

TITLE	DCR Application for a Type A Water Licence
SECTION	Appendices
SUBJECT	A: Calculation of Water Requirements

The water requirements for the various pipeline activities in the DCR are shown in:

- [Table A-1: Water Requirements for Winter Access Roads](#)
- [Table A-2: Water Requirements for Pipeline Right-of-Way Travel Lanes](#)
- [Table A-3: Water Requirements for Pipeline Testing](#)
- [Table A-4: Water Requirements for the Blackwater River Compressor Station](#)
- [Table A-5: Water Requirements for the Ochre River Infrastructure Site](#)
- [Table A-6: Water Requirements for the Camsell Bend Infrastructure Site](#)
- [Table A-7: Water Requirements for the Trail River Facility Site](#)
- [Table A-8: Water Requirements for the McGill Station Infrastructure Site](#)
- [Table A-9: Water Requirements for the Trout River Heater Station](#)
- [Table A-10: Water Requirements for the Trout Lake Infrastructure Site](#)
- [Table A-11: Water Requirements for Pipeline HDD Watercourse Crossings](#)
- [Table A-12: Total Water Requirements for the DCR](#)

Table A-1: Winter Access Road Water Requirements

Description	Water Requirements	
	Total Annual Volume	Average Daily Volume
Winter road construction water requirements	69,600 m ³ /year	1,160 m ³ /day
Total water requirements over 3 years	208,800 m³	
NOTE: Average daily volume is total annual volume averaged over a 60-day winter road construction period.		

Table A-2: Water Requirements for Pipeline Right-of-Way Travel Lanes

Description	Water Requirements	
	Total Annual Volume	Average Daily Volume
Right-of-way travel lane water requirements	354,000 m ³ /year	5,900 m ³ /day
Total water requirements over 3 years	1,062,000 m³	
NOTE: Average daily volume is total annual volume averaged over a 60-day winter construction period.		

Table A-3: Water Requirements for Pipeline Testing

Description	Water Requirements	
	Total Volume	Average Daily Volume
521.7 km of 762 mm OD (NPS 30) gas pipe	4,500 m ³	N/A
Total water requirements for pressure testing	4,500 m³	
NOTE Average daily volume is total volume averaged over six days.		

Table A-4: Water Requirements for the Blackwater River Compressor Station

Description	Water Requirements	
	Total Annual Volume	Average Daily Volume
Site specific water requirements year 1	50 m ³ /year	1 m ³ /day
Site specific water requirements year 2	3,500 m ³ /year	10 m ³ /day
Site specific water requirements year 3	3,550 m ³ /year	10 m ³ /day
Total water requirements over 3 years	7,100 m³	
NOTE: Average daily volume is total annual volume averaged over 365 days.		

Table A-5: Water Requirements for the Ochre River Infrastructure Site

Description	Water Requirements	
	Total Annual Volume	Average Daily Volume
Site specific water requirements year 1	600 m ³ /year	2 m ³ /day
Site specific water requirements year 2	27,100 m ³ /year	74 m ³ /day
Site specific water requirements year 3	27,700 m ³ /year	76 m ³ /day
Total water requirements over 3 years	55,400 m³	
NOTE: Average daily volume is total annual volume averaged over 365 days.		

Table A-6: Water Requirements for the Camsell Bend Infrastructure Site

Description	Water Requirements	
	Total Annual Volume	Average Daily Volume
Site specific water requirements year 1	600 m ³ /year	2 m ³ /day
Site specific water requirements year 2	27,100 m ³ /year	74 m ³ /day
Site specific water requirements year 3	27,700 m ³ /year	76 m ³ /day
Total water requirements over 3 years	55,400 m³	
NOTE: Average daily volume is total annual volume averaged over 365 days.		

Table A-7: Water Requirements for the Trail River Facility Site

Description	Water Requirements	
	Total Annual Volume	Average Daily Volume
Site specific water requirements year 1	50 m ³ /year	1 m ³ /day
Site specific water requirements year 2	3,500 m ³ /year	10 m ³ /day
Site specific water requirements year 3	3,550 m ³ /year	10 m ³ /day
Total water requirements over 3 years	7,100 m³	
NOTE: Average daily volume is total annual volume averaged over 365 days.		

