

APPENDIX B TERRESTRIAL PLANTS, HABITAT AND ECOSYSTEMS

Table B-1: Composition of native broad habitat types in the Regional, Project and Local Study Areas as a percentage of total land area -

Native Broad Habitat Type	Regional Study Area	Project Study Area	Local Study Area
Ash on all ecosites	0.9	3.0	3.6
Balsam fir dominant on mineral	0.0	0.0	-
Balsam fir dominant on non-mineral	0.1	0.3	0.3
Balsam fir mixedwood on mineral	0.4	0.7	1.8
Balsam fir mixedwood on outcrop	0.3	1.4	0.3
Balsam fir mixture on mineral	0.1	0.1	0.1
Balsam fir mixture on non-mineral	0.1	0.2	0.0
Balsam fir mixture on outcrop	0.1	0.8	0.1
Balsam poplar on all ecosites	0.7	0.6	0.5
Barren on bedrock outcrop	0.4	0.3	0.3
Beaver flood and riparian peatland	1.7	4.7	4.7
Black spruce dominant on mineral	0.2	0.3	-
Black spruce dominant on outcrop	0.0	0.0	-
Black spruce dominant on shallow peatland	0.3	0.4	0.0
Black spruce dominant on swamp	0.0	-	-
Black spruce dominant on wet peatland	14.9	11.7	14.2
Black spruce mixedwood on mineral	0.2	0.2	0.0
Black spruce mixedwood on outcrop	0.1	0.2	0.1
Black spruce mixedwood on shallow peatland	0.3	0.3	1.1
Black spruce mixedwood on wet peatland	0.0	0.0	-
Black spruce mixture on mineral	0.3	0.1	0.1
Black spruce mixture on outcrop	0.4	1.0	0.3
Black spruce mixture on shallow peatland	0.9	1.1	1.5
Black spruce mixture on wet peatland	5.1	2.2	1.3
Broadleaf mixture on all ecosites	0.1	0.1	0.0
Bur oak on all ecosites	0.1	0.1	-
Cedar on all ecosites	0.4	0.0	0.0
Emergent on lower beach	0.5	0.9	1.2
Emergent on upper beach	0.0	0.0	-
Jack pine dominant on mineral	5.3	3.1	3.4
Jack pine dominant on shallow peatland	0.0	-	-

Native Broad Habitat Type	Regional Study Area	Project Study Area	Local Study Area
Jack pine mixedwood on mineral	0.7	0.1	0.2
Jack pine mixedwood on outcrop	0.8	1.8	2.3
Jack pine mixedwood on shallow peatland	0.0	0.0	-
Jack pine mixture on mineral	1.2	0.1	-
Jack pine mixture on outcrop	4.4	8.3	9.0
Jack pine mixture on shallow peatland	0.1	0.0	-
Low vegetation on mineral	1.2	1.1	1.4
Low vegetation on wet peatland	6.2	0.9	1.2
Manitoba maple on all ecosites	0.0	0.0	0.1
Red, white pine on all ecosites	0.4	-	-
Tall shrub on mineral	0.2	0.1	0.0
Tall shrub on wet peatland	5.0	4.8	6.2
Tamarack dominant on mineral	0.0	-	-
Tamarack dominant on shallow peatland	0.1	0.0	-
Tamarack dominant on swamp	0.0	-	-
Tamarack dominant on wet peatland	7.9	3.5	1.2
Tamarack mixedwood on thin peatland	0.0	-	-
Tamarack mixedwood on wet peatland	0.0	-	-
Tamarack mixture on mineral	0.0	-	-
Tamarack mixture on shallow peatland	0.2	0.2	0.4
Tamarack mixture on swamp	0.0	-	-
Tamarack mixture on wet peatland	4.1	1.1	0.3
Trembling aspen dominant on mineral	3.1	1.5	2.6
Trembling aspen dominant on non-mineral	0.3	0.4	0.5
Trembling aspen dominant on outcrop	0.1	0.4	0.4
Trembling aspen mixedwood on mineral	3.1	5.4	8.7
Trembling aspen mixedwood on non-mineral	0.9	1.3	1.7
Trembling aspen mixedwood on outcrop	1.2	4.1	4.5
Trembling aspen mixture on mineral	7.6	5.5	6.9
Trembling aspen mixture on non-mineral	1.4	2.3	1.7
Trembling aspen mixture on outcrop	0.4	1.6	1.8
White birch on all ecosites	0.4	0.6	0.1
White spruce on all ecosites	0.7	2.3	1.4

