

TITLE	Application for Land Use Permits for Land within the Municipal Boundaries of Norman Wells, Fort Good Hope and Tulita
SECTION	Appendices
SUBJECT	A: Calculation of Land Area Requirements

Table A-1 provides a summary of the land area required for the proposed development activities on lands within municipal boundaries. The grand totals in Table A-1 include the temporary workspace requirements.

Table A-1: Land Area Requirements

	Location	Approximate Kilometre Post (KP)	Area (ha)	All-Weather Access (km)	Winter Access (km)	Access (ha)
Infrastructure						
	FGH summer stockpile	341.9	2.3	2.3	0.0	4.6
	Fort Good Hope barge	341.9	0.6	0.6	0.0	1.2
	Norman Wells camp	482.7	19.1	0.0	0.0	0.0
	Norman Wells storage	482.7	5.8	0.0	0.0	0.0
Infrastructure total			27.8	2.9	0.0	5.8
Granular						
	6.080P	332.9	31.8	0.0	2.0	4.0
	6.077P	332.9	7.2	0.0	0.9	1.8
	20.113P Access	335.5	-	0.0	2.0	4.0
	7.049P	476.3	30.0	0.0	0.8	1.6
	7.054P	476.3	8.9	0.0	2.7	5.4
	7.057P	482.7	530.5	0.0	0.0	0.0
Granular total			608.4	0.0	8.4	16.8
Pipeline						
9.6 km of NPS 10 & 30 Pipe	50 m wide ROW	-	48.0	-	-	-
13.5 km of NPS 30 Pipe	40 m wide ROW	-	54.0	-	-	-
1.4 km NPS 10 Pipe	30 m wide ROW	-	4.2	-	-	-

Table A-1: Land Area Requirements (cont'd)

	Location	Approximate Kilometre Post (KP)	Area (ha)	All-Weather Access (km)	Winter Access (km)	Access (ha)
Pipeline (cont'd)						
	P/L Shoofly	328.1	-	0.0	2.7	5.4
	Water Source 140	332.9	-	0.0	0.6	1.2
	Water Source 141	338.0	-	0.0	0.2	0.4
	Water Source Mackenzie River	341.9	-	0.0	0.0	0.0
	Water Source Mackenzie River	476.3	-	0.0	1.0	2.0
	P/L Shoofly	538.6	-	0.0	2.6	0.0
	P/L Shoofly	557.0	-	0.0	4.0	8.0
	P/L Shoofly	569.9	-	0.0	41.5	0.0
Pipeline total			106.2	0.0	52.6	17.0
Facilities						
	Norman Wells Compressor	475.7	9.5	0.9	0.0	1.8
Facility total			9.5	0.9	0.0	1.8
Temporary Workspace						
	Location	Number of Locations	Area (ha)	All-Weather Access (km)	Winter Access (km)	Access (ha)
Fort Good Hope	Watercourse Crossings	2	2.0	0.0	0.0	0.0
	Block Valves	2	0.9	0.0	0.0	0.0
	Truck Turnarounds	0	0.0	0.0	0.0	0.0
	Cross Slopes	8	1.0	0.0	0.0	0.0
	Pipeline Crossings	0	0.0	0.0	0.0	0.0
	Road Crossings	0	0.0	0.0	0.0	0.0
	Laydown Area	0	0.0	0.0	0.0	0.0
	Sidebends	0	0.0	0.0	0.0	0.0

Table A-1: Land Area Requirements (cont'd)

	Location	Number of Locations	Area (ha)	All-Weather Access (km)	Winter Access (km)	Access (ha)
Temporary Workspace (cont'd)						
Norman Wells	Watercourse Crossings	4	2.4	0.0	0.0	0.0
	Block Valves	0	0.0	0.0	0.0	0.0
	Truck Turnarounds	0	0.0	0.0	0.0	0.0
	Cross Slopes	12	1.6	0.0	0.0	0.0
	Pipeline Crossings	0	0.0	0.0	0.0	0.0
	Road Crossings	1	0.5	0.0	0.0	0.0
	Laydown Area	1	3.2	0.0	0.0	0.0
	Sidebends	0	0.0	0.0	0.0	0.0
Workspace total		30	11.6	0.0	0.0	0.0
Grand Totals						
	Total Area (ha)		Site Area (ha)	All-Weather Access (km)	Winter Access (km)	Access Area (ha)
	804.9		763.5	3.8	61.0	41.4