Table A-8: Water Requirements for the McGill Station Infrastructure Site

Description	Water Requirements	
	Total Annual Volume	Average Daily Volume
Site specific water requirements year 1	600 m ³ /year	2 m ³ /day
Site specific water requirements year 2	27,100 m ³ /year	74 m ³ /day
Site specific water requirements year 3	27,700 m ³ /year	76 m ³ /day
Total water requirements over 3 years	55,400 m³	
NOTE: Average daily volume is total annual volume averaged over 365 days.		

Table A-9: Water Requirements for the Trout River Heater Station

Description	Water Requirements	
	Total Annual Volume	Average Daily Volume
Site specific water requirements year 1	N/A	N/A
Site specific water requirements year 2	900 m ³ /year	2 m ³ /day
Site specific water requirements year 3	900 m ³ /year	2 m ³ /day
Total water requirements over 3 years	1,800 m³	
NOTE: Average daily volume is total annual volume averaged over 365 days.		

Table A-10: Water Requirements for the Trout Lake Infrastructure Site

Description	Water Requirements	
	Total Annual Volume	Average Daily Volume
Site specific water requirements year 1	600 m ³ /year	2 m ³ /day
Site specific water requirements year 2	12,900 m ³ /year	35 m ³ /day
Site specific water requirements year 3	13,500 m ³ /year	37 m ³ /day
Total water requirements over 3 years	27,000 m³	
NOTE: Average daily volume is total annual volume averaged over 365 days.		

Table A-11: Water Requirements for Pipeline HDD Watercourse Crossings

Description	Water Requirements	
	Total Annual Volume	Average Daily Volume
HDD watercourse crossings	15,700 m ³ /year	Not applicable
NOTE: Average daily volume is total annual volume averaged over 365 days.		

Table A-12: Total Water Requirements for the DCR

Description	Water Requirements	
	Total Volume	Average Daily Volume ^a
Winter road construction water requirements	69,600 m ³ /year	1,160 m ³ /day
Right-of-way travel lane water requirements	354,000 m ³ /year	5,900 m ³ /day
Pipeline testing water requirements	4,500 m ³	750 m ³ /day
Blackwater River Compressor Station Camp Water Requirements	3,550 m ³ /year ^b	10 m ³ /day
Ochre River Camp Water Requirements	27,700 m ³ /year ^b	76 m ³ /day

Table A-12: Total Water Requirements for the DCR (cont'd)

Description	Water Requirements	
	Total Volume	Average Daily Volume ^a
Camsell Bend Camp Water Requirements	27,700 m ³ /year ^b	76 m ³ /day
Trail River Compressor Station Camp Water Requirements	3,550 m ³ /year ^b	10 m ³ /day
McGill Station Camp Water Requirements	27,700 m ³ /year ^b	76 m ³ /day
Trout River Heater Station Camp Water Requirements	900 m ³ /year ^b	2 m ³ /year
Trout Lake Camp Water Requirements	13,500 m ³ /year ^b	37 m ³ /day
Pipeline HDD watercourse crossings	15,700 m ³ /year	-
Total water requirements	548,400 m³ ^c	8,097 m³/day^c
NOTE: ^a A hyphen indicates volume is not applicable. ^b Maximum yearly total ^c Total water requirements include the single amount of pipeline testing water (4,500 m ³).		

