



GRANULAR RESOURCES DIRECTORY

Inuvialuit
Settlement Region

March 1999

GRANULAR RESOURCES DIRECTORY

Inuvialuit Settlement Region

Prepared for
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& Northern Development
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Prepared by
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Additional copies of this directory are available from:

Land Administrator,
Inuvialuit Land Administration
PO Box 290
Tuktoyaktuk, NT X0E 10C
Phone: (867) 977-2202
Fax: (867) 977-2467

For further information on this directory and other northern granular resources studies, contact:

Manager, Land Programs
Northern Affairs Program
Department of Indian Affairs & Northern Development
Room 618, North Tower
Les Terrasses de la Chaudiere
Ottawa, ON K1A 0H4
Phone: (819) 994-7464
Fax: (819) 953-2590

The database for this Directory was compiled as of March 1999, and it is recognized that some entries already are out of date. Readers are encouraged to submit comments on the usefulness of the Directory, and suggestions for improving it, to the above address. The staff at GeoNorth Ltd. would like to thank all those interviewed for their time and information and wish to express their apologies for any errors or omissions.

PREFACE

The roles and responsibilities of governments and institutions in the North are evolving rapidly as a result of land claims and self-government agreements, devolution to the territorial governments and the creation of a new territory, Nunavut. New institutions of public government with responsibilities for land use planning and resources management are being created pursuant to land claims settlements. Resource management boards have or will assume from DIAND many of its historical regulatory authorities. However, DIAND will still have residual responsibilities for managing remaining federal lands in a way that complements the activities of the new institutions and governments. This includes, as a specific component of DIAND's sustainable development strategy, continuing to develop a program for the effective management of granular resources.

DIAND's sustainable development strategy also includes a number of the objectives, targets and specific actions that will require or encourage the identification of stakeholders and interest groups. These include strengthening partnerships with other organizations, increasing opportunities for northerners to participate in decisions that affect their future, collaborating with others, increasing the capacity of northerners to benefit from development opportunities, improved consultation, ensuring transparency and inclusiveness as a key to effective communication with northerners. For the Northern Granular Resources Program to meet its goals with respect to the Department's commitment to foster sustainable development in the North, there is a need for a better understanding of the range of organizations and individuals affected by granular resource management actions and decisions.

Separate directories for the Northwest Territories, Nunavut, Inuvialuit Settlement Region, and Yukon have been prepared under contract to DIAND. This series attempts to compile information on government and non-governmental organizations and individuals, owners, operators, service providers involved with, or affected by, any or all aspects of the identification, exploration, regulation, development, management and use of granular resources in Canada's northern territories. While care was taken to ensure that the information was accurate and current at the time of compilation, it is inevitable that there will be changes or additions. Users of this directory are encouraged to forward any new information to either of the addresses provided on the back of the title page.

Robert J. Gowan, P. Geol.
Manager, Land Programs
Northern Affairs Program - DIAND

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MAP AND KEY DEFINITIONS: Inuvialuit Settlement Region (back cover)

INTRODUCTION

The Northern Affairs Program (NAP) of the federal Department of Indian Affairs and Northern Development (DIAND) has overall responsibility for the control and administration of wide range of natural resources in the North. This includes the responsibility to ensure that resource development benefits all Canadians while reducing damage to the environment and enhancing the lifestyles of all northern residents. Granular resources are necessary for most development projects in the North.

Ownership of land in the North generally includes ownership of granular resources - soil, sand, gravel and certain types of rock that are required for land development and are accessible from the land surface in pit and quarry operations. Generally, through the *Department of Indian Affairs and Northern Development Act*, the federal government has an overall responsibility for resources in the North, as well as residual responsibility for remaining federal lands, identified in the *Territorial Lands Act*. In the Inuvialuit Settlement Region, there are four categories of land ownership.

- ◆ Crown lands (federal lands administered by DIAND; also referred to as territorial lands in the *Territorial Lands Act*)
- ◆ Commissioner's lands (federal lands administered by the territorial government)
- ◆ Inuvialuit-owned or Private lands (administered by the Inuvialuit Land Administration)
- ◆ Municipal lands (administered by the territorial government or the municipality)

The laws and regulations affecting the taking and use of granular resources, and the process for obtaining authorizations, vary across the North, and depend also on land ownership.

It is imperative that the needs of a wide array of stakeholders and interest groups be considered in order to properly develop and manage these important resources. Consequently, DIAND has attempted to compile, verify and update information on all stakeholders involved in granular resources. What follows is a comprehensive directory of those involved with any or all aspects of the identification, exploration, regulation, development, management and use of granular resources within the Inuvialuit Settlement Region.

How to use this Directory

The Directory includes three parts.

The **first** part includes key definitions and a brief overview of the laws, regulations and application process applicable to the various land ownership categories, including key regulatory contacts.

The **second** part consists of listings of stakeholders grouped into four main categories and several sub-categories. At the beginning of the listing is a brief explanation of the categories and its sub-categories. The main categories are as follows:

- ◆ **Regulators;**
- ◆ **Development and Use;**
- ◆ **Services;** and
- ◆ **Reference;**

Each stakeholder listing includes (as available) name, position title and organization, mailing and e-mail addresses, telephone and fax numbers and several keywords that describe the stakeholder's role or interest in granular resources.

The **third** part contains three indexes of the stakeholders included in the directory and the page on which their full entry is included. The first index lists organizations that are grouped alphabetically under subject categories that generally correspond to those in the second part of the directory. The second is an alphabetical listing of all organizations in the directory. The final index is an alphabetical listing of all persons in the directory.

ACTS & REGULATIONS AFFECTING PITS & QUARRIES

The following is a brief list of the major Acts and Regulations that apply to pit and quarry development in the Inuvialuit Settlement Region:

- ◆ *Territorial Lands Act, Territorial Land Use Regulations, Territorial Quarrying Regulations,*
- ◆ *Commissioner's Land Act and Commissioner's Land Regulations*
- ◆ *Fisheries Act,*
- ◆ *NWT Waters Act, and*
- ◆ *Mine Safety Ordinances and Rules.*

The *Inuvialuit Final Agreement* provided the Inuvialuit with a large amount of titled land. The Inuvialuit now manage this land.

Crown Lands

The district manager of the DIAND District Office is responsible for regulation of land use activities on Crown lands in the Inuvialuit Settlement Region. The statute for governing the removal and disposal of granular materials is the *Territorial Lands Act*, which is the enabling legislation for two key regulations: *Territorial Land Use Regulations* and *Territorial Quarrying Regulations*. If exploratory work is required to investigate a potential pit or quarry site, a land use permit is required before undertaking such work. Prior to removing any granular materials on Crown lands in this region, a developer must obtain both a quarry permit and land use permit from DIAND.

