

**GWICH'IN LAND AND WATER BOARD
LAND USE PERMIT APPLICATION
BOX 2018 INUVIK NT XOE OTO
PH 867 777 4954 FX 867 777 2616**

SCHEDULE 2

(Subsection 19(2) of Mackenzie Valley Land Use Regulations)

INFORMATION IN SUPPORT OF AN APPLICATION FOR A LAND USE PERMIT

NEW APPLICATION

1. APPLICANTS NAME AND MAILING ADDRESS

Gwich'in Development Corporation
1-3 Council Crescent
Box 1820
Inuvik, N.W.T.
XOE OTO

Telephone (867) 678-2331
Fax (867) 678-2332

Attention: Mr. Carl Chala

Agent for applicant: EBA Engineering Consultants Ltd.
6 - 151 Industrial Road,
Whitehorse, Yukon Y1A 2V3
Attention: Jack Dennett, P.Ge.(BC)
Tel: (867) 668-2071 ext. 30 - Fax: (867) 668-4349
e-mail: jdennett@eba.ca

2. HEAD OFFICE ADDRESS

Same as above

3. OTHER PERSONNEL

Personnel on Site: EBA Engineering Consultants 1
Contractor 2
Total Number of Persons on Site: 3

4. ELIGIBILITY

(Refer to section 18 of the Mackenzie Valley Land Use Regulations)

(a) (i) (a) (ii) (a) (iii) (b) (i) (b) (ii)

5. SUMMARY OF OPERATION

(Describe purpose, nature and location of all activities)

a) **Summary of Operation**

Purpose: The purpose of the land use is for mapping and geotechnical testing of rock for a potential quarry development. The whole study area is part of a low relief rise or elongate hillock of approximately 6 hectares in area. Land use activities in the area, including test pits and drill hole, are estimated to disturb less than 1 hectare in area.

Location: The study area is located along the northeast side of the Dempster Highway at approximate km 714. An active quarry is located southwest of the Highway at this point. (see Figure 1).

The testing methods proposed are test pitting by excavator with limited blasting of shallow pits if required, and drilling. Up to 6 test pits and 1 drill hole are proposed.

Access to the test sites within the study area would be with a wide pad excavator. An existing route along an old trail that traverses the back (northwest) side of the low ridge will be used if it remains useable (Figure 2). Access to specific sites will be overland from this trail. Remnants of other abandoned trails on the ridge are visible on air photographs.

The access trail or overland trails may require leveling in places to accommodate the passage of a tracked air drill. If vegetation removal for this purpose is required, the vegetation and organic soil layer will be carefully removed and stockpiled to rehabilitate the site once testing is complete.

The proposed geotechnical exploration program will not impact the following: dams, ditches, railroads, roads, transmission lines, pipelines, survey lines, monuments, air landing strips, trap lines or cabins. No known historical or archaeological sites have been identified; however, this should be confirmed by the appropriate agency responsible for inventorying such sites.

b) No camp is to be set-up. Personnel will be accommodated in the town of Inuvik.

6. SUMMARY of POTENTIAL ENVIRONMENTAL and RESOURCE IMPACTS

(Describe the effects of the proposed land-use operation on land, water, flora and fauna and related socio-economic impacts)

Least Environmental Impact Strategy

Test site locations will be chosen during a field reconnaissance that will be conducted prior to the field program. Access and test sites will be chosen using a least-impact strategy. Wherever possible, the path of least impact will be selected to access test sites. Test sites will be chosen along or northeast of the rounded, low-relief ridge crest, so that there will be no visual impact to the highway viewscape.

No camp, buildings, or fuel caches are to be set up. No equipment or material is to be left at the study area. Once sampling and mapping of test pits is complete, the test pits will be filled in and topped with stockpiled vegetation and surface organic soil.

Stream Crossing

A southeast flowing stream channel adjacent to the highway will be crossed to access the site. The stream drains a poorly drained lowland (swamp) located adjacent to and west of the study area. It flows to Campbell Lake, located 4 km downstream. The stream channel may potentially be discontinuous in the upper reaches where the crossing will occur. A crossing location will be chosen to minimize impact (e.g., where the channel is narrow and confined, or where it is discontinuous). If water is flowing in the stream channel, a temporary culvert or suitable corduroy material will be placed in the channel to mitigate channel impact; or an alternate methodology will be applied as directed by the applicable regulatory agency.

Investigation sites will be selected to avoid environmentally sensitive features. If minor impact is anticipated, design features will be developed to mitigate impacts.

7. PROPOSED RESTORATION PLAN

Disturbance to the area will consist of the digging of test pits (4 to 6 pits are estimated); drilling a dry borehole; and minimal disturbance to allow tracked equipment to the various test sites access by trails.

