

**Table 12: Changes in Traditional Plant Potential in the Fort McKay FTSA (AVI)**

Map Code	Description	Traditional Plant Potential	Late-1990s Scenario		Base Case		Net Change from Late 1990s to Base Case	Net Change (%) for Jackpine Project		Base Case + Pierre River Mine		Net Change (%) for Pierre River Mine		Application Case		Net Change (%) at Application Case		Application Case - Closure		Net Change (%) at Closure	
			[ha]	[%]	[ha]	[%]	%	Late 1990s	Base	[ha]	[%]	Late 1990s	Base	[ha]	[%]	Late 1990s	Base	[ha]	[%]	Late 1990s	Base
<b>Athabasca Plain Natural Subregion Ecosite Phases</b>																					
a1	bearberry jack pine	Low	36,646	10	34,368	9	-6	-6	0	33647	9	-8	-2	33647	9	-8	-2	33914	9	-7	-1
b1	Canada buffalo-berry-green alder jack pine-aspen-white birch	High	9,561	3	9,087	2	-5	-5	0	8243	2	-14	-9	8243	2	-14	-9	8248	2	-14	-9
b2	Canada buffalo-berry-green alder aspen	High	3,800	1	3,532	1	-7	-7	0	2930	1	-23	-17	2930	1	-23	-17	3827	1	1	8
b3	Canada buffalo-berry-green alder aspen-white spruce-black spruce	High	3,531	1	3,483	1	-1	-1	0	2399	1	-32	-31	2399	1	-32	-31	2887	1	-18	-17
b4	Canada buffalo-berry-green alder white spruce-black spruce-jack pine	High	4,083	1	4,064	1	<-1	0	0	3489	1	-15	-14	3489	1	-15	-14	3492	1	-14	-14
c1	Labrador tea-mesic jack pine-black spruce	Moderate	479	<1	409	<1	-15	-15	0	391	<1	-18	-4	391	<1	-18	-4	2220	1	363	443
d1	Labrador tea-subhygric black spruce-jack pine	Low	512	<1	441	<1	-14	-14	0	351	<1	-31	-20	351	<1	-31	-20	3366	1	557	663
e1	willow/horsetail aspen-white birch-balsam poplar	High	668	<1	634	<1	-5	-5	0	607	<1	-9	-4	607	<1	-9	-4	607	<1	-9	-4
e2	willow/horsetail aspen-white spruce-black spruce	High	1,356	<1	1,271	<1	-6	-6	0	915	<1	-33	-28	915	<1	-33	-28	1073	<1	-21	-16
e3	willow/horsetail white spruce-black spruce	High	270	<1	270	<1	0	0	0	252	<1	-7	-7	252	<1	-7	-7	787	<1	191	191
PJ-Lt Comp	jack pine-tamarack complex	Low	45	<1	15	<1	-67	-67	0	12	<1	-73	-20	12	<1	-73	-20	12	<1	-73	-20
<i>Athabasca Plain ecosite phase High traditional plant potential subtotal</i>			23,269	6	22,341	5	-4	-4	0	18835	5	-19	-16	18835	5	-19	-16	20921	5	-10	-6
<i>Athabasca Plain ecosite phase Moderate traditional plant potential subtotal</i>			479	0	409	0	-15	-15	0	391	0	-18	-4	391	0	-18	-4	2220	1	363	443
<i>Athabasca Plain ecosite phase Low traditional plant potential subtotal</i>			557	0	456	0	-18	-18	0	363	0	-35	-20	363	0	-35	-20	3378	1	506	641
<i>Athabasca Plain ecosite phase subtotal</i>			60,951	16	57,576	15	-6	-6	0	53236	14	-13	-8	53236	14	-13	-8	60433	16	-1	5
<b>Boreal Highlands Natural Subregion Ecosite Phases</b>																					