A **land use permit** authorizes temporary use of land for activities associated with a quarry activity for periods of less than three years. Land use permits are designed to minimize environmental disturbance and contain conditions regarding environmental protection, location and area, timing of operation, type and size of equipment, abandonment and clean-up. A security deposit is required.

A **quarry permit** authorizes a person to remove a specific amount of material from specific lands. Permits expire when the quantity of material or substance mentioned in the permit has been quarried or removed or on the expiry of one year from the date of issue, whichever is earlier. The permit requires the payment of royalties and fees, based on the amount of material to be removed estimated on the permit. Money is refunded if less than the full amount of material is used.

A developer may obtain a **quarry lease**, once the lands containing the deposits are staked, if use of the resource will be required over several years.

Further information concerning the regulations and procedures can be obtained from sources listed in this Directory under Regulators and Reference. All relevant federal Acts and Regulations may be obtained from DIAND offices and web site www.inac.gc.ca/legisl/legisl.html. Key documents include "Environmental Guidelines: Pits and Quarries" and the "Administrative Guide" (available at DIAND offices), as well as "Jurisdictional Responsibilities for Land Resources, Land Uses and Development in the Yukon Territory and Northwest Territories" (available at DIAND offices and web site www.inac.gc.ca/pubs/jrlr/index.html).

For applications and information on sand and gravel extraction, contact the following office:



DEPT. OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT (DIAND)

North Mackenzie District Office

District Manager

P.O. Box 2100, Inuvik, NT X0E 0T0

Phone: (867) 777-3361 Fax: (867) 777-2090

Inuvialuit Lands

According to the *Inuvialuit Final Agreement*, the Inuvialuit obtained title to a large amount of land in the Inuvialuit Settlement Region. The Inuvialuit have assigned the management of this land to the Inuvialuit Land Administration (ILA). The ILA controls all land use activities on Inuvialuit-owned lands and follows its own procedures and guidelines.

A licence or concession must be obtained from the Inuvialuit Land Administration office in Tuktoyaktuk prior to the removal of granular material. The *Inuvialuit Final Agreement* contains various conditions on rights, fees and royalties payable.

A **licence** is a non-exclusive right to remove a specified volume of sand and gravel from a particular site during a period not exceeding one year.

A **concession** is the exclusive right to explore, develop and produce sand and gravel from an area for duration specified within the concession.

Both co-management organizations, the Environmental Impact Screening Committee and the Environmental Impact Review Board, are mandated to carry out a more in-depth review of all proposals that may adversely impact the ecosystem or wildlife harvesting.

Certain lands within the Inuvialuit Settlement Region are subject to overlap agreements with the Gwich'in and consequently fall under Gwich'in administration.

For applications and information on sand and gravel extraction, contact the following office:



INUVIALUIT LAND ADMINISTRATION

Lands Administrator

P.O. Box 290, Tuktoyaktuk, NT X0E 1C0

Phone: (867) 977-2202 Fax: (867) 977-2467

Commissioner's Lands

Commissioner's lands are lands for which control and administration has been transferred to the Commissioner of the Northwest Territories. These lands are usually in and around communities and also include highways and roads on public land. They comprise less than one percent of the NWT. The Department of Municipal and Community Affairs (MACA), within the Government of the Northwest Territories (GNWT) manages Commissioner's lands. Under the *Commissioner's Land Act* and regulations, MACA reviews and processes land use applications, though approval from the local hamlet or tribal council is necessary before land use permits can be issued. Developers may apply for a quarrying lease for the granular deposit, generally if use of the resource will be required over a relatively long time period. Over shorter time periods (one or two years) the development of the deposit requires a quarry permit. Leases and permits authorize the removal of granular materials and specify the fees and royalties to be paid under the *Commissioner's Land Regulations*.

For applications and information on sand and gravel extraction, contact the following office:



GNWT

DEPT. OF MUNICIPAL AND COMMUNITY AFFAIRS (MACA)

Senior Lands Officer

Bag Service #1, Inuvik, NT X0E 0T0

Phone: (867) 777-7362 Fax: (867) 777-7352

Municipal Lands

This includes all lands within a municipal boundary, but excluding: First Nation owned lands; Crown lands; Commissioner's lands; and mines and minerals other than granular materials. All activities on municipal lands are administered and controlled by the Commissioner for the use and benefit of the local municipality, and generally follow the

process described for Commissioner's land. Municipalities are consulted before any quarry permits or leases are issued on municipal lands. Through quarry or land administration agreements, administrative control of quarry permits and leases may be given to the municipality. The *Commissioner's Land Act* and *Regulations* apply to all land use activities on municipal lands and approval from the local municipality is required for both quarry leases and permits. There are 6 municipalities within the Inuvialuit Region: Tuktoyaktuk, Holman, Aklavik, Inuvik, Paulatuk and Sachs Harbour.

For information on sand, gravel or to be directed to the local municipality for applications contact:



GNWT

DEPT. OF MUNICIPAL AND COMMUNITY AFFAIRS (MACA)

Senior Lands Officer

Bag Service #1, Inuvik, NT X0E 0T0

Phone: (867) 777-7362 Fax: (867) 777-7352

Other Lands

For land not included in the above categories or if uncertain about a specific land designation, contact the DIAND office below:



DEPT. OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT (DIAND)

Land Administration

Regional Manager

P.O. Box 1500, Yellowknife, NT X1A 2R3

Phone: (867) 669-2671 Fax: (867) 669-2713

APPLICATION & REVIEW PROCESS

Various agencies, depending on the land designation of the proposed project, receive and review applications for granular use. DIAND issues quarry and land use permits for

Crown lands, but the Environmental Impact Screening Committee and the Environmental Impact Review Board conducts the screening and review of the applications. The Inuvialuit Land Administration (ILA) administers Inuvialuit lands, including reviewing applications and issuing permits.

Crown Lands

If site investigation is required to explore the potential of a pit or quarry, a land use permit may be required for this activity. If the site is to be developed, both a quarry permit and land use permit is required.

When a land use application is received by DIAND, it is first checked for completeness. All fees are paid when the application is submitted. The proponent also submits a project description to the Environmental Impact Screening Committee (EISC) to determine whether the development may result in a significant negative environmental impact and, if so, whether further review by the Environmental Impact Review Board

(EIRB) is required. The *Environmental Impact Screening Committee Operating Guidelines and Procedures* and the *Environmental Impact Review Board Operating Procedures* outline the processes followed by these two co-management organizations. A permit may not be issued until the provisions of the screening and review processes have been complied with.