Table B-1: Land Use Designation of Proposed Development Activities

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Access Roads					
D-B1-W-9.044PA	700.4	-	Pehdzéh Ki Deh	-	No withdrawal
D-B1-W-9.044PB	700.4	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-9.091P	702.1	-	Pehdzéh Ki Deh	-	Surface/Subsurface
D-F-A-702.1	702.1	-	Pehdzéh Ki Deh	-	No withdrawal
D-PS-W-702.3	702.1	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-10.001P	704.1	-	Pehdzéh Ki Deh	-	No withdrawal
D-WS-W-MR-709.9	709.9	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-10.003P	710.4	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-10.004P	712.1	-	Pehdzéh Ki Deh	-	No withdrawal
D-B1-W-10.007P	728.0	-	Pehdzéh Ki Deh	-	No withdrawal
D-PL-W-739.6	739.6	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-10.013P	747.4	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-10.014AP	750.2	-	Pehdzéh Ki Deh	-	No withdrawal
D-WS-W-DCN2	750.2	-	Pehdzéh Ki Deh	-	No withdrawal
D-WS-W-165	754.6	-	Pehdzéh Ki Deh	-	No withdrawal
D-B1-W-10.020P	757.2	-	Pehdzéh Ki Deh	-	No withdrawal
D-BL-A-757.2	757.2	-	Pehdzéh Ki Deh	-	No withdrawal
D-C-W-757.2	757.2	-	Pehdzéh Ki Deh	-	No withdrawal
D-B1-W-10.022Pb	759.6	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-10.022Pa	759.6	-	Pehdzéh Ki Deh	-	No withdrawal
D-WS-W-I-12	766.4	-	Pehdzéh Ki Deh	-	No withdrawal
D-PL-W-767.4	767.4	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-10.037P	790.3	-	Pehdzéh Ki Deh	-	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Access Roads (cont'd)					
D-B2-W-10.120P	790.3	-	Pehdzéh Ki Deh	-	Surface/Subsurface, Subsurface, No withdrawal
D-WS-W-166	790.3	-	Pehdzéh Ki Deh	-	No withdrawal
D-B1-W-10.043P	796.4	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-10.044BP	798.1	-	Pehdzéh Ki Deh	-	No withdrawal
D-WS-W-DCN5	798.1	-	Pehdzéh Ki Deh	-	No withdrawal
D-WS-W-MR-803.0	803.0	-	Pehdzéh Ki Deh	-	No withdrawal
D-WS-W-DCN6	804.9	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-10.055P	810.7	-	Pehdzéh Ki Deh	-	No withdrawal
