

Gwich'in Land and Water Board

SCHEDULE II

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

INFORMATION IN SUPPORT OF AN APPLICATION FOR A LAND USE PERMIT



New Application (Tower Site near Fort McPherson)



Amendment

1. Applicant's name and mailing address

NorthwesTel Inc.
301 Lambert St.
Whitehorse YT Y1A 4Y4

Fax no.

(867) 668-6285

2. Head office address

NorthwesTel Inc.
301 Lambert St.
Whitehorse YT Y1A 4Y4

Field supervisor

Glenn Bushell
Manager, Contracts and Support
NWTel Inc.

Radio telephone no.

Sat Phone: (403) 977-4567

Telephone no.

(867) 668-5385

Fax no.

(867) 668-6285

3. Other personnel (subcontractor, contractors, company, staff, etc.)

The approximate number expected to be on site is:

Tower firm = 5 people. Antenna Crew = 4 people. Engineering Geotechnical = 4 people (EBA)

Road Survey Crew = 3 people

Building Setup Crew = 4 people

Road Construction Crew = 10 people

Power/Electrical Crew = 2 people

Telecommunications Crew = 3 people

The maximum number of people onsite at any one time would be during the road construction period = 10 personnel.

4. Eligibility

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

(a) (i)

(a) (ii)

(a) (iii)

(b) (i)

(b) (ii)

5. a) Summary of operation (describe purpose, nature and location of all activities)

(Refer to paragraph 19 (3) (b) of the Mackenzie Valley Land Use Regulations.)

Please refer to Section 1 of the attached document: Supporting Documentation Northwest Microwave Tower Site kilometre 106.7 Dempster Highway Near Fort McPherson (Supporting Document)

A summary is as follows:

The purpose of constructing a microwave tower in the Fort McPherson region is to provide a more reliable and modern public telecommunications system to the Gwich'in Settlement Area.

The proposed location for the Fort McPherson tower is 67° 25' 36.00" N and 134° 29' 05.00" W. An access road will be constructed at approximately km 106.7, on the east side of the Dempster Highway to reach the site. This road will be approximately 370 metres in length. The required size of the lease is 3.34 hectares (183 m x 183 m) for the tower site. The entire footprint, including the proposed access is 3.71 ha.

The project would consist of establishment of access to the tower site, construction of a pad for the microwave tower, erection of a 66.0 metre tower, erection of two pre-fabricated buildings to house equipment, fuel storage, and erection of a fence around the infrastructure. Power and radio equipment will be inspected every 4-6 months. Access roads will be maintained. Refuelling will occur every 2-3 years. Generators will be used to power the batteries on site. For complete details of operations please refer to section 1.4 in the supporting document.

b) Indicate if a camp is to be set up (Provide details on a separate page, if necessary.)

No camp will be required (identified in Section 1.4.1.8 of the document: Supporting Documentation NorthwesTel Microwave Tower Site kilometre 106.7 Dempster Highway Near Fort McPherson.

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). (Use separate page if necessary.)

Potential impacts are summarized in Section 4 of the attached document: Supporting Documentation NorthwesTel Microwave Tower Site kilometre 106.7 Dempster Highway Near Fort McPherson.

7. Proposed restoration plans (Use separate page if necessary).

Please refer to Section 1.4.3 the attached document: Supporting Documentation NorthwesTel Microwave Tower Site kilometre 106.7 Dempster Highway Near Fort McPherson.

When the site is no longer required, all site facilities will be removed. Culverts will be removed from the access roads and all gravel surfaces will be scarified and seeded.

8. Other rights, licences or permits related to this permit application (mineral rights, timber permits, water licences, etc.)

Application to Access Gwich'in Owned Lands (Gwich'in Land Administration)
Transport Canada Approval under General Operating and Flight Rules Standards (Transport Canada)
Application to Access Highway (Department of Transportation, GNWT)
Burn Permit (Department of Resources, Wildlife and Economic Development, GNWT)

Roads:

Is this to be a pioneered road? Yes

Has the route been laid out or ground truthed?

Access to the site will be off the Dempster Highway. A 370 m access road from the Dempster Highway to the tower site will be constructed. Gravel will be obtained from the Frog Creek quarry pit 21 km away located at km 126 along the Dempster Highway. Refer to Figure II-1, Appendix II in the supporting documentation for the road profile.