Further information on screening and review can be obtained by contacting:



**JOINT SECRETARIAT –
INUVIALUIT RENEWABLE RESOURCES COMMITTEES**

P.O. Box 2120, Inuvik, NT X0E 0T0

Phone: (867) 777-2828 Fax: (867) 777-2610

E-mail: eisceirb@jointsec.nt.ca

In the case of a quarry permit, the application fee and all royalty fees (determined by the volume indicated on the quarry permit application) must be paid at the time of application. Should the applicant take less material than applied for, refunds of royalty fees will be made upon notification and confirmation.

Once a land use permit has been issued, DIAND Resource Management Officers conduct inspections during the operation to monitor compliance with the terms and conditions of the permits. Copies of inspection reports are forwarded to the Permute. Should an inspector determine that a Permittee is not complying with their permit, enforcement action can be taken, including cancellation of the permit and litigation.

Inuvialuit Lands

The Inuvialuit Land Administration (ILA) receives and accepts or rejects application for developments on Inuvialuit lands. All fees and royalties are payable to the Inuvialuit Land Administration. Inuvialuit lands are administered by the ILA and are subject to the

ILA rules and procedures, including a screening and permitting process to deal with proposed developments solely affecting Inuvialuit lands.

Further information on the application and screening process on these lands is available from:



INUVIALUIT LAND ADMINISTRATION

Lands Administrator

P.O. Box 290, Tuktoyaktuk, NT X0E 1C0

Phone: (867) 977-2202 Fax: (867) 977-2467

Commissioner's and Municipal Lands

Land within this designation would comprise only a small portion of the land base in the NWT. However, for Commissioner's or municipal lands the GNWT, Municipal and Community Affairs would normally receive the application. Fees are paid at the time of application. The proponent also submits a project description to the Environmental Impact Screening Committee (EISC) to determine whether the development may result in a significant negative environmental impact and, if so, whether further review by the

Environmental Impact Review Board (EIRB) is required. The *Environmental Impact Screening Committee Operating Guidelines and Procedures* and the *Environmental Impact Review Board Operating Procedures* outline the processes followed by these two co-management organizations. A permit may not be issued until the provisions of the screening and review process have been complied with. Once a permit has been issued, staff from MACA conducts inspections during the operation of the quarry or pit to monitor compliance with the terms and conditions of the permits.

Further information on the application process can be obtained by contacting:



GNWT

DEPT. OF MUNICIPAL AND COMMUNITY AFFAIRS (MACA)

Senior Lands Officer

Bag Service #1, Inuvik, NT X0E 0T0

Phone: (867) 777-7362 Fax: (867) 777-7352

REGULATORS

Applications for permit use of granular resources must be given to the appropriate agency, based on the designation of the land concerned.

PERMIT APPLICATION

Inuvialuit Land, apply to Inuvialuit Land Administration;

Commissioner's & Municipal Land, apply to Dept. of Community and Municipal Affairs, Government of the Northwest Territories;

Crown Land, apply to Dept. of Indian Affairs & Northern Development, North Mackenzie District Office, Government of Canada.

REVIEW PROCESS

Agencies, including the Inuvialuit, co-management and government that may be involved in some aspect of the screening and reviewing of applications.

PERMIT APPLICATION

INUVIALUIT

■ Inuvialuit Land Administration

Hans Arends
Administrator
P.O. Box 290
Tuktoyaktuk, NT X0E 1C0
(867) 977-2202, fax:(867) 977-2467

GOVERNMENT of the NORTHWEST TERRITORIES

■ Dept. of Municipal and Community Affairs

Inuvik

Dan Carmichael
Senior Lands Officer
Bag Service 1
Inuvik, NT X0E 0T0
(867) 777-7362, fax:(867) 777-7352

GOVERNMENT of CANADA

■ Dept. of Indian Affairs and Northern Development

North Mackenzie District Office

Rudy Cockney
District Manager
P.O. Box 2100
Inuvik, NT X0E 0T0
(867) 777-3361, fax:(867) 777-2090

REVIEW PROCESS

INUVIALUIT

■ Aklavik Hunters' & Trappers' Committee

P.O. Box 133
Aklavik, NT X0E 0A0
(867) 978-2723, fax:(867) 978-2661

■ Inuvialuit Regional Corp.

Nellie Cournoyea
Chairperson
P.O. Box 2120
Inuvik, NT X0E 0T0
(867) 777-2737, fax:(867) 777-2135

■ Inuvik Hunters' & Trappers' Committee

P.O. Box 1720
Inuvik, NT X0E 0T0
(867) 777-3671, fax:(867) 777-4422

■ Olokhaktomiut Hunters' & Trappers' Committee

P.O. Box 161
Holman, NT X0E 0S0
(867) 396-4808, fax:(867) 396-3025

■ Paulatuk Hunters' & Trappers' Committee

General Delivery
Paulatuk, NT X0E 1N0
(867) 580-3004, fax:(867) 580-3404

■ Sachs Harbour Hunters' & Trappers' Committee

P.O. Box 79
Sachs Harbour, NT X0E 0Z0
(867) 690-3028, fax:(867) 690-3616

■ **Tuktoyaktuk Hunters' & Trappers' Committee**
P.O. Box 286
Tuktoyaktuk, NT X0E 1C0
(867) 977-2457, fax:(867) 977-2433

CO-MANAGEMENT

■ **Environmental Impact Review Board**
Linda Graf
Secretary
P.O. Box 2120
Inuvik, NT X0E 0T0
(867) 777-2828, fax:(867) 777-2610
e-mail: eisceirb@jointsec.nt.ca

■ **Environmental Impact Screening Committee**
Linda Graf
Secretary
P.O. Box 2120
Inuvik, NT X0E 0T0
(867) 777-2828, fax:(867) 777-2610
e-mail: eisceirb@jointsec.nt.ca

■ **Joint Secretariat - Inuvialuit Renewable Resource Committees**
Norm Snow
Executive Director
P.O. Box 2120
Inuvik, NT X0E 0T0
(867) 777-2828, fax:(867) 777-2610
e-mail: eisceirb@jointsec.nt.ca

MUNICIPALITIES

■ **Holman, Hamlet of**
Eleanor Young
General Delivery
Holman, NT X0E 0S0
(867) 396-3511, fax:(867) 396-3256

■ **Inuvik, Town of**
Don Howden
P.O. Box 1160
Inuvik, NT X0E 0T0
(867) 777-2604, fax:(867) 777-2071

