

APPENDIX 12-VI

Overall Vegetation and Wetland Local Study Area and Regional Study Area Land Cover Area Summaries

**APPENDIX 12-VI
OVERALL VEGETATION AND WETLAND LOCAL STUDY AREA AND REGIONAL
STUDY LAND COVER AREA SUMMARIES**

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Table 12-VI-1: Upland and Wetland Land Cover Area in the Vegetation and Wetlands Local Study Area and Regional Study Areas

Code	Title	Local Study Area							Regional Study Area						
		Baseline Characterization (ha)	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)	Baseline Characterization	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)
Upland Ecosystems															
BSH	Brush and Alder	1,109	1,094	-15	-1.3	1,087	-22	-2.0	4,779	4,764	-15	-0.3	4,696	-83	-1.7
C11	White Pine-Red Pine	0	0	0	0.0	0	0	0.0	18	18	0	0.0	18	0	0.0
C12	Red Pine	0	0	0	0.0	0	0	0.0	3	3	0	0.0	3	0	0.0
C13	Jack Pine-White Pine-Red Pine	0	0	0	0.0	0	0	0.0	54	54	0	0.0	54	0	0.0
C15	Jack Pine	1,532	1,532	-0.3	<-0.1	1,521	-12	-0.8	5,347	5,347	<-1	<-0.1	5,332	-15	-0.3
C16	Black Spruce-Pine	3,594	3,538	-56	-1.6	3,461	-133	-3.7	17,921	17,865	-56	-0.3	17,517	-405	-2.3
C17	Poplar-White Birch	351	350	-1	-0.3	344	-7	-1.9	4,117	4,116	-1	<-0.1	4,107	-10	-0.2
C18	Poplar-White Birch-White Spruce-Balsam Fir	1,819	1,780	-38	-2.1	1,727	-92	-5.1	7,819	7,780	-38	-0.5	7,599	-219	-2.8
C19	Poplar-Jack Pine-White Spruce-Black Spruce	460	457	-3	-0.7	451	-9	-2.0	2,503	2,500	-3	-0.1	2,478	-24	-1.0
C20	White Pine-Red Pine-White Spruce-White Birch-Trembling Aspen	30	30	0	0.0	30	0	0.0	69	69	0	0.0	69	0	0.0
C21	White Cedar-White Pine-White Birch-White Spruce	7,876	7,647	-229	-2.9	7,363	-513	-6.5	41,440	41,211	-229	-0.6	38,037	-3,402	-8.2
C22	White Cedar-Other Conifer	2,079	2,012	-67	-3.2	1,967	-112	-5.4	13,764	13,698	-67	-0.5	13,052	-713	-5.2
C27	Sugar Maple-White Birch-Poplar-White Pine	99	99	0	0.0	99	0	0.0	916	916	0	0.0	881	-35	-3.8
C29	Sugar Maple-Yellow Birch	325	318	-7	-2.0	318	-7	-2.0	3,657	3,651	-7	-0.2	3,625	-33	-0.9
GRS	Grass and Meadow	102	102	0	0.0	102	0	0.0	151	151	0	0.0	151	0	0.0
NE01	Black Spruce - Jack Pine/White Spruce - White Birch	1,813	1,770	-43	-2.4	1,664	-149	-8.2	11,510	11,468	-43	-0.4	11,325	-185	-1.6
NE02	Jack Pine - Coarse Soil	2,209	2,153	-56	-2.5	2,153	-56	-2.5	7,236	7,180	-56	-0.8	7,180	-56	-0.8
NE03	White Birch - Trembling Aspen - Black Spruce - Coarse Soil	2,205	2,114	-91	-4.1	2,114	-91	-4.1	11,472	11,381	-91	-0.8	11,380	-92	-0.8
NE04	Black Spruce - Jack Pine - Coarse Soil	1,593	1,557	-37	-2.3	1,557	-37	-2.3	7,672	7,635	-37	-0.5	7,634	-38	-0.5
NE05	Black Spruce - Fine/Medium Soil	1,201	1,166	-35	-2.9	1,132	-69	-5.7	5,592	5,557	-35	-0.6	5,264	-329	-5.9
NE06	Black Spruce-Trembling Aspen/Trembling Aspen - Black Spruce - Jack Pine/Trembling Aspen - Black Spruce - Balsam Fir	18,462	18,041	-421	-2.3	17,054	-1,408	-7.6	84,929	84,508	-421	-0.5	79,939	-4,990	-5.9
NE07	Trembling Aspen - White Birch/Trembling Aspen - White Spruce - White Birch	81	79	-2	-2.4	79	-2	-2.4	296	294	-2	-0.7	294	-2	-0.7
NE08	Black Spruce - Feathermoss - Sphagnum - Moist Soil	1,034	10,06	-28	-2.7	1,005	-28	-2.7	6,269	6,241	-28	-0.4	6,158	-111	-1.8
NE09	Black Spruce - Larch/White Spruce - Balsam Fir - White Cedar	4,284	4,165	-119	-2.8	3,735	-549	-12.8	18,196	18,077	-119	-0.7	16,674	-1,522	-8.4
NE10	Trembling Aspen - Black Spruce - Balsam Poplar - Moist Soil	5,711	5,544	-167	-2.9	5,544	-167	-2.9	30,586	30,419	-167	-0.5	30,405	-181	-0.6
NE15	Red Maple	0	0	0	0.0	0	0	0.0	588	588	0	0.0	588	-1	-0.1

