

Table 4: Changes in the Distribution of Riparian Communities in the Fort McKay FTSA (Landsat)

Regional Land Cover Class	Pre-Development Scenario		Base Case		% Net Change from Pre-Dev to Base Case	% Net Change due to Jackpine Mine Expansion		% Net Change due to Pierre River Mine		% Net Change at Application Case		% Net Change at Application Case - Closure		% Net Change at Planned Development Case	
	[ha]	[%]	[ha]	[%]	%	Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case
Terrestrial Vegetation															
coniferous white spruce	3658	1	2,839	1	-22	-23	0	-27	-5	-27	-6	-27	-5	-32	-13
deciduous aspen-balsam poplar	11,036	3	11,346	3	3	2	0	2	-1	1	-2	1	-2	-13	-15
mixedwood aspen-white spruce	7,588	2	6,742	2	-11	-13	-2	-13	-2	-15	-4	-15	-4	-25	-15
<i>terrestrial vegetation subtotal</i>	<i>22,282</i>	<i>6</i>	<i>20,927</i>	<i>6</i>	<i>-6</i>	<i>-7</i>	<i>-1</i>	<i>-8</i>	<i>-2</i>	<i>-9</i>	<i>-3</i>	<i>-9</i>	<i>-3</i>	<i>-20</i>	<i>-15</i>
Wetlands															
non-treed wetlands	9,928	3	7,974	2	-20	-24	-6	-24	-6	-29	-11	-1	23	-30	-13
treed fen	9,055	2	7,100	2	-22	-27	-6	-28	-8	-33	-14	-33	-14	-35	-17
<i>wetlands subtotal</i>	<i>18,983</i>	<i>5</i>	<i>15,075</i>	<i>4</i>	<i>-21</i>	<i>-25</i>	<i>-6</i>	<i>-26</i>	<i>-7</i>	<i>-31</i>	<i>-13</i>	<i>-16</i>	<i>6</i>	<i>-32</i>	<i>-15</i>
Non-Riparian															
non-riparian	338,308	89	343,639	91	2	2	0	2	0	2	1	2	0	3	2
<i>non-riparian subtotal</i>	<i>338,308</i>	<i>89</i>	<i>343,639</i>	<i>91</i>	<i>2</i>	<i>2</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>2</i>	<i>1</i>	<i>2</i>	<i>0</i>	<i>3</i>	<i>2</i>
Other															
cloud	67	<1	0	0	-100 (b)	-100 (b)	(a)	-100 (b)	(a)	-100 (b)	(a)	-100 (b)	(a)	-100 (b)	(a)
<i>other subtotal</i>	<i>67</i>	<i><1</i>	<i>0</i>	<i>0</i>	<i>-100 (b)</i>	<i>-100 (b)</i>	<i>(a)</i>	<i>-100 (b)</i>	<i>(a)</i>	<i>-100 (b)</i>	<i>(a)</i>	<i>-100 (b)</i>	<i>(a)</i>	<i>-100 (b)</i>	<i>(a)</i>
Total	379,641	100	379,641	100											

Note: Some numbers are rounded for presentation purposes. Therefore, it may appear that the totals do not equal the sum of the individual value.

a - undefinable in % as base case or pre-development scenario = 0 ha

b - net change is represented by a loss of -100 % because resulting area = 0 ha