■ **Paulatuk, Hamlet of**
Ken Thompson
General Delivery
Paulatuk, NT X0E 1N0
(867) 580-3531, fax:(867) 580-3703

■ **Sachs Harbour, Hamlet of**
Eileen Angiers
General Delivery
Sachs Harbour, NT X0E 0Z0
(867) 690-4351, fax:(867) 690-4802

■ **Tuktoyaktuk, Hamlet of**
Lucy Kuptana
P.O. Box 120
Tuktoyaktuk, NT X0E 1C0
(867) 977-2286, fax:(867) 977-2110

GOVERNMENT of the NORTHWEST TERRITORIES

■ Dept. of Resources, Wildlife and Economic Development

Inuvik Region
Bag Service 1
Inuvik, NT X0E 0T0
(867) 777-7305, fax:(867) 777-2418

GOVERNMENT of CANADA

■ Dept. of Fisheries and Oceans

N.W.T West Area
P.O. Box 1871
Inuvik, NT X0E 0T0
(867) 777-3314, fax:(867) 777-4330

■ Dept. of Indian Affairs and Northern Development

Inuvik District Office
P.O. Box 2100
Inuvik, NT X0E 0T0
(867) 777-3361, fax:(867) 777-2090

■ Environment Canada
Canadian Wildlife Service
5204-50th Ave., Suite 301
Yellowknife, NT X1A 1E2
(867) 669-4700, fax:(867) 873-8185

DEVELOPMENT AND USE

Includes construction companies using granular material in some aspect of their business, and extractors that have been issued permits to extract granular resources.

CONSTRUCTION

■ Allen Services & Contracting Ltd.

P.O. Box 2238

Inuvik, NT X0E 0T0

(867) 777-4149, fax:(867) 777-4139

· contractor - road construction· highway maintenance· contractor - landscape & design· equipment rental

■ Anuri & Associates Ltd.

P.O. Box 2502

Inuvik, NT X0E 0T0

(867) 777-4166, fax:(867) 777-2663

· general contractor

■ Astra Technical Services Ltd.

P.O. Box 2186

Inuvik, NT X0E 0T0

(867) 777-3649, fax:(867) 777-4315

· general contractor

■ Avati Ltd.

Bag Service 15

Inuvik, NT X0E 0T0

(867) 777-2419, fax:(867) 777-2400

· general contractor

■ B.A.T. Construction

P.O. Box 2658

Inuvik, NT X0E 0T0

· general contractor

■ Bob's Welding (1983) Ltd.

P.O. Box 2644

Inuvik, NT X0E 0T0

(867) 777-4174, fax:(867) 777-3004

· excavation· road construction

■ Chii Construction Services Ltd.

P.O. Box 2570

Inuvik, NT X0E 0T0

(867) 777-3344, fax:(867) 777-3090

· general contractor· equipment rental

■ D & R Ranson Construction Ltd.

119 Mackenzie Rd.

Inuvik, NT X0E 0T0

(867) 777-3182, fax:(867) 777-3200

· general contractor

■ Davis Construction Ltd.

P.O. Box 1635

Inuvik, NT X0E 0T0

(867) 777-4271, fax:(867) 777-2035

· general contractor· equipment rental

■ Dillon Landscaping Services

P.O. Box 2661

Inuvik, NT X0E 0T0

(867) 777-4453

· landscape & design· equipment rental

■ Dowland Contracting Ltd.

P.O. Box 1660

Inuvik, NT X0E 0T0

(867) 777-3860, fax:(867) 777-4106

· general contractor

■ Dowland Contracting Ltd.

P.O. Box 350

Tuktoyaktuk, NT X0E 1C0

(867) 977-2259

· general contractor

■ E Gruben's Transport

P.O. Box 177

Tuktoyaktuk, NT X0E 1C0

(867) 977-2300, fax:(867) 977-2257

· equipment rental· earthworks

■ East Three Enterprises

P.O. Box 2356

Inuvik, NT X0E 0T0

(867) 777-3111

· general contractor

■ Ed Dillon Landscaping Services

P.O. Box 2661

Inuvik, NT X0E 0T0

(867) 777-4453

· landscape & design

■ Elias Enterprises

P.O. Box 90

Holman, NT X0E 0S0

(867) 396-3018

· equipment rental

■ Finning Ltd.

P.O. Box 1264

Inuvik, NT X0E 0T0

(867) 777-2390, fax:(867) 777-2678

· excavation

■ Finning Tractor & Equipment Ltd.

P.O. Box 1264

Inuvik, NT X0E 0T0

(867) 777-2350

· excavation

■ Hansen Petroleum Products Ltd.

P.O. Box 1039

Inuvik, NT X0E 0T0

(867) 777-2311, fax:(867) 777-3061

· equipment rental

■ **IDC Inuvialuit
Development Corp.**

David Bethune
President
Bag Service 7, (107 Mackenzie Rd.)
Inuvik, NT X0E 0T0
(867) 777-2419, fax:(867) 777-3256
e-mail: idc@inuvialuit.com
· *economic development*

■ **Kelcy Construction Inc.**

General Delivery
Inuvik, NT X0E 0T0
(867) 777-2033, fax:(867) 777-4469
· *general contractor*

■ **Kigiak Services**

P.O. Box 1083
Inuvik, NT X0E 0T0
(867) 777-2260
· *general contractor*

■ **Kitekudlak Construction
Ltd.**

General Delivery
Holman, NT X0E 0S0
(867) 396-4408, fax:(867) 396-4408
· *general contractor*

■ **Midnight Sun Contracting**

Vern McLeod
P.O. Box 2154
Inuvik, NT X0E 0T0
(867) 777-3785, fax:(867) 777-3067
· *general contractor*

■ **Nordzone Consultants Ltd.**

P.O. Box 1954
Inuvik, NT X0E 0T0
(867) 777-3832
· *landscape & design*

■ **Paulatuk Community Corp.**

Paulatuk, NT X0E 1N0
(867) 580-3601, fax:(867) 580-3508
· *economic development*

■ **Permafrost Group Ltd.**

P.O. Box 1158
Inuvik, NT X0E 0T0
(867) 777-3190, fax:(867) 777-2520
· *landscape & design*

■ **Price Contracting Ltd.**

8 Stringer Rd.
Inuvik, NT X0E 0T0
(867) 777-3015
· *general contractor*

■ **Sachs Harbour
Community Corp.**

General Delivery
Sachs Harbour, NT X0E 0Z0
(867) 690-3025, fax:(867) 690-3018
· *economic development*