**APPENDIX 12-VI
OVERALL VEGETATION AND WETLAND LOCAL STUDY AREA AND REGIONAL STUDY LAND COVER AREA
SUMMARIES**

Table 12-VI-1: Upland and Wetland Land Cover Area in the Vegetation and Wetlands Local Study Area and Regional Study Areas

Code	Title	Local Study Area							Regional Study Area						
		Baseline Characterization (ha)	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)	Baseline Characterization	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)
NW04	Cliff	121	121	<-1	-0.2	121	<-1	-0.2	355	355	<-1	-0.1	355	<-1	-0.1
NW05	Talus or Steep Slope	0	0	0	0.0	0	0	0.0	3	3	0	0.0	3	0	0.0
NW07	Rock Barren	490	489	<-1	-0.1	489	<-1	-0.1	695	695	<-1	-0.1	695	<-1	-0.1
NW10	Prairie / Savannah	4	4	0	0.0	4	0	0.0	4	4	0	0.0	4	0	0.0
NW11	Red Pine -White Pine-Jack Pine: Very Shallow Soil	43	43	0	0.0	43	0	0.0	43	43	0	0.0	43	0	0.0
NW12	Black Spruce - Jack Pine: Very Shallow Soil	4,564	4,531	-33	-0.7	4,531	-33	-0.7	10,373	10,340	-33	-0.3	10,339	-34	-0.3
NW13	Jack Pine - Conifer: Dry - Moderately Fresh Sandy Soil	918	880	-39	-4.2	880	-39	-4.2	1,180	1,141	-39	-3.3	1,141	-39	-3.3
NW14	Pine-Spruce Mixedwood: Sandy Soil	2,822	2,782	-40	-1.4	2,782	-40	-1.4	4,714	4,675	-40	-0.8	4,675	-40	-0.8
NW15	Red Pine- White Pine: Sandy Soil	30	30	0	0.0	30	0	0.0	57	57	0	0.0	57	0	0.0
NW16	Hardwood - Fir - Spruce Mixedwood: Sandy Soil	8,270	8,211	-59	-0.7	8,211	-59	-0.7	12,430	12,371	-59	-0.5	12,371	-59	-0.5
NW17	White Cedar: Fresh - Moist, Coarse - Fine Loamy Soil	303	301	-3	-0.8	301	-3	-0.8	1,320	1,317	-3	-0.2	1,317	-3	-0.2
NW18	Red Pine - White Pine: Fresh, Coarse Loamy Soil	29	29	0	0.0	29	0	0.0	230	230	0	0.0	230	0	0.0
NW19	Hardwood - Fir - Spruce Mixedwood: Fresh, Sandy - Coarse Loamy Soil	33,990	33,510	-480	-1.4	33,490	-501	-1.5	83,161	82,681	-480	-0.6	82,639	-522	-0.6
NW20	Spruce - Pine / Feathermoss: Fresh, Sandy - Coarse Loamy Soil	3,573	3,486	-87	-2.4	3,486	-87	-2.4	11,178	11,091	-87	-0.8	11,091	-87	-0.8
NW21	Fir - Spruce Mixedwood: Fresh, Coarse Loamy Soil	8,436	8,322	-114	-1.3	8,322	-114	-1.4	22,963	22,849	-114	-0.5	22,841	-122	-0.5
NW22	Spruce - Pine / Ledum / Feathermoss: Moist, Sandy - Coarse Loamy Soil	3,225	3,168	-57	-1.8	3,164	-61	-1.9	6,788	6,731	-57	-0.8	6,726	-62	-0.9
NW23	Hardwood - Fir - Spruce - Mixedwood: Moist, Sandy - Coarse Loamy Soil	4,189	4,141	-48	-1.2	4,138	-51	-1.2	9,326	9,278	-48	-0.5	9,273	-53	-0.6
NW24	Red Pine - White Pine: Fresh, Fine Loamy Soil	4	4	0	0.0	4	0	0.0	27	27	0	0.0	27	0	0.0
NW25	Pine - Spruce / Feathermoss: Fresh, Silty Soil	45	45	0	0.0	45	0	0.0	301	301	0	0.0	301	0	0.0
NW26	Spruce - Pine / Feathermoss: Fresh, Fine Loamy - Clayey Soil	654	650	-4	-0.6	650	-4	-0.6	2,250	2,246	-4	-0.2	2,246	-4	-0.2
NW27	Spruce - Pine / Feathermoss: Fresh, Fine Loamy - Clayey Soil	103	103	0	0.0	103	0	0.0	395	395	0	0.0	395	0	0.0
NW28	Hardwood - Fir - Spruce Mixedwood: Fresh, Silty Soil	521	517	-4	-0.7	516	-4	-0.9	875	871	-4	-0.4	870	-5	-0.6