<i>Boreal Highlands ecosite phase High traditional plant potential subtotal</i>			10,583	3	10,581	3	0	0	0	10581	3	0	0	10581	3	0	0	10581	3	0	0
<i>Boreal Highlands ecosite phase Moderate traditional plant potential subtotal</i>			1,568	0	1,568	0	0	0	0	1568	0	0	0	1568	0	0	0	1568	0	0	0
<i>Boreal Highlands ecosite phase Low traditional plant potential subtotal</i>			1,475	0	1,474	0	<-1	<-1	0	1474	0	0	0	1474	0	<-1	0	1474	0	<-1	0
<i>Boreal Highlandecosite phase subtotal</i>			14,891	4	14,887	4	0	0	0	14887	4	0	0	14887	4	0	0	14887	4	0	0
<b>Central Mixedwood Natural Subregion Ecosite Phases</b>																					
a1	lichen jack pine	Moderate	5999	2	4,508	1	-25	-26	-1	4496	1	-25	<-1	4429	1	-26	-2	5482	1	-9	21.6
b1	blueberry jack pine-aspen	High	9,132	2	6,509	2	-29	-33	-6	6410	2	-30	-2	5998	2	-34	-8	6273	2	-31	-3.6
b2	blueberry aspen (white birch)	High	4,756	1	4,450	1	-6	-8	-2	4412	1	-7	-1	4327	1	-9	-3	4327	1	-9	-2.8
b3	blueberry aspen-white spruce	High	6,466	2	5,367	1	-17	-18	-1	5261	1	-19	-2	5227	1	-19	-3	5227	1	-19	-2.6
b4	blueberry white spruce-jack pine	High	1,399	<1	1,065	<1	-24	-28	-5	925	<1	-34	-13	873	<1	-38	-18	1203	<1	-14	13.0
c1	Labrador tea-mesic jack pine-black spruce	Moderate	2,404	1	1,721	<1	-28	-30	-2	1715	<1	-29	0	1678	<1	-30	-2	4314	1	79	150.7
d1	low-bush cranberry aspen	High	44,514	12	33,026	9	-26	-27	-1	32628	9	-27	-1	32309	9	-27	-2	33961	9	-24	2.8
d2	low-bush cranberry aspen-white spruce	High	23,841	6	19,943	5	-16	-17	-1	19551	5	-18	-2	19285	5	-19	-3	20708	5	-13	3.8
d3	low-bush cranberry white spruce	High	8,940	2	7,426	2	-17	-18	-1	7317	2	-18	-1	7232	2	-19	-3	7232	2	-19	-2.6
e1	dogwood balsam poplar-aspen	High	4,297	1	3,563	1	-17	-17	0	3562	1	-17	0	3561	1	-17	<-1	3561	1	-17	<-1
e2	dogwood balsam poplar-white spruce	High	2,347	1	1,744	<1	-26	-26	-1	1707	<1	-27	-2	1693	<1	-28	-3	1693	<1	-28	-2.9
e3	dogwood white spruce	High	781	<1	357	<1	-54	-54	0	314	<1	-60	-12	314	<1	-60	-12	314	<1	-60	-12.0
f1	horsetail balsam poplar-aspen	Moderate	0	0	0	0	(a)	(a)	(a)	0	0	(a)	(a)	0	0	(a)	(a)	0	0	(a)	(a)
f2	horsetail balsam poplar-white spruce	High	0	0	0	0	(a)	(a)	(a)	0	0	(a)	(a)	0	0	(a)	(a)	503	<1	(a)	(a)
f3	horsetail white spruce	Moderate	0	0	0	0	(a)	(a)	(a)	0	0	(a)	(a)	0	0	(a)	(a)	550	<1	(a)	(a)

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			[ha]	[%]	[ha]	[%]	%	Late 1990s	Base	[ha]	[%]	Late 1990s	Base	[ha]	[%]	Late 1990s	Base	[ha]	[%]	Late 1990s	Base
<b>Athabasca Plain Natural Subregion Ecosite Phases</b>																					
g1	Labrador tea-subhygric black spruce-jack pine	Low	2,923	1	1,631	<1	-44	-46	-3	1620	<1	-45	-1	1569	<1	-46	-4	7122	2	144	336.7
h1	Labrador tea/horsetail white spruce-black spruce	Moderate	6,451	2	4,609	1	-29	-30	-2	4552	1	-29	-1	4440	1	-31	-4	4514	1	-30	-2.1