■ **Storr & Sons Contracting
Ltd.**

P.O. Box 2928
Inuvik, NT X0E 0T0
(867) 777-2673, fax:(867) 777-3029
· *general contractor*

■ **Tetlit'zheh Construction
Ltd.**

Steve Hagan
Office Manager
P.O. Box 1820
Inuvik, NT X0E 0T0
(867) 777-3337, fax:(867) 777-2969
e-mail: tzc@inuvik.net
· *general contractor*

■ **Tuk Community Corp.**

P.O. Box 290
Tuktoyaktuk, NT X0E 1C0
(867) 977-2390, fax:(867) 977-2504
· *economic development*

■ **Waser Construction**

34 Centennial St.
Inuvik, NT X0E 0T0
(867) 777-3320
· *general contractor*

■ **Weitzel Construction**

33 Industrial Rd.
Inuvik, NT X0E 0T0
(867) 777-3954, fax:(867) 777-2981
· *general contractor*

EXTRACTORS

■ **Adams Services Ltd.**

P.O. Box 2711
Inuvik, NT X0E 0T0
(867) 777-4127
· *extractor*

■ **Arctic Tire (1980) Ltd.**

P.O. Box 2238, (80 Navy Rd.)
Inuvik, NT X0E 0T0
(867) 777-4149, fax:(867) 777-4147
· *minor extractor*

■ **Bob's Welding (1983) Ltd.**

P.O. Box 2644
Inuvik, NT X0E 0T0
(867) 777-4174, fax:(867) 777-3004
· *minor extractor*

■ **Kirk Contracting (1988)
Ltd.**

P.O. Box 2480
Inuvik, NT X0E 0T0
(867) 777-3591, fax:(867) 777-3599
· *minor extractor*

■ **North Star Service &
Construction Ltd.**

P.O. Box 1005, (68 Reliance St.)
Inuvik, NT X0E 0T0
(867) 777-2393, fax:(867) 777-2868
· *extractor*

■ **Storr & Sons Contracting
Ltd.**

P.O. Box 2928
Inuvik, NT X0E 0T0
(867) 777-2673, fax:(867) 777-3029
· *extractor*

SERVICES

Includes consultants involved in projects pertaining to any or all aspects of granular resources as well as service/suppliers, companies involved in the movement, supply and sale of granular resources.

CONSULTANTS

■ Ferguson Simek Clark

P.O. Box 2385, (181 Mackenzie Rd.)

Inuvik, NT X0E 0T0

(867) 777-2427, fax:(867) 777-3025

e-mail:fscinuvik@permafrost.com

web page:www.fsc.ca

· *engineering & environmental consultant*

■ High North Building Consultants

P.O. Box 1274

Inuvik, NT X0E 0T0

(867) 777-4209

· *engineering consultant*

■ Inuvialuit Projects Inc.

Bag Service 7

Inuvik, NT X0E 0T0

(867) 777-2419, fax:(867) 777-3256

· *engineering consultant*

■ Reid Crowther & Partners Ltd.

P.O. Box 1998

Inuvik, NT X0E 0T0

(867) 777-4375, fax:(867) 777-2843

· *engineering consultant*

EQUIPMENT SUPPLIERS

■ Adams Services Ltd.

P.O. Box 2711

Inuvik, NT X0E 0T0

(867) 777-4127

· *excavation· equipment rental*

■ Allen Services & Contracting Ltd.

P.O. Box 2238

Inuvik, NT X0E 0T0

(867) 777-4149, fax:(867) 777-4139

· *equipment rental· road construction· landscape & design*

■ Asto Wall Ltd.

General Delivery

Tuktoyaktuk, NT X0E 1C0

(867) 977-2214

· *equipment - service & supplies*

■ Belluga Transportation Ltd.

P.O. Box 1130

Inuvik, NT X0E 0T0

(867) 777-2176

· *equipment rental*

■ C & C Enterprises

P.O. Box 2848

Inuvik, NT X0E 0T0

· *equipment rental*

■ E Gruben's Transport

P.O. Box 177

Tuktoyaktuk, NT X0E 1C0

(867) 977-2300, fax:(867) 977-2257

· *trucking· freight services· equipment rental*

■ FXP Enterprises

P.O. Box 1754

Inuvik, NT X0E 0T0

· *equipment rental*

■ Hansen Petroleum Products Ltd.

P.O. Box 1039

Inuvik, NT X0E 0T0

(867) 777-2311, fax:(867) 777-3061

· *trucking· freight services· equipment rental*

■ Inuvik Construction Ltd.

P.O. Box 1831

Inuvik, NT X0E 0T0

(867) 777-2419, fax:(867) 777-3256

· *equipment rental*

■ Kirk Contracting (1988) Ltd.

P.O. Box 2480

Inuvik, NT X0E 0T0

(867) 777-3591, fax:(867) 777-3599

· *equipment rental*

■ Len Cardinal Transportation Ltd.

P.O. Box 2568

Inuvik, NT X0E 0T0

(867) 777-3335

· *equipment rental*

■ McCarthy Services

P.O. Box 2238

Inuvik, NT X0E 0T0

(867) 777-4149, fax:(867) 777-4147

· *equipment rental*

■ **North Star Service & Construction Ltd.**

P.O. Box 1005, (68 Reliance St.)
Inuvik, NT X0E 0T0
(867) 777-2393, fax:(867) 777-2868
· *equipment rental*

HAULING

■ **Arctic Tire (1980) Ltd.**

P.O. Box 2238, (80 Navy Rd.)
Inuvik, NT X0E 0T0
(867) 777-4149, fax:(867) 777-4147
· *trucking· freight services*

■ **Arctic Towing Ltd.**

P.O. Box 1325
Inuvik, NT X0E 0T0
(867) 777-4153
· *trucking· freight services*

■ **Bellas Trucking Ltd.**

P.O. Box 1406
Inuvik, NT X0E 0T0
(867) 777-2361, fax:(867) 777-2007
· *trucking· freight services*

■ **Bob's Welding (1983) Ltd.**

P.O. Box 2644
Inuvik, NT X0E 0T0
(867) 777-4174, fax:(867) 777-3004
· *trucking· freight services*

■ **BTS - Byers Transportation Ltd.**

General Delivery
Inuvik, NT X0E 0T0
(867) 777-3557, fax:(867) 777-2790
· *trucking· freight services*

■ **Coastal Marine Ltd.**

P.O. Box 1778
Inuvik, NT X0E 0T0
(867) 777-3530, fax:(867) 777-3247
· *trucking· freight services*