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Table 12-VI-1: Upland and Wetland Land Cover Area in the Vegetation and Wetlands Local Study Area and Regional Study Areas

Code	Title	Local Study Area							Regional Study Area							
		Baseline Characterization (ha)	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)	Baseline Characterization	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)	
NW29	Hardwood - Fir - Spruce Mixedwood: Fresh, Fine Loamy - Clayey Soil	1,923	1,898	-25	-1.3	1,898	-25	-1.3	4,227	4,202	-25	-0.6	4,202	-25	-0.6	
NW30	Black Ash Hardwood: Fresh, Silty - Clayey Soil	9	9	0	0.0	9	0	0.0	88	88	0	0.0	88	0	0.0	
NW31	Spruce - Pine / Feathermoss: Moist, Silty - Clayey Soil	679	653	-26	-3.8	653	-26	-3.8	1,659	1,633	-26	-1.6	1,632	-27	-1.6	
NW32	Fir - Spruce Mixedwood: Moist, Silty - Clayey Soil	676	666	-10	-1.5	666	-10	-1.5	1,940	1,929	-10	-0.5	1,928	-11	-0.6	
NW33	Hardwood - Fir - Spruce Mixedwood: Moist, Silty - Clayey Soil	1,602	1,580	-22	-1.4	1,580	-22	-1.4	4,176	4,154	-22	-0.5	4,154	-22	-0.5	
RCK	Rock	781	758	-23	-2.9	749	-32	-4.1	4,680	4,657	-23	-0.5	4,599	-80	-1.7	
<i>Upland subtotal</i>		135,971	133,485	-2,486	-1.8	131,399	-4,572	-3.4	472,340	469,854	-2,486	-0.5	458,701	-13,639	-2.9	
Wetland Ecosystems																
C31	Black Spruce-Tamarack: very moist mineral and wet organic soils	408	405	-2	-0.6	352	-55	-13.5	2,082	2,080	-2	-0.1	1,902	-180	-8.7	
C32	White Cedar-Black Spruce-Tamarack: very moist mineral and wet organic soils	233	224	-9	-4.1	191	-42	-17.9	780	771	-9	-1.2	734	-46	-5.9	
C33	White Cedar-Other Conifer: very moist to wet soils	235	235	0	0.0	235	0	0.0	1,431	1,431	0	<-0.1	1,431	-1	<-0.1	
C35	Lowland Hardwoods: fresh to very moist soils	0	0	0	0.0	0	0	0.0	32	32	0	<-0.1	32	0	0.0	
NE11	Black Spruce - Labrador Tea - Organic Soil	2,781	2,691	-91	-3.3	2,689	-93	-3.3	10,629	10,538	-91	-0.9	10,534	-95	-0.9	
NE12	Black Spruce - Larch - Labrador Tea - Organic Soil	580	569	-11	-1.8	569	-11	-1.8	2,060	2,050	-11	-0.5	2,048	-12	-0.6	
NE13	Black Spruce - Larch - Speckled Alder/White Cedar - Black Spruce	553	541	-12	-2.2	541	-12	-2.2	2,895	2,883	-12	-0.4	2,883	-12	-0.4	
NE14	Black Spruce - Leatherleaf - Organic Soil	60	58	-2	-3.6	58	-2	-3.6	266	264	-2	-0.8	264	-2	-0.8	
NW34	Treed Bog: Black Spruce / Sphagnum: Organic Soil	163	161	-2	-1.3	161	-2	-1.3	436	434	-2	-0.5	434	-2	-0.5	
NW35	Poor Swamp: Black Spruce: Organic Soil	1,089	1,057	-32	-2.9	1,057	-32	-2.9	4,135	4,104	-32	-0.8	4,103	-32	-0.8	
NW36	Intermediate Swamp: Black Spruce (Tamarack): Organic Soil	1,712	1,684	-28	-1.6	1,683	-29	-1.7	7,978	7,950	-28	-0.3	7,948	-30	-0.4	
NW37	Rich Swamp: Cedar (Other Conifer): Organic Soil	1,151	1,140	-12	-1.0	1,140	-12	-1.0	3,596	3,584	-12	-0.3	3,584	-12	-0.3	
NW38	Rich Swamp: Black Ash (Other Hardwood): Organic - Mineral Soil	70	70	0	0.0	70	0	0.0	121	121	0	<-0.1	121	0	0.0	