D-B2-W-10.071P	826.7	-	Pehdzéh Ki Deh	-	No withdrawal
D-BL-A-830.2	830.2	-	Pehdzéh Ki Deh	-	No withdrawal
D-PS-A-830.2	830.2	-	Pehdzéh Ki Deh	-	No withdrawal
D-PS-W-830.2	830.2	-	Pehdzéh Ki Deh	-	No withdrawal
D-B1-W-10.072P	834.3	-	Sibbeston Plains	-	No withdrawal
D-WS-W-DCN7	839.8	-	Sibbeston Plains	-	No withdrawal
D-B1-W-20.015P	855.9	-	Edézhzhíe	-	No withdrawal
D-B1-W-11.019Pa	880.0	Fort Simpson	-	General Use	No withdrawal
D-B1-W-11.019Pb	880.0	Fort Simpson	Sibbeston Plains	-	No withdrawal
D-WS-W-167	885.9	Fort Simpson	-	General Use	No withdrawal
D-B1-W-11.033P	895.5	Fort Simpson	-	General Use	No withdrawal
D-WS-W-168	901.4	Fort Simpson	-	General Use	No withdrawal
D-B1-A-11.055PB	928.8	-	Sibbeston Plains	-	Surface/Subsurface
D-BL-A-927.8	927.8	-	Sibbeston Plains	-	Surface/Subsurface
D-F-A-927.8	927.1	Fort Simpson	Sibbeston Plains	-	No withdrawal
D-WS-W-169	943.4	Fort Simpson	-	General Use	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Access Roads (cont'd)					
D-B2-W-20.018P	947.9	Fort Simpson	Sibbeston Plains	-	Surface/Subsurface, Subsurface, No withdrawal
D-WS-W-170	947.9	-	Sibbeston Plains	-	Surface/Subsurface
D-B2-W-11.067P	954.2	Fort Simpson	Sibbeston Plains	-	Surface/Subsurface, Subsurface, No withdrawal
D-B2-W-11.071P	982.5	-	Sibbeston Plains, Special Infrastructure Corridor	-	No withdrawal
D-B1-W-11.174Pa	1010.3	Jean Marie, Special Infrastructure Corridor	-	-	Subsurface
D-B1-W-11.174Pb	1010.3	Jean Marie	-	-	Subsurface
D-WS-W-171	1039.4	Jean Marie, Special Infrastructure Corridor	-	-	Surface/Subsurface, Subsurface
D-B1-W-20.064P	1121.1	Trout River	Sambaa K'e/ Redknife River	-	No withdrawal
D-B2-W-20.002P	1121.1	Trout River	-	-	No withdrawal
WINTER ROAD	1121.1	-	Sambaa K'e/ Redknife River, Special Infrastructure Corridor	-	Surface/Subsurface, Subsurface, No withdrawal
D-B1-W-20.004PC	1167.9	-	Sambaa K'e/ Redknife River, Special Infrastructure Corridor	-	Surface/Subsurface, Subsurface
D-WS-W-173	1168.2	-	Sambaa K'e/ Redknife River	-	Surface/Subsurface