Native Broad Habitat Type	Regional Study Area	Project Study Area	Local Study Area
Young regeneration on mineral	0.9	0.1	0.1
Young regeneration on non-mineral	0.0	-	-
Young regeneration on outcrop	0.2	0.6	1.1
Young regeneration on shallow peatland	0.5	0.7	1.1
Young regeneration on wet peatland	1.0	1.1	0.5
Unclassified	0.0	0.1	0.1
All native habitat	88.5	84.0	90.7
<i>Total land area (ha)</i>	<i>1,305,627</i>	<i>76,007</i>	<i>9,112</i>
<i>Total native habitat area (ha)</i>	<i>1,156,051</i>	<i>63,855</i>	<i>8,263</i>
Number of habitat types in study area	69	59	49

Table B-2: Broad habitat composition of the riparian zone in the Regional, Project and Local Study Areas, as a percentage of total riparian area

Broad Habitat Type	Regional Study Area	Project Study Area	Local Study Area
Ash on all ecosites	3.2	5.2	3.2
Balsam fir dominant on mineral	0.0	0.0	-
Balsam fir dominant on non-mineral	0.3	0.4	0.0
Balsam fir mixedwood on mineral	0.6	0.8	1.7
Balsam fir mixedwood on outcrop	1.2	4.1	1.9
Balsam fir mixture on mineral	0.1	0.2	-
Balsam fir mixture on non-mineral	0.1	0.2	-
Balsam fir mixture on outcrop	0.3	0.9	-
Balsam poplar on all ecosites	1.7	1.3	1.3
Barren on bedrock outcrop	1.0	0.9	4.6
Black spruce dominant on mineral	0.4	0.2	-
Black spruce dominant on shallow peatland	0.1	0.0	-
Black spruce dominant on wet peatland	6.1	4.1	3.5
Black spruce mixedwood on mineral	0.1	0.1	0.3
Black spruce mixedwood on outcrop	0.1	0.2	-
Black spruce mixedwood on shallow peatland	0.2	0.4	0.3
Black spruce mixedwood on wet peatland	0.0	0.0	-
Black spruce mixture on mineral	0.2	0.0	-
Black spruce mixture on outcrop	0.6	0.7	0.1
Black spruce mixture on shallow peatland	0.6	0.6	0.8
Black spruce mixture on unclassified	0.0	-	-
Black spruce mixture on wet peatland	2.0	0.7	0.3
Broadleaf mixture on all ecosites	0.4	0.1	0.3
Bur oak on all ecosites	0.2	0.8	-
Cedar on all ecosites	0.3	-	-
Jack pine dominant on mineral	4.0	3.5	2.2
Jack pine dominant on shallow peatland	0.1	-	-
Jack pine mixedwood on mineral	0.5	0.1	0.2
Jack pine mixedwood on outcrop	2.2	2.9	2.0
Jack pine mixedwood on shallow peatland	0.1	0.0	-
Jack pine mixture on mineral	0.7	0.1	-
Jack pine mixture on outcrop	7.9	9.2	6.0
Jack pine mixture on shallow peatland	0.2	-	-
Low vegetation on mineral	3.8	2.3	4.6
Low vegetation on wet peatland	6.3	2.8	5.4