■ **Cross Country Enterprise**

P.O. Box 2278
Inuvik, NT X0E 0T0
(867) 777-4404
· *trucking· freight services*

■ **E Gruben's Transport**

P.O. Box 177
Tuktoyaktuk, NT X0E 1C0
(867) 977-2300, fax:(867) 977-2257
· *trucking· freight services· equipment rental*

■ **Grubens Transport Ltd.**

P.O. Box 177
Tuktoyaktuk, NT X0E 1C0
(867) 977-2300, fax:(867) 977-2257
· *trucking· freight services*

■ **Hansen Petroleum Products Ltd.**

P.O. Box 1039
Inuvik, NT X0E 0T0
(867) 777-2311, fax:(867) 777-3061
· *trucking· freight services· equipment rental*

■ **Holman Taxi Service**

P.O. Box 19
Holman, NT X0E 0S0
(867) 396-4541
· *trucking· freight services*

■ **Horizon Transportation**

P.O. Box 2096
Inuvik, NT X0E 0T0
(867) 777-3908
· *trucking· freight services*

■ **Matco Transportation Systems**

P.O. Box 1218
Inuvik, NT X0E 0T0
(867) 777-2733, fax:(867) 777-3372
web page:www.matco.ca
· *trucking· freight services*

■ **Mid-Arctic Transportation Co.**

P.O. Box 1218
Inuvik, NT X0E 0T0
(867) 777-2733, fax:(867) 777-2733
· *trucking· freight services*

■ **Northern Transportation Company Ltd.**

P.O. Box 1248
Inuvik, NT X0E 0T0
(867) 777-2442, fax:(867) 777-4277
e-mail:ntcl@ntcl.com
web page:www.NTcll.com
· *trucking· freight services*

■ **Northern Transportation Company Ltd.**

Bag Service 3000
Tuktoyaktuk, NT X0E 1C0
(867) 977-2442, fax:(867) 977-2410
e-mail:ntcl@ntcl.com
web page:www.NTcll.com
· *trucking· freight services*

■ **Northwest Transport Ltd.**

Robin McConville
Manager
P.O. Box 2630
Inuvik, NT X0E 0T0
(867) 777-2519, fax:(867) 777-2666
· *trucking· freight services*

■ **Pingo Drilling Ltd.**

P.O. Box 1558
Inuvik, NT X0E 0T0
(867) 777-2627, fax:(867) 777-2627
· *trucking· freight services*

■ **Points North Transportation**

P.O. Box 1778
Inuvik, NT X0E 0T0
(867) 777-3530, fax:(867) 777-3247
· *trucking· freight services*

■ **Storr & Sons Contracting Ltd.**

P.O. Box 2928
Inuvik, NT X0E 0T0
(867) 777-2673, fax:(867) 777-3029
· *trucking· freight services· road construction*

■ **Wright Transport**

P.O. Box 1326
Inuvik, NT X0E 0T0
(867) 777-3344, fax:(867) 777-3090
· *trucking· freight services*

REFERENCE

Included are associations and government sources that may have information useful in the permitting process as well as the science and technology specific to granular resources.

ASSOCIATIONS

■ American Institute of Professional Geologists

#103, 7828 Vance Dr.
Arvada, CO, USA 80003-2125
(303) 431-0831, fax:(303) 431-1332
e-mail: aipg@aipg.com
web page: www.nbmjg.unr.edu/aipg

■ American Society for Surface Mining & Reclamation

Bill Plass
Executive Secretary
21 Grandview Dr.
Princeton, WV, USA 24740
(304) 425-8332, fax:(304) 425-8332

■ American Society for Testing and Materials

100 Barr Harbor Dr.
West Conshohocken, PN, USA
19428-2959
web page: www.astm.org
· Association develops and publishes voluntary technical standards and related technical information.

■ Association of Consulting Engineers of Canada

Suite 616, 130 Albert St.
Ottawa, ON K1P 5G4
(613) 236-0569, fax:(613) 236-6193
e-mail: memserv@acec.ca
web page: www.acec.ca

■ Association of Professional Engineers & Geoscientists of British Columbia

John Bremner
Executive Director
#200, 4010 Regent St.
Burnaby, BC V5C 6N2
(604) 430-8035, fax:(604) 430-8085
e-mail: comm@apeg.bc.ca
web page: www.apeg.bc.ca

■ Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)

Neil Windsor
Executive Director
1500 Scotia One, 10060 Jasper Ave.
NW
Edmonton, AB T5J 4A2
1-800-661-7020, fax:(780) 426-1877
e-mail: email@apegga.org
web page: www.apegga.com
· APEGGA regulates and provides leadership for the professions of engineering, geology and geophysics

■ Canadian Association of Geographers (CAG)

Valerie Shoffey
Executive Secretary
(514) 398-4946, fax:(514) 398-7437
e-mail: cag@felix.geog.mcgill.ca
web page: www.uwindsor.ca/cag

■ Canadian Association of Geophysical Contractors (CAGC)

#1045, 1015-4th St., SW
Calgary, AB T2R 1J4
(403) 265-0045, fax:(403) 265-0025
e-mail: cagc@cadvision.com
web page: www.cadvision.com/cagc

■ Canadian Council of Professional Geoscientists

Gordon Williams
Chair
#1600, 734-7th Ave. SW
Calgary, AB T2P 3P8
(403) 232-8511, fax:(403) 269-2787
web page: www.ccpge.ca

■ Canadian Geomorphology Research Group (CGRG)

Dan Smith
Assoc. Professor
(250) 721-7328, fax:(250) 721-6216
e-mail: dsmith@uvvm.uvic.ca
web page: www.geography.geog.uvic.ca/dept/cgrg/cgrg.htm
· Searchable web database with extensive information on Canadian geomorphology and hydrology.

■ Canadian Geotechnical Society (CGS)

James Graham
Director General
P.O. Box 937
Alliston, ON L9R 1W1
(204) 269-0815, fax:(705) 434-0917
e-mail: cgs@cc.umanitoba.ca
web page: www.cgs.ca
· Extensive information about geotechnical engineering and related geosciences.