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Access Roads (cont'd)					
D-B1-W-20.004PA	1168.5	-	Sambaa K'e/ Redknife River, Special Infrastructure Corridor	-	Surface/Subsurface, Subsurface
D-B2-W-20.006P	1185.7	Cameron Hills/ Blackstone/ Arrowhead River, Special Infrastructure Corridor	-	-	No withdrawal
D-B2-W-20.008P	1202.0	Cameron Hills/ Blackstone/ Arrowhead River, Special Infrastructure Corridor	-	-	No withdrawal
D-B2-W-20.068P	1208.8	Cameron Hills/ Blackstone/ Arrowhead River, Special Infrastructure Corridor	-	-	No withdrawal
D-B1-W-11.021P	880.0	-	-	General Use	No withdrawal
D-B1-W-11.192P	1056.1	-	JMR Five Lakes	-	Surface/Subsurface
D-WS-W-171A	1056.1	Jean Marie	-	-	Subsurface
D-WS-W-DCN7A	880.0	Fort Simpson	-	General Use	No withdrawal
D-WS-W-MR-704.1	704.1	-	Pehdzéh Ki Deh	-	No withdrawal
D-WS-W-MR-712.1	712.1	-	Pehdzéh Ki Deh	-	No withdrawal
D-WS-W-MR-728.0	728.0	-	Pehdzéh Ki Deh	-	No withdrawal
D-WS-W-MR-798.1	798.1	-	Pehdzéh Ki Deh	-	Surface/Subsurface, No withdrawal
D-WS-W-MR-948.0	948.0	-	Sibbeston Plains	-	Surface/Subsurface, Subsurface
D-WS-W-MR-954.2	954.2	-	Sibbeston Plains	-	Surface/Subsurface

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Access Roads (cont'd)					
D-WS-W-MR-982.9	982.9	-	Sibbeston Plains, Special Infrastructure Corridor	-	Surface/Subsurface, Subsurface
Borrow Sites					
9.044PA	-	-	Pehdzéh Ki Deh	-	No withdrawal
9.044PB	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.007P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.020P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.030P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.043P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.072P	-	-	Sibbeston Plains	-	No withdrawal
11.019P	-	Fort Simpson	-	General Use	No withdrawal
11.021P	-	Fort Simpson	-	General Use	No withdrawal
11.033P	-	Fort Simpson	-	General Use	No withdrawal
11.055PA	-	-	Sibbeston Plains	-	Surface/Subsurface
11.055PB	-	-	Sibbeston Plains	-	Surface/Subsurface
11.071P	-	Special Infrastructure Corridor	Sibbeston Plains	-	Subsurface
11.174P	-	Jean Marie	-	-	Subsurface
11.192P	-	Jean Marie	JMR Five Lakes	-	Surface/Subsurface
11.204PA	-	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
11.204PB	-	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
20.004PA	-	-	Sambaa K'e/ Redknife River	-	Surface/Subsurface