Once mapped and sampled, test pits will be filled in with the excavated material removed. The pit site will be capped by the organic soil and/or vegetation mat that was removed and stock-piled prior to pit excavation.

The drill hole is expected to be 15 to 20 centimetres in diameter at the surface. Some borehole cuttings will be shoveled back into the hole. The remaining cuttings will be spread over the ground surface. The hole will be plugged with a tree trunk or boulder.

If channel banks are disturbed at the proposed stream crossing, they will be contoured to their original configuration upon leaving the site. If a culvert or corduroy infill is used for the stream crossing, it will be removed upon leaving the site.

8. OTHER RIGHTS, LICENSES OR PERMITS RELATED TO THIS PERMIT APPLICATION

(Mineral rights, timber permits, water licenses, etc.)

No mineral rights have been applied for. It is understood that the Gwich'in First Nation has prior rights to the aggregate reserves at the study area. No timber permits are applicable. There will be no water use or disposal as a result of the proposed operation and no water license has been applied for.

A permit to Access Gwich'in Settlement Lands is being applied for concurrent with this application.

ROADS:

No roads are to be constructed to carry out the proposed testing program. Existing trails will be used where possible. New trails will be used to provide access for tracked vehicles, and access will require minimal or negligible alteration of the terrain.

9. PROPOSED DISPOSAL METHODS

- a) **Garbage** Negligible garbage will be generated by the proposed activities. All sites evaluated during the field program will be maintained free of litter and all used materials will be kept with the equipment for removal upon demobilization. Such garbage will be collected and removed to a suitable landfill or other approved disposal site.
- b) **Sewage (Sanitary and grey water)** No formal sewage facilities will be required on site. Crews will be based in Inuvik and work will be completed within 1 to 2 days.
- c) **Bush and trees** No significant vegetation is to be disturbed. Cutting of trees is not anticipated. In the event a tree is cut to permit machinery access, it will be limbed and bucked up in place.
- d) **Overburden (organic soils, waste material, etc.)** No removal of overburden will be undertaken.

10. EQUIPMENT

(Includes drills, pumps, etc.)

Type and Number	Size	Proposed Use
<u>300 series excavator</u>	<u>300 ton</u>	<u>Break trails; excavate test pits</u>
<u>air track quarry drill</u>	<u>6 inch</u>	<u>Drill test borehole</u>

11. FUEL

Diesel	No fuel of any kind will be stored at the study area. Fuel required for equipment is expected to be limited to internal fuel tanks on the equipment. If re-fuelling is required, diesel fuel will be transferred to equipment from a tidy tank at the trailhead.
Gasoline	
Aviation fuel	
Propane	
Other	

12. CONTAINMENT FUEL SPILL CONTINGENCY PLANS

- On-site fuel or hydraulic oil will be limited to that contained in the on-board, integral fuel tanks of the equipment.
- Any potential spill would be of a small volume and would immediately be contained with a berm constructed by on-site equipment or by hand with shovels kept at the site.
- A spill kit will be kept on-board the equipment and will provide an immediate source of absorbent pads in the event of a small spill.
- Contaminated absorbent pads would be removed from the construction site for disposal in a manner that satisfies regulatory requirements.
- In the event of a fuel spill, the spill will be reported to the appropriate regulatory agency. The 24-hour emergency report telephone numbers for oil spills or other environmental emergencies are (867) 920-8130 or (867) 873-6924.
- Canada Department of Environment, telephone (867) 667-3400.

13. METHODS of FUEL TRANSFER

Fuel required for equipment is expected to be limited to internal fuel tanks on the equipment. If re-fuelling is required, diesel fuel will be transferred to equipment from a tidy tank at the trailhead.

14. PERIOD OF OPERATION

(Includes time to cover all phases of project applied for, including restoration.)

Two days are estimated to complete the work, including restoration. The work is dependent on snow cover and ground conditions, and is proposed to be completed in May.