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NW39	Open Bog: Ericaceous Shrub / Sedge / Sphagnum: Organic Soil	301	297	-3	-1.1	297	-4	-1.3	854	850	-3	-0.4	849	-4	-0.5	
NW40	Treed Fen: Tamarack - Black Spruce / Sphagnum: Organic Soil	357	353	-4	-1.2	352	-4	-1.3	1,236	1,231	-4	-0.3	1,231	-4	-0.4	
NW41	Open Poor Fen: Ericaceous Shrub - Sedge / Sphagnum: Organic Soil	40	39	-1	-3.2	39	-1	-3.2	121	120	-1	-1.1	120	-1	-1.1	
NW42	Open Moderately Rich Fen: Ericaceous Shrub / Sedge: Organic Soil	36	36	0	0.0	36	0	0.0	129	129	0	0.0	129	0	0.0	
NW43	Open Extremely Rich Fen: Ericaceous Shrub / Sedge / Brown Moss: Organic Soil	0	0	0	0.0	0	0	0.0	2	2	0	0.0	2	<-0.1	-0.7	
NW44	Thicket Swamp: Organic - Mineral Soil	1,141	1,129	-12	-1.0	1,129	-12	-1.0	2,797	2,786	-12	-0.4	2,785	-12	-0.4	
NW45	Shore Fen: Organic Soil	184	176	-7	-4.0	176	-7	-4.0	451	443	-7	-1.6	443	-7	-1.6	
NW46	Meadow Marsh: Organic - Mineral Soil	818	811	-7	-0.9	811	-7	-0.9	1,869	1,862	-7	-0.4	1,862	-7	-0.4	
NW47	Sheltered Marsh: Emergent: Sedimentary Peat Substrate	24	24	<-1	<-0.1	24	0	<-0.1	90	90	<-1	<-0.1	90	<-0.1	<-0.1	
NW48	Exposed Marsh: Emergent: Mineral Substrate	37	37	0	0.0	37	0	0.0	43	43	0	0.0	43	0	0.0	
NW50	Open Water Marsh: Submergent: Mineral Substrate	0	0	0	0.0	0	0	0.0	5	5	0	0.0	5	0	0.0	
OMS	Open Wetland	2,098	2,061	-37	-1.7	2,039	-59	-2.8	10,690	10,653	-37	-0.3	10,345	-345	-3.2	
TMS	Treed Wetland	311	304	-7	-2.2	296	-15	-4.7	2,102	2,096	-7	-0.3	2,073	-29	-1.4	
<i>Wetland subtotal</i>		<i>14,379</i>	<i>14,101</i>	<i>-279</i>	<i>-1.9</i>	<i>13,981</i>	<i>-398</i>	<i>-2.8</i>	<i>56,831</i>	<i>56,552</i>	<i>-279</i>	<i>-0.5</i>	<i>55,996</i>	<i>-835</i>	<i>-1.5</i>	
Water Ecosystems																
BFW	Buffered Watercourse	25	25	0	-1.3	25	0	-1.3	60	60	-0.3	-0.6	60	0	-0.6	
ISL	Small Island	44	43	-1	-1.3	43	-1	-2.2	1,984	1,983	-0.6	>-0.1	1,982	-2	-0.1	
WAT	Water	11,002	10,912	-90	-0.8	10,861	-141	-1.3	116,132	116,042	-90.4	-0.1	115,436	-696	-0.6	
<i>Water subtotal</i>		<i>11,071</i>	<i>10,980</i>	<i>-91</i>	<i>-0.8</i>	<i>10,929</i>	<i>-142</i>	<i>-1.3</i>	<i>118,176</i>	<i>118,085</i>	<i>-91.3</i>	<i>-0.1</i>	<i>117,478</i>	<i>-698</i>	<i>-0.6</i>	
Other Land Cover Classes																
N/A	Not Applicable	13	13	0	0.0	13	0	0.0	916	916	0.0	<-0.1	916	0	<-0.1	
OTH	Other	2	2	0	0.0	2	0	0.0	7	7	0.0	0.0	7	0	0.0	
UCL	Unclassified	<1	<1	0	0.0	<1	0	0.0	0	0	0.0	0.0	0	0	0.0	
BFL	Buffered Line	<1	<1	0	0.0	<1	0	0.0	0	0	0.0	0.0	0	0	0.0	
<i>Other subtotal</i>		<i>15</i>	<i>15</i>	<i>0</i>	<i>0.0</i>	<i>15</i>	<i>0</i>	<i>0.0</i>	<i>923</i>	<i>923</i>	<i>0.0</i>	<i><0.1</i>	<i>923</i>	<i>0</i>	<i><-0.1</i>	
Disturbances																
BASE CASE DISTURBANCE	Anthropogenic Disturbance	24,240	23605	-634	-2.6	23,381	-859	-3.5	45,895	45,261	-634	-1.4	44,699	-1,196	-2.6	
PROJECT CASE DISTURBANCE	Project Footprint	-	3,490	3,490	-	3,408	3,408	-	-	3,490	3,490	-	3,408	3,408	-	
RFD CASE DISTURBANCE	Reasonably Foreseeable Developments	-	-	-	-	2,563	2,563	-	-	-	-	-	12,961	12,961	-	