<p>9. Proposed disposal methods</p> <p>a) Garbage: Construction: All construction waste will be regularly removed from the site and deposited in the Fort McPherson landfill site. Food and food container wastes will be removed daily from site. Operation: No garbage will be generated during operation. During any maintenance activities, materials used will be removed from site.</p>	<p>b) Sewage (sanitary and grey water): Construction: A portable sanitary facility will be installed on site for the construction period. No grey water will be generated during construction. Operation: No sewage or grey water generated during operation.</p>
<p>c) Brush and trees: Burn or salvage larger trees. Brush and trees will be cut by hand. Larger timber will be available to the community for use. Any timber remaining at the end of the construction period will be burned. Brush will be burned.</p>	<p>d) Over burden (organic soils, waste material, etc.): Geotextile to be used to minimize disruption and overburden. In areas where stripped, use as resloping material and recontour side slopes and site pad area.</p>

10. Equipment (includes, drills, pumps, etc.)
(Use separate page if necessary).

Track machine – 12,000 pounds. Foundation air track machine for pile installation.
Crane Tractor-trailer unit – 65,000 pounds. Tower and antenna supply/installation.
D6 – 125 Hp, 39,700 pounds – Skid buildings and tank facilities to site and for road and site pad construction activities.
D8 – 305 Hp, 81,634 pounds – Skid buildings and tank facilities to site
D7 – 230 Hp, 54,600 pounds – Road and site pad construction activities
Grader G720 – 34,000 pounds – Road and site pad construction activities
Packer Vibrator – 13,860 pounds – Road and site pad construction activities
3 ¾ Tonne Pickups – 5,500 pounds/unit – Daily crew access
Drill Unit: Track machine – 7,500 pounds – Engineering design and geotechnical investigation.

Type and Number		Size	Proposed Use
See above			
11. Fuels	No. of Containers	Capacity of Containers	Location
Diesel	2 EnviroTanks	13, 834 litres	Within the fenced area of the site. Refer to Figure II-4, Appendix II of the attached supporting documentation.

<p>12. Containment fuel spill contingency plans. (Attach separate contingency plan if necessary.)</p> <p>Contract will be awarded in June 2003 for construction. Spill contingency plan for the construction phase will be a requirement of the successful bidder.</p> <p>ATCO FRONTEC is NorthwesTel's contractor during operation. Spill Contingency Plan is found in Appendix III of attached document: Supporting Documentation NorthwesTel Microwave Tower Site kilometre 106.7 Dempster Highway Near Fort McPherson.</p>												
<p>13. Methods of fuel transfer (to other tanks, vehicles, etc.)</p> <p>All site tanks have top feeds and are pumped systems. Construction – Pumped from fuel truck. Operation – Pumped from fuel truck.</p>												
<p>14. Period of operation (includes time to cover all phases of project work applied for, including restoration.)</p> <p>2003 onwards. Application for a lease has been made to the Gwich'in Land Administration. NorthwesTel intends to renew its lease upon expiry.</p>												
<p>15. Period of permit (up to five years, with maximum of two years of extension)</p> <p>Start Date: 2003 Completion Date: 2008</p>												
<p>16. Location of activities by map co-ordinates (attach maps and sketches)</p> <p>Appendix I in supporting documentation shows location in topographical format.</p> <table border="0"> <tr> <td>Minimum latitude (degree, minute)</td> <td>Maximum latitude (degree, minute)</td> </tr> <tr> <td>67-25-36N</td> <td>67-25-36N</td> </tr> <tr> <td>Minimum longitude (degree, minute)</td> <td>Maximum longitude (degree, minute)</td> </tr> <tr> <td>134-29-05W</td> <td>134-29-05W</td> </tr> </table> <p>Map sheet no. 106 M/8 (1:50 000)</p>					Minimum latitude (degree, minute)	Maximum latitude (degree, minute)	67-25-36N	67-25-36N	Minimum longitude (degree, minute)	Maximum longitude (degree, minute)	134-29-05W	134-29-05W
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134-29-05W	134-29-05W											

17. Applicant: Glenn Bushell

(Print name in full)

Signature 

Date April 4/2003

18. Fees



Type A - \$150.00



Type B - \$150.00

Land Use Fees: \$150.00

2 Hectares @ \$50.00/hectare = \$100.00

Assignment Fee: \$0.00

Total = \$250.00