■ **Canadian Institute of Mining & Metallurgy**

Pamela Ellemers
President
#4, 4905-48th St.
Yellowknife, NT X1A 2R3
(867) 873-4503, fax:(867) 873-4532
web page:www.cim.org
· *Leading technical society of professionals in the Canadian minerals, metals, materials and energy industries.*

■ **Canadian Quaternary Association (CANQUA)**

Toon Pronk
Secretary
P.O. Box 6000
Fredericton, NB E3B 5H1
(506) 453-2206, fax:(506) 444-4176
e-mail:tgpronk@gov.nb.ca
web page:www.mun.ca/geog/CANQUA
· *Interdisciplinary group devoted to the study of the Quaternary period. Publishes "Geographie Physique et Quaternaire".*

■ **Canadian Rock Mechanics Association**

Prof. D. McCreath
President
935 Ramsey Lake Rd.
Subdury, ON P3E 2C6
(905) 675-1151 ext. 2253

■ **Canadian Society of Exploration Geophysicists**

Heather Payne
Office Manager
#905, 510-5th St. SW
Calgary, AB T2P 3S2
(403) 262-0015, fax:(403) 262-7383
e-mail:cseg@cadvision
web page:www.geo.ucalgary.ca:80/cseg

■ **Canadian Society of Petroleum Geologists**

Deanna Watkins
Office Manager
#160, 540-5th Ave. SW
Calgary, AB T2P 0M2

■ **Geological Association of Canada**

Karen Johnston
Associate Secretary-Treasurer
Dept. of Earth Sciences, Rm.
ER4063, Memorial University of
Newfoundland
St. John's, NF A1B 3X5
(709) 737-7660, fax:(709) 737-2532
e-mail:gac@sparky2.esd.mun.ca
web page:www.esd.mun.ca/~gac
· *National society for the geosciences. Publishes "Geoscience Canada", "GEOLOG" & the Geotext series.*

■ **NWT Association of Professional Engineers, Geologists & Geophysicists (NAPEGG)**

Leigh Wells
Office Manager
#5, 4807-49th St.
Yellowknife, NT X1A 3T5
(867) 920-4055, fax:(867) 873-4058
e-mail:napegg@tamarack.nt.ca
web page: www.napegg.nt.ca
· *Association of professional engineers and geoscientists who work and live in the NWT.*

■ **NWT Chamber of Commerce**

Don Yamkowy
President
P.O. Box 2544
Yellowknife, NT X1A 2P8
(867) 920-4944, fax:(867) 920-4640

■ **NWT Chamber of Mines**

Mike Vaydik
Manager
P.O. Box 2818
Yellowknife, NT
(867) 873-5281, fax:(867) 920-2145

■ **NWT Construction Association**

#201, 4817-49th St.
Yellowknife, NT
(867) 873-3949, fax:(867) 873-8366

■ **Prospectors and Developers Association of Canada**

34 King St. East
Toronto, ON M5C 2X8
(416) 362-1969, fax:(416) 362-0101

■ **Quaternary Research Association**

Prof. B. Funnell
President
School of the Environment,
University of Brighton
Brighton, UK BN2 4GJ
44(0)1273- 642163, fax:44(0)1273-642392
e-mail:whiteman@brighton.ac.uk
web page:www.gra.org.uk/
· *International interdisciplinary group interested in the Quaternary period. Publishes the "Journal of Quaternary Science", the monograph series Quaternary Proceedings, the Field Guide Series and the Technical Guides Series.*

GOVERNMENT SOURCES

GOVERNMENT of the NORTHWEST TERRITORIES

■ Dept. of Education, Culture and Employment

Prince of Wales Northern Heritage Centre

Tom Andrews
Sub-Arctic Archaeologist
P.O. Box 1320
Yellowknife, NT X1A 2L9
(867) 873-7551, fax:(867) 873-0205
e-mail:tom_andrews@ece.learnnet.nt.ca
· *archaeological site protection*

- Dept. of Resources, Wildlife and Economic Development

Minerals, Oil & Gas Division

Doug Matthews
Director
P.O. Box 1320
Yellowknife, NT X1A 2L9
(867) 920-3214, fax:(867) 873-0254
e-mail:doug_matthews@gov.nt.ca

- Dept. of Transportation

Highways

Rob Nelson
Director
P.O. Box 1320
Yellowknife, NT X1A 2L9
(867) 920-7800, fax:(867) 873-0288
e-mail:rob_nelson@gov.nt.ca
· *major extractor· project-specific extraction*

GOVERNMENT OF CANADA

- Dept. of Canadian Heritage

Parks Canada

Gordon Hamre
P.O. Box 1166
Yellowknife, NT X1A 2N8
(867) 669-2820, fax:(867) 669-2829
e-mail:gordon_hamre@pch.gc.ca

- Dept. of Fisheries and Oceans

Habitat

Julie Dahl
Arctic Habitat Coordinator
Suite 101 Diamond Plaza
Yellowknife, NT X1A 1E2
(867) 669-4911, fax:(867) 669-4911
e-mail:dahlj@dfo-mpo.gc.ca

- Dept. of Indian Affairs and Northern Development

Environment and Conservation

Manager
P.O. Box 1500
Yellowknife, NT X1A 2R3
(867) 669-2598, fax:(867) 669-2701
· *habitat concerns & protection*

Land Administration

Annette McRobert
Regional Manager
P.O. Box 1500
Yellowknife, NT X1A 2R3
(867) 669-2671, fax:(867) 669-2713

Northern Granular Resources Program

Robert J. Gowan
Manager, Land Programs
Rm. 618, LerTerrasses de la Chaudiere, 10 Wellington, North Tower
Ottawa, ON K1A 0H4
(819) 994-7464, fax:(819) 953-2590
e-mail:gowanb@inac.gc.ca
· *legislation & policy advice*

Northern Information Network (NIN)

Les Terrasses de la Chaudiere, 10 Wellington St.
Hull, QU K1A 0H4
(819) 997-7281, fax:(819) 953-2590
e-mail:ninman@inac.gc.ca
· *A database directory of geo-referenced databases of documents pertaining to the north.*

Water Resources Division

David Milburn
Manager, Water Resources
P.O. Box 1500
Yellowknife, NT X1A 2R3
(867) 669-2650, fax:(867) 669-2716
e-mail:milburnd@inac.gc.ca

- Environment Canada

Canadian Wildlife Service

5204-50th Ave., Suite 301
Yellowknife, NT X1A 1E2
(867) 669-4700, fax:(867) 873-8185
· *habitat concerns & protection*

Environmental Protection Service

P.O. Box 2970
Yellowknife, NT X1A 2R2
(867) 920-8502, fax:(867) 873-6776
· *habitat concerns & protection*

- Natural Resources Canada

Geomatics Canada - Canada Centre for Remote Sensing, GeoAccess Division

615 Booth St.
Ottawa, ON K1A 0E9
(613) 947-1245, fax:(613) 947-2410
e-mail:oneil@nrcan.gc.ca
· *Customized map services to government departments, agencies, crown corporations and the private sector.*