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Code	Title	Local Study Area							Regional Study Area						
		Baseline Characterization (ha)	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)	Baseline Characterization	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)
Total		185,676	185,676	-	-	185,676	-	-	694,166	694,166	-	-	694,166	-	-

ha = hectare; % = percent; < = less than; > = greater than.

Table 12-VI-2: Riparian Land Cover Areas in the Vegetation and Wetlands Local Study Area and Regional Study Areas

Code	Title	Baseline Characterization (ha)	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)	Baseline Characterization (ha)	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)
Riparian Ecosystems															
BSH	Brush and Alder	535	529	-6	-1.2	525	-10	-1.8	2,320	2,314	-6	-0.3	2,271	-49	-2.1
C11	White Pine-Red Pine	0	0	0	0.0	0	0	0.0	1	1	0	0.0	1	0	0.0
C12	Red Pine	0	0	0	0.0	0	0	0.0	0	0	0	0.0	0	0	0.0
C13	Jack Pine-White Pine-Red Pine	0	0	0	0.0	0	0	0.0	7	7	0	0.0	7	0	0.0
C15	Jack Pine	159	159	0	0.0	159	0	0.0	484	484	0	0.0	484	0	0.0
C16	Black Spruce-Pine	478	469	-9	-2.0	461	-17	-3.6	2,440	2,431	-9	-0.4	2,374	-66	-2.7
C17	Poplar-White Birch	23	23	0	0.0	23	0	0.0	293	293	0	0.0	293	0	0.0
C18	Poplar-White Birch-White Spruce-Balsam Fir	188	186	-2	-0.9	182	-6	-3.4	785	784	-2	-0.2	777	-9	-1.1
C19	Poplar-Jack Pine-White Spruce-Black Spruce	60	60	0	0.0	60	0	-0.1	254	254	0	0.0	254	0	-0.1
C20	White Pine-Red Pine-White Spruce-White Birch-Trembling Aspen	6	6	0	0.0	6	0	0.0	11	11	0	0.0	11	0	0.0
C21	White Cedar-White Pine-White Birch-White Spruce	597	578	-19	-3.1	555	-42	-7.0	3,291	3,272	-19	-0.6	3,015	-276	-8.4
C22	White Cedar-Other Conifer	192	186	-6	-3.1	176	-16	-8.3	1,408	1,402	-6	-0.4	1,295	-113	-8.0
C27	Sugar Maple-White Birch-Poplar-White Pine	1	1	0	0.0	1	0	0.0	26	26	0	0.0	26	0	0.0
C29	Sugar Maple-Yellow Birch	9	9	-1	-6.5	9	-1	-6.5	117	117	-1	-0.5	117	-1	-0.5
C31	Black Spruce-Tamarack: very moist mineral and wet organic soils	43	41	-2	-3.6	37	-6	-14.3	220	219	-2	-0.7	207	-14	-6.3
C32	White Cedar-Black Spruce-Tamarack: very moist mineral and wet organic soils	16	16	0	-2.0	15	-1	-6.7	55	54	0	-0.6	54	-1	-2.0
C33	White Cedar-Other Conifer: very moist to wet soils	22	22	0	0.0	22	0	0.0	155	155	0	0.0	155	0	-0.1
C35	Lowland Hardwoods: fresh to very moist soils	0	0	0	0.0	0	0	0.0	0	0	0	0.0	0	0	0.0
GRS	Grass and Meadow	2	2	0	0.0	2	0	0.0	5	5	0	0.0	5	0	0.0
ISL	Small Island	32	31	-1	-1.8	31	-1	-3.0	557	556	-1	-0.1	554	-2	-0.4