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Borrow Sites (cont'd)					
20.004PC	-	-	Sambaa K'e/ Redknife River, Special Infrastructure Corridor	-	Surface/Subsurface, Subsurface
20.008P	-	Cameron Hills/ Blackstone/ Arrowhead River	-	-	No withdrawal
20.057P	-	-	JMR Five Lakes	-	Surface/Subsurface
20.064P	-	-	Sambaa K'e/ Redknife River	-	No withdrawal
20.068P	-	Cameron Hills/ Blackstone/ Arrowhead River	-	-	No withdrawal
9.091P	-	-	Pehdzéh Ki Deh	-	Surface/Subsurface
10.001P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.003P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.004P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.013P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.014AP	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.022P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.033P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.037P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.038PA	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.044BP	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.055P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.071P	-	-	Pehdzéh Ki Deh	-	No withdrawal
10.120P	-	-	Pehdzéh Ki Deh	-	Subsurface
11.067P	-	-	Sibbeston Plains	-	Surface/Subsurface
20.002P	-	Trout River	-	-	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Borrow Sites (cont'd)					
20.006P	-	Cameron Hills/ Blackstone/ Arrowhead River	-	-	No withdrawal
20.018P	-	-	Sibbeston Plains	-	Subsurface
20.015P	-	-	Edézhzhíe	-	No withdrawal
Infrastructure and Facility Sites					
Blackwater River Facility	702.1	-	Pehdzéh Ki Deh	-	No withdrawal
Blackwater River Barge Landing Site	702.1	-	Pehdzéh Ki Deh	-	Surface/Subsurface, No withdrawal
Ochre River Existing Air Strip	-	-	Pehdzéh Ki Deh	-	No withdrawal
Ochre River Camp Site	757.2	-	Pehdzéh Ki Deh	-	No withdrawal
Ochre River Barge Landing Site	757.2	-	Pehdzéh Ki Deh	-	No withdrawal
River Between Two Mountains Storage Site	830.2	-	Pehdzéh Ki Deh	-	No withdrawal
River Between Two Mountains Barge Landing Site	830.2	-	Pehdzéh Ki Deh	-	No withdrawal
Camsell Bend Barge Landing Site	927.8	-	Sibbeston Plains	-	Surface/Subsurface
Camsell Bend Camp Site	927.8	-	Sibbeston Plains	-	Surface/Subsurface
Deep Lake Facility	1085.7	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
Hodgson Creek Facility	773.7	-	Pehdzéh Ki Deh	-	No withdrawal
Trail River Facility	928.3	Fort Simpson	-	General Use	No withdrawal
Trail River Airstrip	928.3	Fort Simpson	-	General Use	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Infrastructure and Facility Sites (cont'd)					
Liard Ferry Storage Site	1010.3	Jean Marie	-	-	Subsurface
Manners Creek Facility	1010.3	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
McGill Station Camp Site	1056.1	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
Trout River Facility	1123.9	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
Trout River Camp Site	1123.9	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
Trout Lake Camp Site	1167.0	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Surface/Subsurface, Subsurface
Blackwater River Proposed Airstrip	702.1	-	Pehdzéh Ki Deh	-	No withdrawal
Blackwater River Pipeline Storage Site	702.1	-	Pehdzéh Ki Deh	-	No withdrawal
Willowlake River Facility	859.9	-	Edézhzhíe	-	No withdrawal
Pipelines					
C1 Begin	687.9	-	Pehdzéh Ki Deh	-	No withdrawal
C1 End	688.2	-	Pehdzéh Ki Deh	-	No withdrawal
P1 Begin	688.2	-	Pehdzéh Ki Deh	-	No withdrawal
P1 End	698.6	-	Pehdzéh Ki Deh	-	No withdrawal
C2 Begin	698.6	Jean Marie, Special Infrastructure Corridor, Trout River, Cameron Hills/ Blackstone/ Arrowhead River	Pehdzéh Ki Deh, Sibbeston Plains, Edézhzhíe, JMR Five Lakes, Sambaa K'e/ Redknife River	-	Surface/Subsurface, Subsurface, No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Pipelines (cont'd)					
C2 End	1220.2	Jean Marie, Special Infrastructure Corridor, Trout River, Cameron Hills/ Blackstone/ Arrowhead River	Pehdzéh Ki Deh, Sibbeston Plains, Edézhzhíe, JMR Five Lakes, Samba K'e/ Redknife River	-	Surface/Subsurface, Subsurface, No withdrawal
Pipeline Appurtenances					
GBV Blackwater River - GAS BV-010	702.1	-	Pehdzéh Ki Deh	-	No withdrawal
CP-13	702.1	-	Pehdzéh Ki Deh	-	No withdrawal
GBV Hodgson Creek - GAS BV-011	773.8	-	Pehdzéh Ki Deh	-	No withdrawal
CP-14	773.8	-	Pehdzéh Ki Deh	-	No withdrawal
GBV Willowlake River - GAS BV-012	859.9	-	Edézhzhíe	-	No withdrawal
CP-15	859.9	-	Edézhzhíe	-	No withdrawal
GBV Trail River - GAS BV-013	927.8	Fort Simpson	-	General Use	No withdrawal
CP-16	927.8	Fort Simpson	-	General Use	No withdrawal
GBV Manners Creek - GAS BV-014	1010.3	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
CP-17	1010.3	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
GBV Deep Lake - GAS BV-015	1085.7	Special Infrastructure Corridor	Samba K'e/ Redknife River	-	Subsurface
CP-18	1085.7	Special Infrastructure Corridor	Samba K'e/ Redknife River	-	Subsurface