Geoscience Research Library

1500-605 Robson St.
Vancouver, BC V6B 5J3
(604) 666-3812, fax:(604) 666-7186
e-mail:jbonhomm@gsc.nrcan.gc.ca
web page:www.nrcan.gc.ca/gsc
· *Offering journals, books, reports, maps and other resources in the field of earth sciences.*

Minerals & Metals Sector

Oliver Vagt
Commodity Officer
580 Booth St.
Ottawa, NT K1A 0E4
(613) 992-2667, fax:(613) 992-7731
e-mail:ovagt@nrcan.gc.ca
web page:www.nrcan.gc.ca/mms.cmy/Content/39.PDF
· *mineral commodity statistics*

OTHER SOURCES

■ **AggMan Online**

Bronwyn Weaver
Editor & Publisher
WHAM - The Minerals Information
Company, 60 York St.
Gettysburg, PA, USA 17325
(717) 337-0027, fax:(717) 337-9337
e-mail:bronwyn@aggman.com
web page:www.aggman.com
· *Publication for the aggregates
industry with 24 hour access.*

■ **Aggregates and Roadbuilding Contractor**

4999 St. Catherine St. West,
Suite 215
Westmount, QU H3Z 1T3
(514) 487-9868, fax:(514) 487-9267
e-mail:rocktoroad@sympatico.ca
web page:www.rocktoroad.com/
· *Publishes "Aggregates and
Roadbuilding Magazine: which
serves the entire aggregate and
roadbuilding industry by providing
up-to-date information.*

■ **Canadian Circumpolar Institute**

8820-112 St., University of Alberta,
3rd Floor
Edmonton, AB T6G 2E1
(403) 492-4512, fax:(403) 492-1153
e-mail:canadiancircumpolar.
institute@alberta.ca
· *Formerly the Boreal Institute for
Northern Studies, promoting and
supporting research on the
circumpolar north*

■ **Infomine**

web page:www.info-mine.com
· *Key mining site with information on
corporate information on suppliers
and service.*

■ **Reference Canada**

1-800-667-3355,
fax:(613) 941-5383
· *Talking-to-You government phone
book with information on all Federal
Government Departments,
programs and services.*

INDEXES

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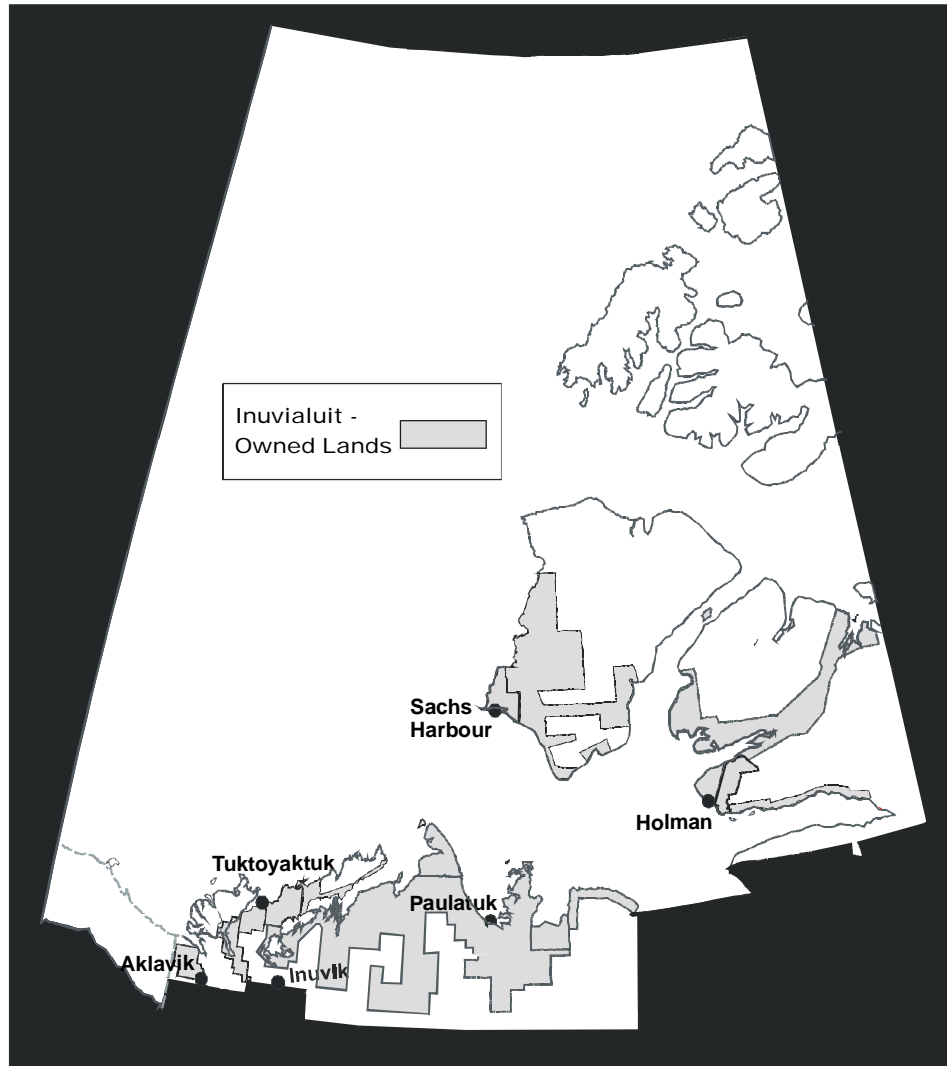
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INUVIALUIT SETTLEMENT REGION



KEY DEFINITIONS

A **pit** is any site where unconsolidated earth materials such as topsoil, sand and/or gravel resources are extracted. Since sand and gravel deposits are often found together, both can usually be extracted from the same pit.

Extraction and processing activities are similar for sand and gravel operations. Pit depths vary but rarely exceed 5 to 7 metres. Pit sizes typically range from 1 to 2 hectares (ha) but occasionally are larger, involving 10 to 20 ha or more. Most sand and gravel pits are located near the site where the materials will eventually be used, because the major cost of supply is in the transportation required.

Quarries are any sites used for the extraction of building products or construction material from bedrock, such as

limestone, shale, sandstone, or granite. Quarries may also be used as to manufacture crushed rock or other specific types of aggregate.

Borrow pits are often excavated to provide low quality fill for construction activities such as roadbed building and landscaping. Fill of this type is usually removed from a nearby borrow pit and then compacted on the site as a base for other construction.

Clay and marl pits are usually opened for special situations. As clay can help reduce seepage, it is often used to line dugouts, water reservoirs, sewage lagoons or ditches. Marl or bog lime may be used to reduce the acidity of soils or waters and is often added to mine tailing ponds.