15. PERIOD OF PERMIT

Start Date May 1, 2002

Completion Date August 1, 2002

16. LOCATION OF ACTIVITIES BY MAP COORDINATES

Minimum latitude (degree, minute)

68° 18' 30"

Maximum latitude (degree, minute)

68° 19' 00"

Minimum longitude (degree, minute)

133° 19' 30"

Maximum longitude (degree, minute)

133° 20' 30"

Map Sheet Number 107B/7

17. APPLICANT

Name Mr. Carl Chala

Signature _____



for Gwich'in Development Corporation

Date _____

Apr. 11/02

18. FEES

Type A

\$150

\$ _____

Type B

\$150

\$ _____

Land Use Fees _____ hectares @ \$50.00/hectare

\$ _____

Assignment fee

\$50

\$ _____

FOR OFFICE USE ONLY

Application Fee

Amount: \$ _____

Receipt No.: _____

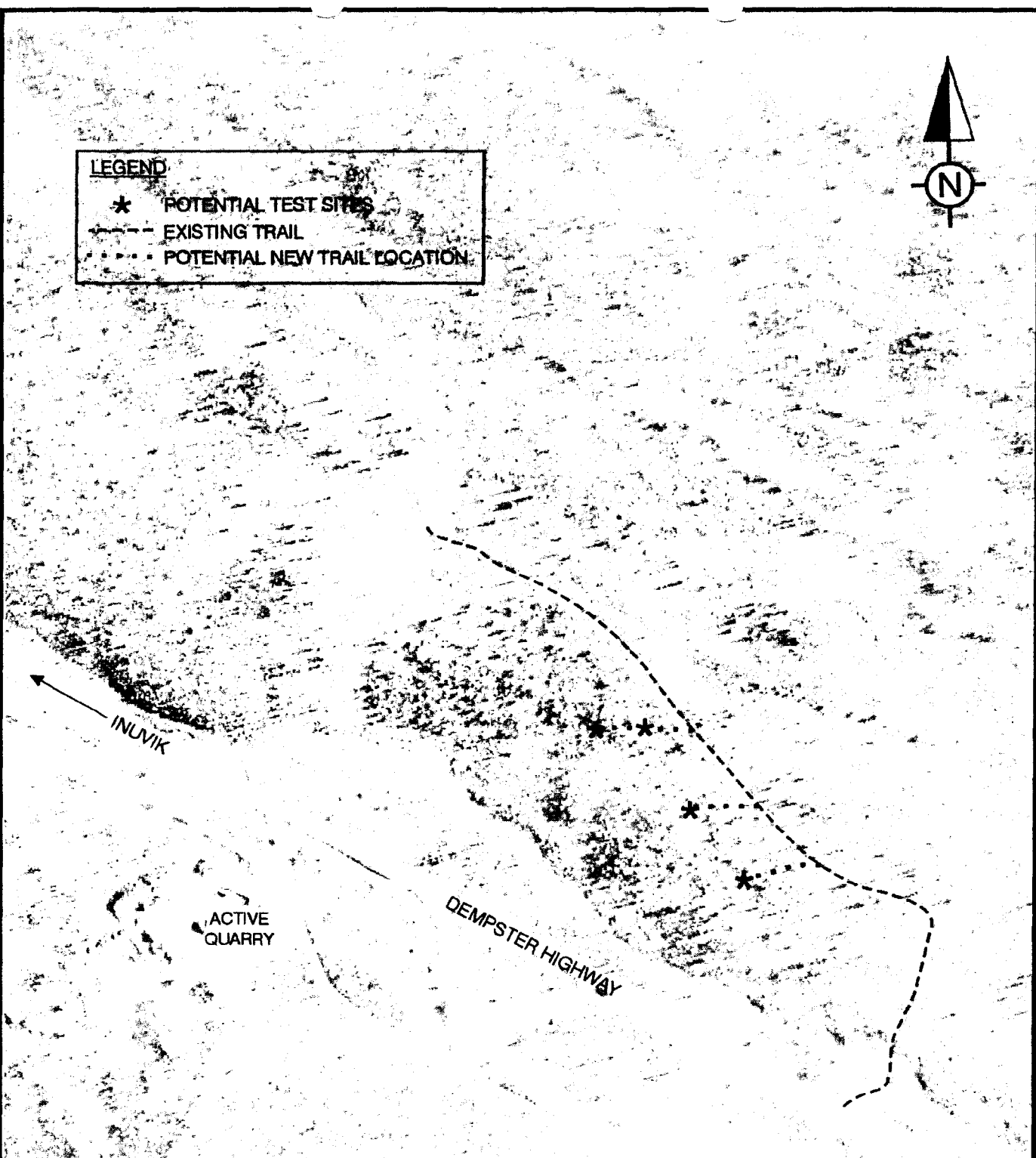