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Pipeline Appurtenances (cont'd)					
GBV Trout River - GAS BV-016	1123.9	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
CP-19	1167	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
Watercourse Crossings					
RPR-376	691.2	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-377	698.7	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-377.1	701.1	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-378	704.6	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-379	707.1	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-380	709.9	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-381	723.3	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-382	729.3	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-383	733.2	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-384	734.3	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-385	737.6	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-385.1	737.7	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-385.2	737.9	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-386	743.7	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-387	749.7	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-388	750.9	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-389	752.4	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-390	752.7	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-390.1	753.7	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-390.2	754.6	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-391A	758.7	-	Pehdzéh Ki Deh	-	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Watercourse Crossings (cont'd)					
RPR-392	761.9	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-393	764.9	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-394	771.1	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-395	771.2	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-396	771.5	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-397	772.1	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-398	773.4	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-399	777.5	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-400	781.7	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-401	782.1	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-401.1	783.0	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-401.2	783.3	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-402	784.3	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-403	785.4	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-404	790.9	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-405	791.5	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-406	792.6	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-407	794.1	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-408	794.7	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-409	796.4	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-410	796.7	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-412	802.1	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-413	803.8	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-414	807.1	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-415	809.9	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-416	815.2	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-417	824.8	-	Pehdzéh Ki Deh	-	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Watercourse Crossings (cont'd)					
RPR-418	825.6	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-419	827.4	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-420	831.0	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-421	832.3	-	Pehdzéh Ki Deh	-	No withdrawal
RPR-422	833.4	-	Sibbeston Plains	-	No withdrawal
RPR-423	836.3	-	Sibbeston Plains	-	No withdrawal
RPR-424	841.0	-	Sibbeston Plains	-	No withdrawal
RPR-425-A	844.7	-	Sibbeston Plains	-	No withdrawal
RPR-425.1	845.4	-	Sibbeston Plains	-	No withdrawal
RPR-427-A	851.3	-	Sibbeston Plains	-	No withdrawal
RPR-428-A	853.9	-	Edézhzhíe	-	No withdrawal
RPR-428.1	854.5	-	Edézhzhíe	-	No withdrawal
RPR-429	857.9	-	Edézhzhíe	-	No withdrawal
RPR-430	861.2	-	Edézhzhíe	-	No withdrawal
RPR-431	870.2	Fort Simpson	-	General Use	No withdrawal
RPR-432	873.8	Fort Simpson	-	General Use	No withdrawal
RPR-433	886.0	Fort Simpson	-	General Use	No withdrawal
RPR-434	886.8	Fort Simpson	-	General Use	No withdrawal
RPR-435	888.3	Fort Simpson	-	General Use	No withdrawal
RPR-436	890.2	Fort Simpson	-	General Use	No withdrawal
RPR-437	892.2	Fort Simpson	-	General Use	No withdrawal
RPR-438	893.7	Fort Simpson	-	General Use	No withdrawal
RPR-439	895.6	Fort Simpson	-	General Use	No withdrawal
RPR-440	898.6	Fort Simpson	-	General Use	No withdrawal
RPR-441	902.7	Fort Simpson	-	General Use	No withdrawal
RPR-442	903.8	Fort Simpson	-	General Use	No withdrawal
RPR-443	905.0	Fort Simpson	-	General Use	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Watercourse Crossings (cont'd)					
RPR-444	907.6	Fort Simpson	-	General Use	No withdrawal
RPR-445	908.6	Fort Simpson	-	General Use	No withdrawal
RPR-446	909.7	Fort Simpson	-	General Use	No withdrawal
RPR-447	911.2	Fort Simpson	-	General Use	No withdrawal
RPR-448	912.3	Fort Simpson	-	General Use	No withdrawal
RPR-449	913.2	Fort Simpson	-	General Use	No withdrawal
RPR-450	914.2	Fort Simpson	-	General Use	No withdrawal
RPR-451	916.3	Fort Simpson	-	General Use	No withdrawal
RPR-452	917.5	Fort Simpson	-	General Use	No withdrawal
RPR-453	923.3	Fort Simpson	-	General Use	No withdrawal
RPR-454	923.9	Fort Simpson	-	General Use	No withdrawal
RPR-455-A	927.0	Fort Simpson	-	General Use	No withdrawal
RPR-456-A	928.7	Fort Simpson	-	General Use	No withdrawal
RPR-457	935.4	Fort Simpson	-	General Use	No withdrawal
RPR-458	949.0	Fort Simpson	-	General Use	No withdrawal
RPR-459	951.8	Fort Simpson	-	General Use	No withdrawal
RPR-459.1	954.8	Fort Simpson	-	General Use	No withdrawal
RPR-460	957.7	Fort Simpson	-	General Use	No withdrawal
RPR-461	960.5	Fort Simpson	-	General Use	No withdrawal
RPR-462	962.7	Fort Simpson	-	General Use	No withdrawal
RPR-463	972.3	Fort Simpson	-	General Use	No withdrawal
RPR-464	984.6	Special Infrastructure Corridor	Sibbeston Plains	-	Subsurface
RPR-465	986.5	Special Infrastructure Corridor	Sibbeston Plains	-	Subsurface