**APPENDIX 12-VI
OVERALL VEGETATION AND WETLAND LOCAL STUDY AREA AND REGIONAL STUDY LAND COVER AREA
SUMMARIES**

Table 12-VI-2: Riparian Land Cover Areas in the Vegetation and Wetlands Local Study Area and Regional Study Areas

Code	Title	Baseline Characterization (ha)	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)	Baseline Characterization (ha)	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)
NE01	Black Spruce - Jack Pine/White Spruce - White Birch	87	86	-1	-1.0	86	-2	-2.1	667	666	-1	-0.1	665	-3	-0.4
NE02	Jack Pine - Coarse Soil	138	135	-3	-2.1	135	-3	-2.1	367	364	-3	-0.8	364	-3	-0.8
NE03	White Birch - Trembling Aspen - Black Spruce - Coarse Soil	140	138	-2	-1.6	138	-2	-1.6	732	729	-2	-0.3	729	-2	-0.3
NE04	Black Spruce - Jack Pine - Coarse Soil	104	102	-2	-1.8	102	-2	-1.8	497	495	-2	-0.4	495	-2	-0.4
NE05	Black Spruce - Fine/Medium Soil	101	98	-2	-2.3	93	-8	-8.0	420	418	-2	-0.6	380	-41	-9.7
NE06	Black Spruce-Trembling Aspen/Trembling Aspen - Black Spruce - Jack Pine/Trembling Aspen - Black Spruce - Balsam Fir	1,314	1,287	-28	-2.1	1,238	-76	-5.8	5,906	5,879	-28	-0.5	5,577	-330	-5.6
NE07	Trembling Aspen - White Birch/Trembling Aspen - White Spruce - White Birch	1	1	0	-5.0	1	0	-5.0	7	6	0	-0.9	6	0	-0.9
NE08	Black Spruce - Feathermoss - Sphagnum - Moist Soil	110	106	-4	-3.5	106	-4	-3.6	526	522	-4	-0.7	504	-23	-4.3
NE09	Black Spruce - Larch/White Spruce - Balsam Fir - White Cedar	340	333	-7	-1.9	307	-33	-9.8	1,517	1,510	-7	-0.4	1,397	-120	-7.9
NE10	Trembling Aspen - Black Spruce - Balsam Poplar - Moist Soil	322	316	-6	-1.7	316	-6	-1.7	1,664	1,659	-6	-0.3	1,658	-6	-0.3
NE11	Black Spruce - Labrador Tea - Organic Soil	166	162	-5	-2.7	162	-5	-2.7	619	614	-5	-0.7	614	-5	-0.8
NE12	Black Spruce - Larch - Labrador Tea - Organic Soil	24	24	-1	-2.1	24	-1	-2.1	115	114	-1	-0.4	114	-1	-0.4
NE13	Black Spruce - Larch - Speckled Alder/White Cedar - Black Spruce	33	33	0	-0.6	33	0	-0.6	229	229	0	-0.1	229	0	-0.1
NE14	Black Spruce - Leatherleaf - Organic Soil	4	4	0	0.0	4	0	0.0	16	16	0	0.0	16	0	0.0
NE15	Red Maple	0	0	0	0.0	0	0	0.0	29	29	0	0.0	29	0	0.0
NW11	Red Pine -White Pine-Jack Pine: Very Shallow Soil	1	1	0	0.0	1	0	0.0	1	1	0	0.0	1	0	0.0
NW12	Black Spruce - Jack Pine: Very Shallow Soil	202	202	-1	-0.3	202	-1	-0.3	486	486	-1	-0.1	486	-1	-0.1
NW13	Jack Pine - Conifer: Dry - Moderately Fresh Sandy Soil	14	13	-1	-6.0	13	-1	-6.0	22	21	-1	-3.8	21	-1	-3.8
NW14	Pine-Spruce Mixedwood: Sandy Soil	210	209	-1	-0.5	209	-1	-0.5	385	384	-1	-0.3	384	-1	-0.3
NW16	Hardwood - Fir - Spruce Mixedwood: Sandy Soil	595	594	-1	-0.2	594	-1	-0.2	848	847	-1	-0.1	847	-1	-0.1
NW17	White Cedar: Fresh - Moist, Coarse - Fine Loamy Soil	28	28	0	-1.6	28	0	-1.6	176	176	0	-0.3	176	0	-0.3
NW18	Red Pine - White Pine: Fresh, Coarse Loamy Soil	0	0	0	0.0	0	0	0.0	9	9	0	0.0	9	0	0.0

**APPENDIX 12-VI
OVERALL VEGETATION AND WETLAND LOCAL STUDY AREA AND REGIONAL STUDY LAND COVER AREA
SUMMARIES**

Table 12-VI-2: Riparian Land Cover Areas in the Vegetation and Wetlands Local Study Area and Regional Study Areas

Code	Title	Baseline Characterization (ha)	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)	Baseline Characterization (ha)	Net Effect Assessment (ha)	Change in Area (ha)	Percent Change (%)	Cumulative Effects Assessment (ha)	Change in Area (ha)	Percent Change (%)
NW19	Hardwood - Fir - Spruce Mixedwood: Fresh, Sandy - Coarse Loamy Soil	2,218	2,191	-26	-1.2	2,190	-27	-1.2	5,729	5,703	-26	-0.5	5,701	-28	-0.5
NW20	Spruce - Pine / Feathermoss: Fresh, Sandy - Coarse Loamy Soil	210	205	-4	-2.1	205	-4	-2.1	756	752	-4	-0.6	752	-4	-0.6
NW21	Fir - Spruce Mixedwood: Fresh, Coarse Loamy Soil	604	596	-8	-1.4	596	-8	-1.4	1,712	1,704	-8	-0.5	1,703	-9	-0.5
NW22	Spruce - Pine / Ledum / Feathermoss: Moist, Sandy - Coarse Loamy Soil	404	395	-9	-2.3	395	-9	-2.3	760	750	-9	-1.2	750	-10	-1.3
NW23	Hardwood - Fir - Spruce - Mixedwood: Moist, Sandy - Coarse Loamy Soil	428	425	-3	-0.7	425	-3	-0.7	856	853	-3	-0.3	853	-3	-0.4
NW24	Red Pine - White Pine: Fresh, Fine Loamy Soil	1	1	0	0.0	1	0	0.0	1	1	0	0.0	1	0	0.0
NW25	Pine - Spruce / Feathermoss: Fresh, Silty Soil	0	0	0	0.0	0	0	0.0	7	7	0	0.0	7	0	0.0
NW26	Spruce - Pine / Feathermoss: Fresh, Fine Loamy - Clayey Soil	33	33	-1	-2.0	33	-1	-2.0	97	97	-1	-0.7	97	-1	-0.7
NW27	Spruce - Pine / Feathermoss: Fresh, Fine Loamy - Clayey Soil	7	7	0	0.0	7	0	0.0	25	25	0	0.0	25	0	0.0
NW28	Hardwood - Fir - Spruce Mixedwood: Fresh, Silty Soil	47	47	0	-0.3	47	0	-0.6	56	56	0	-0.2	56	0	-0.5
NW29	Hardwood - Fir - Spruce Mixedwood: Fresh, Fine Loamy - Clayey Soil	94	93	-1	-0.6	93	-1	-0.6	239	238	-1	-0.2	238	-1	-0.2
NW30	Black Ash Hardwood: Fresh, Silty - Clayey Soil	0	0	0	0.0	0	0	0.0	21	21	0	0.0	21	0	0.0
NW31	Spruce - Pine / Feathermoss: Moist, Silty - Clayey Soil	69	67	-2	-3.2	67	-2	-3.2	128	125	-2	-1.7	125	-2	-1.7
NW32	Fir - Spruce Mixedwood: Moist, Silty - Clayey Soil	96	95	-1	-1.3	95	-1	-1.3	238	237	-1	-0.5	237	-1	-0.5
NW33	Hardwood - Fir - Spruce Mixedwood: Moist, Silty - Clayey Soil	123	120	-2	-2.0	120	-2	-2.0	411	408	-2	-0.6	408	-2	-0.6
NW34	Treed Bog: Black Spruce / Sphagnum: Organic Soil	8	8	0	0.0	8	0	0.0	18	18	0	0.0	18	0	0.0
NW35	Poor Swamp: Black Spruce: Organic Soil	81	79	-2	-2.4	79	-2	-2.5	171	169	-2	-1.1	169	-2	-1.2
NW36	Intermediate Swamp: Black Spruce (Tamarack): Organic Soil	105	102	-3	-2.6	102	-3	-2.8	432	429	-3	-0.6	429	-3	-0.7
NW37	Rich Swamp: Cedar (Other Conifer): Organic Soil	88	87	-1	-0.8	87	-1	-0.8	306	306	-1	-0.2	306	-1	-0.3
NW38	Rich Swamp: Black Ash (Other Hardwood): Organic - Mineral Soil	20	20	0	0.0	20	0	0.0	28	28	0	0.0	28	0	0.0

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NW39	Open Bog: Ericaceous Shrub / Sedge / Sphagnum: Organic Soil	187	184	-2	-1.2	184	-3	-1.4	499	496	-2	-0.5	496	-3	-0.6
NW40	Treed Fen: Tamarack - Black Spruce / Sphagnum: Organic Soil	91	90	-1	-0.9	90	-1	-1.1	230	230	-1	-0.4	229	-1	-0.4
NW41	Open Poor Fen: Ericaceous Shrub - Sedge / Sphagnum: Organic Soil	21	20	-1	-4.9	20	-1	-4.9	74	73	-1	-1.4	73	-1	-1.4
NW42	Open Moderately Rich Fen: Ericaceous Shrub / Sedge: Organic Soil	16	16	0	0.0	16	0	0.0	53	53	0	0.0	53	0	0.0
NW43	Open Extremely Rich Fen: Ericaceous Shrub / Sedge / Brown Moss: Organic Soil	0	0	0	0.0	0	0	0.0	1	1	0	0.0	1	0	-1.1
NW44	Thicket Swamp: Organic - Mineral Soil	597	590	-7	-1.2	590	-7	-1.2	1,280	1,272	-7	-0.6	1,272	-8	-0.6
NW45	Shore Fen: Organic Soil	101	97	-5	-4.7	97	-5	-4.7	252	248	-5	-1.9	248	-5	-1.9
NW46	Meadow Marsh: Organic - Mineral Soil	458	453	-5	-1.2	453	-5	-1.2	1,101	1,096	-5	-0.5	1,096	-5	-0.5
NW47	Sheltered Marsh: Emergent: Sedimentary Peat Substrate	15	15	0	0.0	15	0	0.0	56	56	0	0.0	56	0	0.0
NW48	Exposed Marsh: Emergent: Mineral Substrate	21	21	0	0.0	21	0	0.0	26	26	0	0.0	26	0	0.0
NW50	Open Water Marsh: Submergent: Mineral Substrate	0	0	0	0.0	0	0	0.0	5	5	0	0.0	5	0	0.0
OMS	Open Wetland	1,069	1,051	-18	-1.7	1,038	-31	-2.9	5,597	5,580	-18	-0.3	5,410	-187	-3.3
OTH	Treed Wetland	2	2	0	0.0	2	0	0.0	7	7	0	0.0	7	0	0.0
TMS	Other	60	59	-2	-2.8	56	-4	-6.9	339	337	-2	-0.5	332	-7	-2.0
Riparian subtotal		13,573	13,359	-213	-1.6	13,204	-369	-2.7	49,180	48,967	-213	-30	47,828	-1,353	-2.8
Disturbances															
BASE CASE DISTURBANCE	Anthropogenic Disturbance	1,019	1,001	-18	-1.7	993	-25	-2.5	2018	2,000	-18	-0.9	1979	-39	-1.9
PROJECT CASE DISTURBANCE	Project Footprint	0	231	231	0.0	227	227	0.0	0	231	231	0.0	227	227	0.0
RFD CASE DISTURBANCE	Reasonably Foreseeable Developments	0	0	0	0.0	167	167	0.0	0	0	0	0.0	1165	1,165	0.0
Total		14,591	14,591	0	0.0	14,591	0	0.0	51,198	51,198	0	0.0	51,198	0	0.0

ha = hectare; % = percent.