PJ-Lt Comp	jack pine-tamarack complex	Low	177	<1	94	<1	-47	-55	-15	94	<1	-47	0	80	<1	-55	-15	80	<1	-55	-14.9
<i>Central Mixedwood ecosite phase High traditional plant potential subtotal</i>			106,473	6	21,162	6	-80	-80	0	21162	6	-80	0	21162	6	-80	0	21162	6	-80	0.0
<i>Central Mixedwood ecosite phase Moderate traditional plant potential subtotal</i>			8,855	3	6,330	1	-29	-30	-2	6267	1	-29	-1	6118	1	-31	-3	9378	2	6	48.2
<i>Central Mixedwood ecosite phase Low traditional plant potential subtotal</i>			3,100	1	1,725	0	-44	-46	-4	1714	0	-45	-1	1649	0	-47	-4	7202	2	132	317.5
<i>Central Mixedwood ecosite phase subtotal</i>			124,428	33	96,014	25	-22.8	-24.1	-1.6	94,564	25	-24.0	-1.5	93,017	25	-25.2	-3.1	107,067	28	-14.0	11.5
<b>Wetlands</b>																					
BFNN	forested bog	Low	600	<1	341	<1	-43.2	-43.2	0.0	297	<1	-50.5	-12.9	297	<1	-50.5	-12.9	297	<1	-50.5	-12.9
BTNN	wooded bog	Moderate	37,683	10	28,508	8	-24.3	-27.1	-3.6	27,597	7	-26.8	-3.2	26,577	7	-29.5	-6.8	26,588	7	-29.4	-6.7
FFNN	forested fen	Moderate	111	<1	57	<1	-48.6	-50.5	-3.5	57	<1	-48.6	0.0	55	<1	-50.5	-3.5	55	<1	-50.5	-3.5
FONG	graminoid fen	Low	8,077	2	6416	2	-20.6	-29.3	-11.0	6,306	2	-21.9	-1.7	5,598	1	-30.7	-12.7	5,598	1	-30.7	-12.7
FONS	shrubby fen	Moderate	30,313	8	22,057	6	-27.2	-34.3	-9.7	20,668	5	-31.8	-6.3	18,520	5	-38.9	-16.0	18,520	5	-38.9	-16.0
FTNN	wooded fen	Moderate	43,921	12	31,287	8	-28.8	-37.3	-12.0	30,236	8	-31.2	-3.4	26,481	7	-39.7	-15.4	26,481	7	-39.7	-15.4
MONG	marsh	Low	201	<1	144	<1	-28.4	-28.4	0.0	144	<1	-28.4	0.0	144	<1	-28.4	0.0	144	<1	-28.4	0.0
SONS	shrubby swamp	Low	8,859	2	7,080	2	-20.1	-25.3	-6.5	6,933	2	-21.7	-2.1	6,471	2	-27.0	-8.6	6,471	2	-27.0	-8.6
STNN	wooded swamp	Moderate	5,556	1	4,291	1	-22.8	-23.5	-0.9	4,167	1	-25.0	-2.9	4,128	1	-25.7	-3.8	4,128	1	-25.7	-3.8
WONN	shallow open water	Low	1,098	<1	845	<1	-23.0	-23.1	<-1	815	<1	-25.8	-3.6	814	<1	-25.9	-3.7	814	<1	-25.9	-3.7
<i>Wetlands ecosite phase Moderate traditional plant potential subtotal</i>			117,584	31	86,200	23	-26.7	-32.6	-8.1	82,725	21	-29.6	-4.0	75,761	20	-35.6	-12.1	75,772	20	-35.6	-12.1
<i>Wetlands ecosite phase Low traditional plant potential subtotal</i>			18,235	4	14,485	4	-20.6	-27.0	-8.1	14,198	4	-22.1	-2.0	13,027	3	-28.6	-10.1	13,027	3	-28.6	-10.1
<i>wetlands subtotal</i>			136,419	36	101,027	27	-25.9	-31.9	-8.1	97,219	26	-28.7	-3.8	89,085	23	-34.7	-11.8	89,096	23	-34.7	-11.8
<b>Miscellaneous Vegetation Types</b>																					
BUu	burned upland	Moderate	810	<1	2,223	1	174	54	-44	2223	1	174	0	1251	<1	54	-44	1251	<1	54	-44
BUw	burned wetlands <sup>(a)</sup>	Moderate	319	<1	2,589	1	712	116	-73	2589	1	712	0	688	<1	116	-73	688	<1	116	-73