Broad Habitat Type	Regional Study Area	Project Study Area	Local Study Area
Manitoba maple on all ecosites	0.4	0.1	0.6
Red, white pine on all ecosites	0.0	-	-
Scots pine on all ecosites	0.0	-	-
Tall shrub on mineral	0.7	0.5	-
Tall shrub on wet peatland	13.2	7.3	10.4
Tamarack dominant on shallow peatland	0.1	-	-
Tamarack dominant on swamp	0.0	-	-
Tamarack dominant on wet peatland	3.3	2.2	3.3
Tamarack mixedwood on wet peatland	0.0	-	-
Tamarack mixture on mineral	0.0	-	-
Tamarack mixture on shallow peatland	0.1	0.0	-
Tamarack mixture on swamp	0.0	-	-
Tamarack mixture on wet peatland	1.9	0.3	-
Trembling aspen dominant on mineral	2.6	2.1	3.9
Trembling aspen dominant on non-mineral	0.9	0.7	0.8
Trembling aspen dominant on outcrop	0.6	0.8	0.2
Trembling aspen mixedwood on mineral	4.3	7.7	11.3
Trembling aspen mixedwood on non-mineral	2.0	2.4	1.4
Trembling aspen mixedwood on outcrop	4.4	8.5	6.6
Trembling aspen mixedwood on unclassified	0.0	-	-
Trembling aspen mixture on mineral	8.7	9.2	13.0
Trembling aspen mixture on non-mineral	2.8	3.3	1.1
Trembling aspen mixture on outcrop	1.7	3.3	3.3
Trembling aspen mixture on unclassified	0.0	-	-
White birch on all ecosites	0.8	0.8	0.1
White spruce on all ecosites	2.1	5.2	2.0
Young regeneration on mineral	0.6	0.1	0.4
Young regeneration on non-mineral	0.0	-	-
Young regeneration on outcrop	0.7	0.8	1.5
Young regeneration on shallow peatland	0.5	0.5	0.8
Young regeneration on wet peatland	0.7	0.7	0.4
Unknown on mineral	1.1	0.9	0.1
All types	100.0	100.0	100.0
<i>Total riparian area (ha)</i>	<i>11,255</i>	<i>1,255</i>	<i>152</i>

Table B-3: Cumulative total terrestrial habitat losses in Western and Eastern Portions of the Regional and Project Study Areas

Study Area	West	East
Regional Study Area		
Land Area (ha)	731,543	178,902
Human (ha)	110,027	3,279
Cumulative Effects (%)	15.0	1.8
Project Study Area		
Land Area (ha)	31,849	43,983
Human (ha)	10,953	1,200
Cumulative Effects (%)	34.4	2.7

Table B-4: List of plant species identified in the Regional Study Area*

Scientific Name	Common Name	MBCDC S-Rank	Number in HLSA**	Number in PSA**	Number in RSA**	Other ***
<i>Abies balsamea</i> (L.) P. Mill.	Balsam fir	S5	0	7	7	
<i>Acer spicatum</i> Lam.	Mountain maple	S5	0	4	4	
<i>Achillea millefolium</i> L. var. <i>borealis</i> (Bong.) Farw.	Common yarrow	S5	0	2	2	
<i>Acorus americanus</i> (Raf.) Raf.	Sweet flag	S5	0	3	17	
<i>Actaea rubra</i> (Ait.) Willd.	Baneberry	S5	0	2	2	
<i>Agastache foeniculum</i> (Pursh) Kuntze	Blue giant hyssop	S5	0	1	1	
<i>Agrostis scabra</i> Willd.	Rough hair-grass	S5	0	3	5	
<i>Alnus incana</i> (L.) Moench. subsp. <i>rugosa</i>	Speckled alder	S5	0	8	8	
<i>Alopecurus aequalis</i> Sobol.	Short-awned foxtail	S5	0	1	1	
<i>Amphicarpaea bracteata</i> (L.) Fern.	Hog-peanut	S4	0	2	2	
<i>Andropogon gerardii</i> Vitman	Big bluestem	S4	0	1	1	
<i>Anemone virginiana</i> var. <i>alba</i> (Oakes) Wood	Riverbank anemone	SNA	0	1	1	
<i>Antennaria neglecta</i> Greene	Field cat's-foot	S5	0	2	2	
<i>Apocynum androsaemifolium</i> L.	Spreading dogbane	S5	0	3	3	
<i>Aralia nudicaulis</i> L.	Wild sarsaparilla	S5	0	8	8	
<i>Arctostaphylos uva-ursi</i> (L.) Spreng.	Common bearberry	S5	0	3	3	
<i>Argentina anserina</i> (L.) Rydb.	Silverweed	S5	0	0	1	
<i>Asarum canadense</i> L.	Wild ginger	S3S4	0	8	8	
<i>Asclepias incarnata</i> L.	Swamp milkweed	S4	0	0	2	
<i>Asclepias syriaca</i> L.	Common milkweed	S4	0	0	5	
<i>Betula papyrifera</i> Marsh.	White birch	S5	0	5	5	
<i>Betula pumila</i> L.	Swamp birch	S5	0	1	1	
<i>Bidens cernua</i> L.	Smooth beggar-ticks	S5	0	4	9	
<i>Botrychium multifidum</i> (Gmel.) Trev.	Leathery grape-fern	S3	0	1	1	

Scientific Name	Common Name	MBCDC S-Rank	Number in HLSA**	Number in PSA**	Number in RSA**	Other ***
<i>Bromus inermis</i> Leys.	Smooth brome grass	SNA	0	0	2	F1
<i>Calamagrostis canadensis</i> (Michx.) Nutt.	Marsh reed-grass	S5	0	14	34	
<i>Calla palustris</i> L.	Wild calla	S5	0	4	22	
<i>Caltha palustris</i> L.	Marsh-marigold	S5	0	2	3	
<i>Campanula aparinoides</i> Pursh	Marsh bellflower	S5	0	11	21	
<i>Campanula rotundifolia</i> L.	Harebell	S5	0	1	1	
<i>Capsella bursa-pastoris</i> (L.) Medik.	Shepherd's purse	SNA	0	8	8	I/NW
<i>Carex aquatilis</i> Wahl.	Water sedge	S5	0	9	13	
<i>Carex diandra</i> Schrank	Two-stamened sedge	S5	0	1	2	
<i>Carex disperma</i> Dewey	Two-seeded sedge	S5	0	2	2	
<i>Carex gracillima</i> Schwein.	Slender sedge	S3	0	1	1	
<i>Carex intumescens</i> Rudge	Swollen sedge	S3?	0	6	7	
<i>Carex merritt-fernaldii</i> Mackenzie	Merritt Fernald's sedge	S1	0	4	4	
<i>Carex pedunculata</i> Muhl. Ex Willd.	Stalked sedge	S3?	0	3	3	
<i>Carex pseudocyperus</i> L.	Cyperus-like sedge	S4	0	3	5	
<i>Carex utriculata</i> Boott	Bottle sedge	S5	0	0	2	
<i>Carex vaginata</i> Tausch	Sheathed sedge	S5	0	3	6	
<i>Celastrus scandens</i> L.	Climbing bittersweet	S4	0	1	1	
<i>Ceratophyllum demersum</i> L.	Coontail	S5	0	1	14	
<i>Chamaedaphne calyculata</i> (L.) Moench	Leather-leaf	S5	0	1	1	
<i>Chenopodium album</i> L.	Lamb's-quarters	SNA	0	108	147	I/NW
<i>Cicuta bulbifera</i> L.	Bulb-bearing water-hemlock	S5	0	6	23	
<i>Cicuta maculata</i> L.	Water-hemlock	S5	0	0	2	
<i>Circaea alpina</i> L.	Small enchanter's-nightshade	S5	0	6	12	

Scientific Name	Common Name	MBCDC S-Rank	Number in HLSA**	Number in PSA**	Number in RSA**	Other ***
<i>Cirsium arvense</i> (L.) Scop.	Canada thistle	SNA	9	191	226	F2/P2/NW
<i>Cirsium vulgare</i> (Savi) Ten.	Bull thistle	SNA	0	47	47	P2/NW
<i>Cladina mitis</i> (Sandst.) Hustich	Green reindeer lichen		0	4	4	
<i>Cladina rangiferina</i> (L.) Nyl.	Grey reindeer lichen		0	3	3	
<i>Clintonia borealis</i> (Ait.) Raf.	Blue bead-lily	S4?	0	9	9	
<i>Comarum palustre</i> L.	Marsh five-finger	S5	0	8	25	
<i>Coptis trifolia</i> (L.) Salisb.	Goldthread	S5	0	1	1	
<i>Cornus canadensis</i> L.	Bunchberry	S5	0	9	9	
<i>Cornus stolonifera</i> Michx.	Red osier dogwood	S5	0	7	7	
<i>Corydalis sempervirens</i> (L.) Pers.	Pink corydalis	S5	0	1	1	
<i>Corylus cornuta</i> Marsh.	Beaked hazelnut	S5	0	7	7	
<i>Crataegus succulenta</i> Schrad. Ex Link	Long-spined hawthorn	S4	0	1	1	
<i>Danthonia intermedia</i> Vasey	Poverty oat-grass	S2?	0	4	4	
<i>Descurainia sophioides</i> (Fisch. Ex Hook.) O. E. Schulz	Northern flixweed	S2	0	3	3	
<i>Diervilla lonicera</i> P. Mill.	Bush-honeysuckle	S5	0	8	8	
<i>Doellingeria umbellata</i> (P. Mill.) Nees	Flat-topped white aster	S5	0	1	1	
<i>Dulichium arundinaceum</i> (L.) Britt.	Three-way sedge	S2	0	1	1	
<i>Eleocharis palustris</i> (L.) Roemer & J. A. Schultes	Creeping spike-rush	S5	0	3	26	
<i>Elodea canadensis</i> Michx.	Canada waterweed	S5	0	3	12	
<i>Equisetum arvense</i> L.	Common horsetail	S5	0	9	20	
<i>Equisetum fluviatile</i> L.	Water horsetail	S5	0	1	5	
<i>Equisetum sylvaticum</i> L.	Wood horsetail	S5	0	10	18	
<i>Eurybia macrophylla</i> (L.) Cassini	White wood aster	S1	0	9	9	
<i>Fallopia cilinodis</i> (Michx.) Holub	Fringed black bindweed	S5	0	1	1	
<i>Fragaria virginiana</i> Dcne.	Smooth wild strawberry	S5	0	11	11	

Scientific Name	Common Name	MBCDC S-Rank	Number in HLSA**	Number in PSA**	Number in RSA**	Other ***
<i>Fraxinus nigra</i> Marsh.	Black ash	S3	10	24	24	
<i>Galium boreale</i> L.	Northern bedstraw	S5	0	6	7	
<i>Galium trifidum</i> L.	Small bedstraw	S5	0	11	26	
<i>Galium triflorum</i> Michx.	Sweet-scented bedstraw	S5	0	5	6	
<i>Gaultheria procumbens</i> L.	Teaberry	S3S4	0	5	5	
<i>Geum macrophyllum</i> Willd.	Large-leaved avens	S4S5	0	2	2	
<i>Glyceria canadensis</i> (Michx.) Trin.	Rattlesnake grass	S1	0	4	4	
<i>Heuchera richardsonii</i> R. Br.	Alumroot	S5	0	1	1	
<i>Hieracium umbellatum</i> L.	Canada hawkweed	S5	0	1	1	
<i>Hordeum jubatum</i> L.	Wild barley	S5	0	3	4	I/NW
<i>Hylocomium splendens</i> (Hedw.) Schimp.	Stair-step moss		0	1	1	
<i>Impatiens capensis</i> Meerb.	Spotted touch-me-not	S5	0	3	17	
<i>Iris versicolor</i> L.	Blue flag	S4	0	0	15	
<i>Juniperus communis</i> L.	Common juniper	S5	0	4	4	
<i>Larix laricina</i> (Du Roi) Koch	Tamarack	S5	0	1	1	
<i>Lathyrus palustris</i> L.	Marsh vetchling	S5	0	1	1	
<i>Lathyrus venosus</i> Muhl. ex Willd.	Wild peavine	S5	0	4	4	
<i>Lemna minor</i> L.	Duckweed	SNA	0	3	19	
<i>Lemna trisulca</i> L.	Star-duckweed	S5	0	2	9	
<i>Leucanthemum vulgare</i> Lam.	Ox-eye daisy	SNA	0	18	18	P1/NW
<i>Linnaea borealis</i> L.	Twinflower	S5	0	5	5	
<i>Lithospermum canescens</i> (Michx.) Lehm.	Hoary puccoon	S5	2	2	2	
<i>Lonicera dioica</i> L.	Twining honeysuckle	S5	0	3	3	
<i>Lotus corniculatus</i> L.	Bird's-foot trefoil	SNA	0	5	5	I
<i>Lycopodium annotinum</i> L.	Stiff club-moss	S5	0	3	3	
<i>Lycopodium clavatum</i> L.	Running club-moss	S4	0	2	2	

Scientific Name	Common Name	MBCDC S-Rank	Number in HLSA**	Number in PSA**	Number in RSA**	Other ***
<i>Lycopodium dendroideum</i> Michx.	Ground-pine	S5	0	1	1	
<i>Lycopus americanus</i> Muhl. ex W. Bart.	Water-hore-hound	S5	0	0	2	
<i>Lycopus uniflorus</i> Michx.	Water-hore-hound	S5	0	12	33	
<i>Lysimachia terrestris</i> (L.) B. S. P.	Yellow loosestrife	S3	0	2	5	
<i>Lysimachia thyrsoflora</i> L.	Tufted loosestrife	S5	1	7	27	
<i>Maianthemum canadense</i> Desf.	Two-leaved solomon's-seal	S5	0	10	10	
<i>Maianthemum trifolium</i> (L.) Sloboda	Three-leaved solomon's-seal	S5	0	4	4	
<i>Matricaria discoidea</i> DC.	Pineapple weed	SNA	0	4	11	I
<i>Medicago lupulina</i> L.	Black medick	SNA	0	23	51	I
<i>Medicago sativa</i> L.	Alfalfa	SNA	0	3	3	F3
<i>Medicago sativa</i> ssp. <i>falcata</i> (L.) Arcang.	Yellow lucerne	SNA	1	1	1	I
<i>Megalodonta beckii</i> (Torr. Ex Spreng.) Greene	Water-marigold	S3	0	3	3	
<i>Melilotus albus</i> Medik.	White sweet clover	SNA	0	66	71	F2
<i>Melilotus officinalis</i> (L.) Lam.	Yellow sweet clover	SNA	1	47	47	
<i>Mentha arvensis</i> L.	Common mint	S5	0	6	11	
<i>Mitella nuda</i> L.	Bishop's-cap	S5	0	6	6	
<i>Myriophyllum sibiricum</i> Komarov	Spiked water-milfoil	S5	0	0	12	
<i>Nuphar variegata</i> Dur.	Yellow pond-lily	S5	0	1	25	
<i>Nymphaea odorata</i> Ait.	Fragrant water-lily	S2	0	0	6	
<i>Onoclea sensibilis</i> L.	Sensitive fern	S3S4	2	7	10	
<i>Orthilia secunda</i> (L.) House	One-sided pyrola	S5	0	3	3	
<i>Oryzopsis asperifolia</i> Michx.	White-grained mountain-rice grass	S5	0	6	6	
<i>Osmorhiza claytonii</i> (Michx.) C. B. Clarke	Wooly sweet cicely	S2	2	3	3	
<i>Osmunda claytoniana</i> L.	Interrupted fern	S3	0	0	1	
<i>Ostrya virginiana</i> (P. Mill.) K. Koch	Hop-hornbeam	S2	0	20	20	
<i>Parthenocissus quinquefolia</i> (L.) Planch.	Virginia creeper	S4	0	1	1	

Scientific Name	Common Name	MBCDC S-Rank	Number in HLSA**	Number in PSA**	Number in RSA**	Other ***
<i>Persicaria amphibia</i> (L.) Gray	Water smartweed	S5	0	7	14	
<i>Persicaria sagittata</i> (L.) H. Gross	Arrow-leaved tear-thumb	S3	0	3	4	
<i>Petasites frigidus</i> (L.) Fries var. <i>palmatum</i> (Ait.) Cronq.	Palmate-leaved colt's-foot	S5	0	6	6	
<i>Phalaris arundinacea</i> L.	Reed-canary-grass	S5	0	2	2	F1/P2
<i>Picea glauca</i> (Moench.) Voss	White spruce	S5	0	1	1	
<i>Picea mariana</i> (Mill.) BSP	Black spruce	S5	0	10	10	
<i>Pinus banksiana</i> Lamb.	Jack pine	S5	0	4	4	
<i>Piptatherum pungens</i> (Torr. ex Spreng.) Dorn	Northern rice grass	S5	0	3	3	
<i>Plantago major</i> L.	Common plantain	SNA	0	20	23	I
<i>Pleurozium schreberi</i> (Brid.) Mitt.	Big red stem		0	7	7	
<i>Polytrichum juniperinum</i> Hedw.	Juniper moss		0	3	3	
<i>Populus balsamifera</i> L.	Balsam-poplar	S5	0	1	1	
<i>Populus tremuloides</i> Michx.	Trembling aspen	S5	0	9	9	
<i>Potamogeton amplifolius</i> Tuckerman	Large-leaved pondweed	S2?	0	1	3	
<i>Potamogeton gramineus</i> L.	Various-leaved pondweed	S5	0	4	29	
<i>Potamogeton pusillus</i> L. ssp. <i>tenuissimus</i>	Small pondweed	S2	0	0	2	
<i>Potamogeton richardsonii</i> (Benn.) Rydb.	Richardson's pondweed	S5	0	0	10	
<i>Potamogeton robbinsii</i> Oakes	Robbin's pondweed	S2	0	2	16	
<i>Potamogeton spirillus</i> Tuckerman	Fennel-leaved Pondweed	S2	0	0	2	
<i>Prunus nigra</i> Ait.	Canada plum	S4	0	3	3	
<i>Prunus pensylvanica</i> L.	Pin-cherry	S5	0	1	1	
<i>Prunus pumila</i> L.	Sand cherry	S4	0	4	4	
<i>Prunus virginiana</i> L.	Choke cherry	S5	0	3	3	
<i>Pteridium aquilinum</i> (L.) Kuhn	Bracken	S4S5	0	3	3	

Scientific Name	Common Name	MBCDC S-Rank	Number in HLSA**	Number in PSA**	Number in RSA**	Other ***
<i>Pyrola asarifolia</i> Michx.	Pink pyrola	S5	0	3	3	
<i>Pyrola chlorantha</i> Sw.	Greenish-flowered wintergreen	S5	0	1	1	
<i>Quercus macrocarpa</i> Michx.	Bur oak	S5	0	9	9	
<i>Ranunculus aquatilis</i> L. var. <i>diffusus</i>	White water crowfoot	S5	0	3	11	
<i>Ranunculus lapponicus</i> L.	Lapland buttercup	S5	0	1	1	
<i>Ranunculus pensylvanicus</i> L.	Bristly crowfoot	S5	0	1	1	
<i>Ranunculus sceleratus</i> L.	Cursed crowfoot	S5	0	0	4	
<i>Rhamnus alnifolia</i> L'Her.	Alder-leaved buckthorn	S5	0	2	2	
<i>Rhododendron groenlandicum</i> (Oeder) Kron & Judd	Labrador-tea	S5	0	3	3	
<i>Rhus glabra</i> L.	Smooth sumac	S4	0	1	1	
<i>Ribes hudsonianum</i> Richards.	Northern black currant	S5	0	3	3	
<i>Ribes lacustre</i> (Pers.) Poir.	Bristly black currant	S4	0	1	1	
<i>Ribes triste</i> Pall.	Red currant	S5	0	8	8	
<i>Rosa acicularis</i> Lindl.	Prickly rose	S5	0	6	6	
<i>Rubus arcticus</i> L.	Stemless raspberry	S5	0	1	1	
<i>Rubus idaeus</i> L.	Red raspberry	S5	0	4	4	
<i>Rubus pubescens</i> Raf.	Dewberry	S5	0	10	10	
<i>Rumex britannica</i> L.	Great water dock	S4	0	2	13	
<i>Sagittaria cuneata</i> Sheldon	Arum-leaved arrowhead	S5	0	5	27	
<i>Sagittaria latifolia</i> Willd.	Broad-leaved arrowhead	S4S5	0	1	6	
<i>Sagittaria rigida</i> Pursh	Sessile-fruited arrowhead	S2	0	4	37	
<i>Salix bebbiana</i> Sarg.	Bebb's willow	S5	0	4	12	
<i>Salix glauca</i> L.	Grey-leaved willow	S4?	0	0	1	
<i>Salix pedicellaris</i> Pursh	Bog willow	S5	0	0	1	
<i>Salix petiolaris</i> Sm.	Basket willow	S4	0	6	15	
<i>Sanicula marilandica</i> L.	Snakeroot	S5	0	2	2	

