

**Table 11: Changes in the Distribution of Peatlands in the Fort McKay 40 Township Block (Landsat)**

Land Cover Classes	Pre-Development Scenario		Base Case (Area)		Net Change from Pre-Dev to Base Case	Net Change (%) for Jackpine Mine Expansion		Net Change (%) for Pierre River Mine		Net Change (%) at Application Case		Net Change (%) at Application Case - Closure		Net Change (%) at Planned Development Case		Net Change (%) at Far Future (PDC Closure)	
	[ha]	[%]	[ha]	[%]	%	Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case
<b>Estimated Peatland Wetlands (67%)</b>																	
non-treed wetlands	25,720	7	17,119	5	-33	-39	-9	-37	-6	-43	-15	-43	-15	-45	-17	4	56
treed bog/poor fen	43,068	11	31,921	8	-26	-31	-6	-29	-4	-33	-10	-33	-10	-36	-14	-36	-14
treed fen	46,113	12	35,908	9	-22	-26	-5	-27	-7	-31	-11	-31	-11	-34	-15	-32	-13
<i>peatlands subtotal</i>	<i>114,901</i>	<i>30</i>	<i>84,948</i>	<i>22</i>	<i>-26</i>	<i>-31</i>	<i>-6</i>	<i>-30</i>	<i>-5</i>	<i>-35</i>	<i>-12</i>	<i>-35</i>	<i>-12</i>	<i>-37</i>	<i>-15</i>	<i>-26</i>	<i>1</i>
<b>Estimated Non-Peatland Wetlands (33%)</b>																	
non-treed wetlands	12,668	3	8,432	2	-33	-39	-9	-37	-6	-43	-15	-43	-15	-45	-17	4	56
treed bog/poor fen	21,213	6	15,723	4	-26	-31	-6	-29	-4	-33	-10	-33	-10	-36	-14	-36	-14
treed fen	22,712	6	17,686	5	-22	-26	-5	-27	-7	-31	-11	-31	-11	-34	-15	-32	-13
<i>non-peatlands subtotal</i>	<i>56,593</i>	<i>15</i>	<i>41,840</i>	<i>11</i>	<i>-26</i>	<i>-31</i>	<i>-6</i>	<i>-30</i>	<i>-5</i>	<i>-35</i>	<i>-12</i>	<i>-35</i>	<i>-12</i>	<i>-37</i>	<i>-15</i>	<i>-26</i>	<i>1</i>
<i>wetlands subtotal</i>	<i>171,493</i>	<i>45</i>	<i>126,789</i>	<i>33</i>	<i>-26</i>	<i>-31</i>	<i>-6</i>	<i>-30</i>	<i>-5</i>	<i>-35</i>	<i>-12</i>	<i>-35</i>	<i>-12</i>	<i>-37</i>	<i>-15</i>	<i>-26</i>	<i>1</i>
<b>Terrestrial Vegetation</b>																	
coniferous jack pine	39,918	11	34,276	9	-14	-15	-1	-15	-1	-16	-2	-16	-2	-16	-3	-8	7
coniferous jack pine-black spruce	2,556	1	2,440	1	-5	-5	-1	-5	0	-5	-1	-5	-1	-9	-4	773	815
coniferous white spruce	16,942	4	12,318	3	-27	-28	-1	-31	-5	-31	-6	-31	-6	-38	-15	75	141
deciduous aspen-balsam poplar	48,446	13	45,342	12	-6	-7	-1	-7	-1	-8	-2	-8	-2	-26	-21	26	34
mixedwood aspen-jack pine	6,583	2	5,804	2	-12	-12	<-1	-12	0	-12	<-1	-12	<-1	-13	-2	68	91
mixedwood aspen-white spruce	43,720	12	38,726	10	-11	-13	-2	-15	-4	-17	-6	-17	-6	-28	-19	24	40
<i>terrestrial vegetation subtotal</i>	<i>158,166</i>	<i>42</i>	<i>138,907</i>	<i>37</i>	<i>-12</i>	<i>-13</i>	<i>-1</i>	<i>-14</i>	<i>-2</i>	<i>-15</i>	<i>-3</i>	<i>-15</i>	<i>-3</i>	<i>-25</i>	<i>-14</i>	<i>36</i>	<i>55</i>
<b>Burn</b>																	
burn (unknown)	40,061	11	6,863	2	-83	-90	-43	-83	0	-90	-43	-90	-43	-90	-43	-90	-43
<i>burn subtotal</i>	<i>40,061</i>	<i>11</i>	<i>6,863</i>	<i>2</i>	<i>-83</i>	<i>-90</i>	<i>-43</i>	<i>-83</i>	<i>0</i>	<i>-90</i>	<i>-43</i>	<i>-90</i>	<i>-43</i>	<i>-90</i>	<i>-43</i>	<i>-90</i>	<i>-43</i>
<b>Disturbances</b>																	
cutblock	2	<1	4,716	1	235700	231950	-2	216050	-8	212350	-10	212350	-10	212350	-10	213200	-10
disturbance	0	0	93,217	25	(a)	(a)	14	(a)	11	(a)	24	(a)	24	(a)	45	(a)	-94
<i>disturbances subtotal</i>	<i>2</i>	<i>&lt;1</i>	<i>97,933</i>	<i>26</i>	<i>4896550</i>	<i>5524400</i>	<i>13</i>	<i>5383700</i>	<i>10</i>	<i>6011550</i>	<i>23</i>	<i>6011550</i>	<i>23</i>	<i>6982500</i>	<i>43</i>	<i>490200</i>	<i>-90</i>
<b>Other</b>																	
water	9,851	3	9,150	2	-7	-7	0	-8	-1	-8	-1	-8	-1	-8	-1	140	158
cloud	67	<1	0	0	-100 (b)	-100 (b)	(a)	-100 (b)	(a)	-100 (b)	(a)	-100 (b)	(a)	-100 (b)	(a)	-100 (b)	(a)
<i>other subtotal</i>	<i>9,918</i>	<i>3</i>	<i>9,150</i>	<i>2</i>	<i>-8</i>	<i>-8</i>	<i>0</i>	<i>-8</i>	<i>-1</i>	<i>-8</i>	<i>-1</i>	<i>-8</i>	<i>-1</i>	<i>-9</i>	<i>-1</i>	<i>138</i>	<i>158</i>
<b>Total</b>	<b>379,641</b>	<b>100</b>	<b>379,641</b>	<b>100</b>													

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

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