Water Use Deposit


Amount: \$ _____

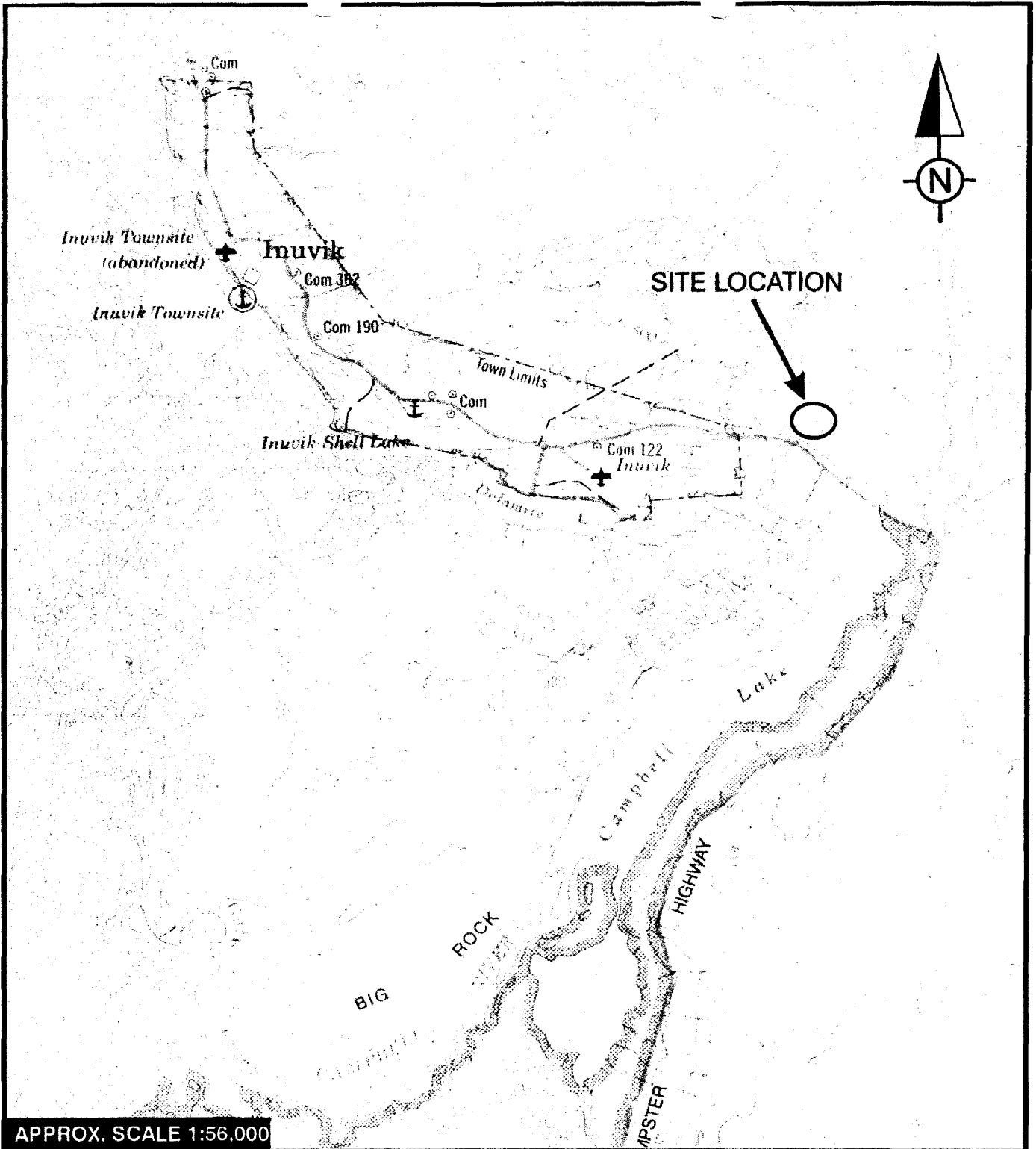
Receipt No.: _____

LEGEND


- * POTENTIAL TEST SITES
- - - EXISTING TRAIL
- · · · POTENTIAL NEW TRAIL LOCATION



 EBA Engineering Consultants Ltd.		PROJECT: QUARRY SITE EVALUATION km 714 DEMPSTER HWY. - INUVIK, N.W.T.			
CLIENT: GWICH'IN DEVELOPMENT CORP.		TITLE: CONCEPTUAL PLAN OF TEST SITES			
DATE: April, 2002	DWN: JSB	CHKD: JTD	FILE NO.: 0201-120008	DWNG: FIGURE 2	REVISION:



APPROX. SCALE 1:56,000

 EBA Engineering Consultants Ltd.	PROJECT: QUARRY SITE EVALUATION km 714 DEMPSTER HWY. - INUVIK, N.W.T.		
CLIENT: GWICH'IN DEVELOPMENT CORP.	TITLE: SITE LOCATION MAP		
DATE: April, 2002	DWN: JSB	CHKD: JTD	FILE NO.: 0201-1200008
		DWNG: FIGURE 1	REVISION: