



**ENVIRONMENTAL ASSESSMENT REPORT FOR THE PHASE 1
NEW TRANSMISSION LINE TO PICKLE LAKE PROJECT
SECTION 6.0: BIOLOGICAL ENVIRONMENT BASELINE
CHARACTERIZATION AND EFFECTS ASSESSMENT**

APPENDIX 6.1D

Changes in Land Cover Classes in the Local and Regional Study Areas for the Preliminary Proposed Corridor and Alternatives during the Project and Cumulative Effects Assessment

APPENDIX 6.1D

Changes in Land Cover Classes in the Local and Regional Study Areas for the Preliminary Proposed Corridor and Alternatives during the Net and Cumulative Effects Assessment

Table 6.1D-1: Local Study Area and Regional Study Area Land Cover Areas – Preliminary Proposed Corridor

Land Cover Class	Preliminary Proposed Corridor									
	Local Study Area					Regional Study Area				
	Baseline Characterization (ha)	Net Effects (ha)	Change in Area from Baseline Characterization to Net Effects (ha)	Cumulative Effects (ha)	Change in Area from Baseline Characterization to Cumulative Effects (ha)	Baseline Characterization (ha)	Net Effects (ha)	Change in Area from Baseline Characterization to Net Effects (ha)	Cumulative Effects (ha)	Change in Area from Baseline Characterization to Cumulative Effects (ha)
Bedrock	64	62	-2	62	-2	130	129	-2	129	-2
Bog – open	326	324	-2	324	-2	1,348	1,345	-2	1,321	-27
Bog – treed	3,413	3,370	-43	3,324	-89	14,734	14,691	-43	14,077	-657
Fen – open	68	68	0	68	0	424	424	0	418	-6
Fen – treed	1,084	1,073	-11	1,066	-17	5,194	5,184	-11	5,069	-126
Forest – dense coniferous	36,350	35,737	-613	35,334	-1,016	154,404	153,790	-613	151,828	-2,576
Forest – dense deciduous	1,720	1,684	-36	1,676	-43	6,766	6,730	-36	6,699	-67
Forest – dense mixed	23,217	22,853	-364	22,805	-412	101,798	101,434	-364	101,008	-791
Forest – regenerating depletion	6	6	0	6	0	10	10	0	8	-2
Forest – sparse	16,223	15,961	-262	15,722	-501	77,645	77,383	-262	76,046	-1,599
Forest Depletion – burns	2,058	2,031	-27	1,574	-485	7,568	7,541	-27	6,584	-984
Forest Depletion – cuts	6,161	6,009	-152	6,009	-152	17,352	17,200	-152	17,167	-185
OHN Waterbody	8,435	8,420	-15	8,341	-94	60,419	60,404	-15	60,173	-246
Other – unknown	313	312	-2	307	-7	1,372	1,370	-2	1,333	-39
Water – deep clear	1,494	1,486	-8	1,479	-15	7,964	7,956	-8	7,892	-71
Water – shallow/sedimented	0	0	0	0	0	<1	<1	0	<1	0
Anthropogenic baseline disturbance	2,836	2,743	-93	2,576	-260	9,818	9,725	-93	9,084	-734
Project Disturbance	0	1,630	1,630	1,608	1,608	0	1,630	1,630	1,608	1,608
RFD Disturbance	0	0	0	1,488	1,488	0	0	0	6,504	6,504
Total	103,768	103,768	-	103,768	-	466,946	466,946	-	466,946	-

Notes:

ha = hectare; OHN = Ontario Hydrological Network; RFD = Reasonably Foreseeable Developments

APPENDIX 6.1D

Changes in Land Cover Classes in the Local and Regional Study Areas for the Preliminary Proposed Corridor and Alternatives during the Net and Cumulative Effects Assessment

Table 6.1D-2: Local Study Area and Regional Study Area Land Cover Areas – Corridor Alternative Around Mishkeegogamang

Land Cover Class	Corridor Alternative Around Mishkeegogamang									
	Local Study Area					Regional Study Area				
	Baseline Characterization (ha)	Net Effects (ha)	Change in Area from Baseline Characterization to Net Effects (ha)	Cumulative Effects (ha)	Change in Area from Baseline Characterization to Cumulative Effects (ha)	Baseline Characterization (ha)	Net Effects (ha)	Change in Area from Baseline Characterization to Net Effects (ha)	Cumulative Effects (ha)	Change in Area from Baseline Characterization to Cumulative Effects (ha)
Bedrock	24	23	>-1	23	>-1	149	148	>-1	148	>-1
Bog – open	396	392	-4	391	-5	1,526	1,523	-4	1,499	-28
Bog – treed	2,505	2,474	-31	2,419	-86	11,706	11,675	-31	11,045	-661
Fen – open	177	175	-2	174	-3	736	734	-2	717	-19
Fen – treed	851	844	-7	834	-17	3,378	3,371	-7	3,263	-114
Forest – dense coniferous	30,568	30,017	-551	28,659	-1,909	131,319	130,768	-551	124,590	-6,729
Forest – dense deciduous	3,508	3,460	-48	3,445	-64	13,014	12,966	-48	12,808	-206
Forest – dense mixed	18,494	18,130	-364	17,947	-547	75,701	75,336	-364	73,620	-2,080
Forest – regenerating depletion	8	8	0	8	0	155	155	0	153	-2
Forest – sparse	14,265	14,067	-198	13,737	-528	62,401	62,203	-198	60,626	-1,775
Forest Depletion – burns	1,082	1,066	-15	609	-473	3,483	3,467	-15	2,510	-972
Forest Depletion – cuts	3,009	2,955	-54	2,845	-165	9,995	9,941	-54	9,829	-167
OHN Waterbody	11,542	11,509	-33	11,396	-146	78,549	78,516	-33	77,495	-1,054
Other – unknown	149	147	-1	143	-6	849	847	-1	810	-39
Water – deep clear	1,830	1,820	-10	1,805	-26	9,120	9,110	-10	8,942	-178
Water – shallow/sedimented	0	0	0	0	0	9	9	0	9	0
Anthropogenic baseline disturbance	4,262	4,126	-136	3,807	-455	9,736	9,600	-136	8,714	-1,022
Project Disturbance	0	1,455	1,455	1,418	1,418	0	1,455	1,455	1,418	1,418
RFD Disturbance	0	0	0	3,011	3,011	0	0	0	13,631	13,631
Total	92,671	92,671	-	92,671	-	411,825	411,825	-	411,825	-

Notes:

ha = hectare; OHN = Ontario Hydrological Network; RFD = Reasonably Foreseeable Developments

APPENDIX 6.1D

Changes in Land Cover Classes in the Local and Regional Study Areas for the Preliminary Proposed Corridor and Alternatives during the Net and Cumulative Effects Assessment

Table 6.1D-3: Local Study Area and Regional Study Area Land Cover Areas – Corridor Alternative Through Mishkeegogamang

Land Cover Class	Corridor Alternative Through Mishkeegogamang									
	Local Study Area					Regional Study Area				
	Baseline Characterization (ha)	Net Effects (ha)	Change in Area from Baseline Characterization to Net Effects (ha)	Cumulative Effects (ha)	Change in Area from Baseline Characterization to Cumulative Effects (ha)	Baseline Characterization (ha)	Net Effects (ha)	Change in Area from Baseline Characterization to Net Effects (ha)	Cumulative Effects (ha)	Change in Area from Baseline Characterization to Cumulative Effects (ha)
Bedrock	29	29	0	29	0	148	148	0	148	0
Bog – open	353	346	-7	345	-8	1,475	1,469	-7	1,445	-31
Bog – treed	2,230	2,202	-28	2,147	-83	10,176	10,147	-28	9,517	-658
Fen – open	144	143	-1	142	-2	635	634	-1	616	-19
Fen – treed	631	626	-5	616	-15	2,620	2,615	-5	2,507	-113
Forest – dense coniferous	29,122	28,583	-539	27,225	-1,897	127,536	126,998	-539	120,819	-6,717
Forest – dense deciduous	3,474	3,424	-49	3,409	-65	12,626	12,576	-49	12,418	-207
Forest – dense mixed	18,112	17,761	-351	17,578	-534	71,856	71,504	-351	69,788	-2,067
Forest – regenerating depletion	110	107	-3	107	-3	835	832	-3	830	-5
Forest – sparse	13,913	13,720	-193	13,390	-523	61,067	60,874	-193	59,296	-1,770
Forest Depletion – burns	1,445	1,423	-22	966	-480	4,091	4,068	-22	3,112	-979
Forest Depletion – cuts	3,009	2,955	-54	2,845	-165	9,998	9,944	-54	9,831	-167
OHN Waterbody	11,885	11,853	-32	11,740	-145	76,623	76,591	-32	75,569	-1,053
Other – unknown	219	217	-1	212	-6	949	947	-1	910	-39
Water – deep clear	1,677	1,666	-11	1,651	-26	8,610	8,599	-11	8,430	-179
Water – shallow/sedimented	0	0	0	0	0	9	9	0	9	0
Anthropogenic baseline disturbance	4,830	4,681	-149	4,362	-467	9,969	9,820	-149	8,935	-1,034
Project Disturbance	0	1,445	1,445	1,408	1,408	0	1,445	1,445	1,408	1,408
RFD Disturbance	0	0	0	3,011	3,011	0	0	0	13,631	13,631
Total	91,182	91,182	-	91,182	-	399,220	399,220	-	399,220	-

Notes:

ha = hectare; OHN = Ontario Hydrological Network; RFD = Reasonably Foreseeable Developments