Cb	cutbank	Low	93	<1	92	<1	-1	-1	0	92	<1	-1	0	92	<1	-1	0	92	<1	-1	0
Me	meadow	Low	574	<1	525	<1	-9	-9	0	521	<1	-9	-1	521	<1	-9	-1	521	<1	-9	-1
Sh	shrubland	Moderate	1,700	<1	1,510	<1	-11	-11	<-1	1510	<1	-11	0	1505	<1	-11	<-1	4263	1	151	182
<i>Miscellaneous Moderate traditional plant potential subtotal</i>			2,019	0	4,099	1	103	9	-46	4099	1	103	0	2193	0	9	-46	4951	1	145	21
<i>Miscellaneous Low traditional plant potential subtotal</i>			667	0	617	0	-7	-7	0	613	0	-8	-1	613	0	-8	-1	613	0	-8	-1
<i>miscellaneous vegetation types subtotal</i>			3,496	1	6,940	2	99	16	-41	6935	2	98	<-1	4057	1	16	-42	6815	2	95	-2
<b>Non-Vegetation Types</b>																					
Lake	lake	Low	4,771	1	4,363	1	-9	-10	-1	4313	1	-10	-1	4258	1	-11	-2	9968	3	109	128
Littoral	littoral zone		0	0	0	0	(a)	(a)	(a)	0	0	(a)	(a)	0	0	(a)	(a)	1232	<1	(a)	(a)
River	river	Low	5,254	1	5,253	1	0	0	0	5240	1	<-1	<-1	5240	1	<-1	<-1	5240	1	<-1	<-1
Sand	sand	Low	129	<1	129	<1	0	0	0	124	<1	-4	-4	124	<1	-4	-4	124	<1	-4	-4
<i>non-vegetation types subtotal</i>			10,153	3	9,745	3	-4	-5	-1	9677	3	-5	-1	9622	3	-5	-1	16563	4	63	70
<b>Disturbances</b>																					
CC	cutblock	Moderate	3,995	1	3,442	1	-14	-15	-1	2978	1	-25	-13	2941	1	-26	-15	2941	1	-26	-15
DIS	disturbance	Low	25,303	7	90,004	24	256	306	14	100140	26	296	11	112790	30	346	25	81832	22	223	-9
<i>disturbances subtotal</i>			29,298	8	93,446	25	219	262	13	103117	27	252	10	115730	30	295	24	84773	22	189	-9

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			[ha]	[%]	[ha]	[%]	%	Late 1990s	Base	[ha]	[%]	Late 1990s	Base	[ha]	[%]	Late 1990s	Base	[ha]	[%]	Late 1990s	Base
<b>Athabasca Plain Natural Subregion Ecosite Phases</b>																					
<b>Total Upland Phases with High Traditional Plant Potential</b>			140,325	36	116,372	29	-17	-18	-1	111503	29	-21	-4	110235	29	-21	-5	116504	29	-17	<1
<b>Total Upland Phases with Moderate Traditional Plant Potential</b>			24,671	6	21,255	4	-14	-19	-6	20698	4	-16	-3	19468	3	-21	-8	28368	6	15	33
<b>Total Upland Phases with Low Traditional Plant Potential</b>			31,231	8	94,405	24	202	243	13	104428	26	234	11	117013	30	275	24	94623	25	203	<1
<b>Total Wetland Types with Moderate Traditional Plant Potential</b>			117,903	31	88,789	24	-25	-32	-10	85314	22	-28	-4	76449	20	-35	-14	76460	20	-35	-14
<b>Total Wetland Types with Low Traditional Plant Potential</b>			28,260	6	24,101	6	-15	-19	-5	23751	6	-16	-1	22525	5	-20	-7	28235	7	<-1	17
<b>Total</b>			<b>379,635</b>	<b>100</b>	<b>379,635</b>	<b>100</b>				<b>379635</b>	<b>100</b>			<b>379635</b>	<b>100</b>			<b>379635</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