce at all because the materials are usually accessible from the private sector anyway.

It's a fairly nebulous process in terms of what the numbers really mean. Typically, your needs in a small community are going to run from 70,000 to 80,000 m<sup>3</sup> over 20 years. Fort Norman and Fort Franklin are a bit larger and may have requirements of up to 100,000 m<sup>3</sup> over 20 years. The figures that we are speaking about are very low and perhaps some have little or no bearing in terms of the megaprojects and master plans you are looking at.

*Note: The text of this presentation has been transcribed from an audio-tape recording of the workshop presentations. If necessary, we would suggest that the reader verify the accuracy of these comments with the presenter.*