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Watercourse Crossings (cont'd)					
RPR-466	989.4	Special Infrastructure Corridor	Sibbeston Plains	-	Subsurface
RPR-467	992.6	Special Infrastructure Corridor	Sibbeston Plains	-	Subsurface
RPR-468	995.5	Special Infrastructure Corridor	Sibbeston Plains	-	Subsurface
RPR-470	1001.4	Special Infrastructure Corridor	Sibbeston Plains	-	Subsurface
RPR-471	1014.4	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
RPR-472	1018.9	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
RPR-473	1028.7	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
RPR-474	1032.6	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
RPR-475	1047.6	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
RPR-475.1	1055.7	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface
RPR-475.2	1075.9	Special Infrastructure Corridor, Jean Marie	Sambaa K'e/ Redknife River	-	Subsurface
RPR-475.3	1080.4	Special Infrastructure Corridor, Jean Marie	-	-	Subsurface

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Watercourse Crossings (cont'd)					
RPR-476	1083.0	Special Infrastructure Corridor, Jean Marie	Sambaa K'e/ Redknife River	-	Subsurface
RPR-476.1	1088.0	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-477	1088.4	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-477.1	1090.0	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-478	1091.6	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-479	1104.1	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-480	1106.2	Special Infrastructure Corridor, Trout River	Sambaa K'e/ Redknife River	-	No withdrawal
RPR-481	1115.4	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-482	1116.7	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-483	1120.4	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-484	1122.4	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-485	1125.7	Special Infrastructure Corridor, Trout River	-	-	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Watercourse Crossings (cont'd)					
RPR-486	1126.8	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-487	1128.9	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-488	1130.1	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-489	1131.1	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-490	1132.6	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-491	1138.0	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-492	1139.7	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-493	1142.2	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-494-A	1148.4	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-494.1	1150.0	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-494.2	1151.5	Special Infrastructure Corridor, Trout River	-	-	No withdrawal
RPR-495-A	1158.0	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Watercourse Crossings (cont'd)					
RPR-496-A	1160.2	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-497-A	1161.9	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-498-A	1162.6	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-499-A	1164.7	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-500-A	1166.4	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-500.1	1167.2	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-501-A	1168.8	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-501.1	1169.0	Special Infrastructure Corridor	Sambaa K'e/ Redknife River	-	Subsurface
RPR-501.2	1173.3	Special Infrastructure Corridor, Cameron Hills/Blackstone/ Arrowhead River	-	-	No withdrawal
RPR-501.3	1173.5	Special Infrastructure Corridor, Cameron Hills/Blackstone/ Arrowhead River	-	-	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Watercourse Crossings (cont'd)					
RPR-502-A	1184.2	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-503	1187.2	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-504	1192.6	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-505	1193.6	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-506	1196.6	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-507	1203.3	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-508	1205.6	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-509	1207.3	Special Infrastructure Corridor, Cameron Hills, Blackstone/Arrowhead River	-	-	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Watercourse Crossings (cont'd)					
RPR-509.1	1208.0	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-510	1211.2	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-511	1212.6	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-511.1	1213.4	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-511.2	1215.9	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-512-A	1517.2	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
RPR-512.2	1218.2	Special Infrastructure Corridor, Cameron Hills/Blackstone/Arrowhead River	-	-	No withdrawal
Water Sources					
DCN2	750.2	-	Pehdzéh Ki Deh	-	No withdrawal

Table B-1: Land Use Designation of Proposed Development Activities (cont'd)

Type	KP	Working Draft Dehcho (June 2005) Land Use Plan			Status Under the Dehcho Withdrawal Orders
		Proposed Special Management Zone (Name)	Proposed Conservation Zone (Name)	Proposed General Use Zone	
Water Sources (cont'd)					
165	754.6	-	Pehdzéh Ki Deh	-	No withdrawal
I-12	766.4	-	Pehdzéh Ki Deh	-	No withdrawal
166	790.3	-	Pehdzéh Ki Deh	-	No withdrawal
DCN5	798.1	-	Pehdzéh Ki Deh	-	No withdrawal
DCN6	804.9	-	Pehdzéh Ki Deh	-	No withdrawal
DCN7	839.8	-	Sibbeston Plains	-	No withdrawal
167	885.9	Fort Simpson	-	General Use	No withdrawal
DCN7A	880.0	Fort Simpson	-	General Use	No withdrawal
168	901.4	Fort Simpson	-	General Use	No withdrawal
169	943.4	Fort Simpson	-	General Use	No withdrawal
170	947.9	-	Sibbeston Plains	-	Surface/Subsurface
171	1039.4	Jean Marie	-	-	Surface/Subsurface
171A	1056.1	Jean Marie	-	-	Subsurface
173	1168.2	-	Sambaa K'e/ Redknife River	-	Surface/Subsurface

TITLE **DCR Application for a Type A Water Licence**
SECTION Appendices
SUBJECT C: Foldout Maps

Map #	Title	Revision
107-0000-011-454-001	Mackenzie Gas Project Pipeline, Facilities, and Infrastructure Project Overview Map	2
107-0000-011-491-003	Mackenzie Gas Project Sahtu Settlement Area/Deh Cho Region Potential Water Source Overview Map	0
107-0000-011-491-004	Mackenzie Gas Project Deh Cho Region Potential Water Source Overview Map	0
107-0000-011-494-003	Mackenzie Gas Project Sahtu Settlement Area/Deh Cho Region Land Use Plan Overview Map	0
107-0000-011-494-004	Mackenzie Gas Project Deh Cho Region Land Use Plan Overview Map	0