Scientific Name	Common Name	MBCDC S-Rank	Number in HLSA**	Number in PSA**	Number in RSA**	Other ***
<i>Schizachne purpurascens</i> (Torr.) Swallen	Purple oat grass	S5	0	2	2	
<i>Schoenoplectus tabernaemontani</i> K. C. Gmel.	Viscid great-bulrush	S5	0	0	2	
<i>Scirpus microcarpus</i> J. & K. Presl	Small-fruited bulrush	S5	0	2	5	
<i>Scutellaria galericulata</i> L.	Common skullcap	S5	0	13	24	
<i>Selaginella densa</i> Rydb.	Prairie spike-moss	S4	0	2	2	
<i>Sibbaldiopsis tridentata</i> (Ait.) Rydb.	Three-toothed cinquefoil	S5	0	3	3	
<i>Sium suave</i> Walt.	Water-parsnip	S5	0	2	10	
<i>Solidago canadensis</i> L.	Canada goldenrod	S5	0	1	1	
<i>Solidago hispida</i> Muhl.	Hairy goldenrod	S5	0	2	2	
<i>Solidago uliginosa</i> Nutt.	Bog goldenrod	S3	0	2	2	
<i>Sonchus arvensis</i> L.	Perennial sow thistle	SNA	0	50	52	P3
<i>Sparganium angustifolium</i> Michx.	Narrow-leaved bur-reed	S5	0	3	21	
<i>Sparganium eurycarpum</i> Engelm. Ex Gray	Broad-fruited bur-reed	S5	0	1	27	
<i>Spiraea alba</i> Du Roi	Meadowsweet	S5	0	8	13	
<i>Spiranthes lacera</i> (Raf.) Raf.	Northern slender ladies'-tresses	S3S4	0	2	2	
<i>Spirodela polyrrhiza</i> (L.) Schleid.	Water-flaxseed	S4?	0	3	19	
<i>Stachys palustris</i> L.	Marsh hedge-nettle	S5	0	4	7	
<i>Stellaria borealis</i> Bigelow	Boreal starwort	SU	0	1	1	
<i>Streptopus lanceolatus</i> (Ait) Reveal	Rose mandarin	S4	0	4	4	
<i>Stuckenia pectinata</i> (L.) Boerner	Sago pondweed	S5	0	2	13	
<i>Symphoricarpos albus</i> (L.) Blake	Snowberry	S5	0	5	5	
<i>Symphyotrichum ciliolatum</i> (Lindl.) A. & D. Love	Lindley's aster	S5	0	5	5	

Scientific Name	Common Name	MBCDC S-Rank	Number in HLSA**	Number in PSA**	Number in RSA**	Other ***
<i>Symphotrichum lanceolatum</i> (Willd.) G. L. Nesom var. <i>hesperium</i> (A. Gray) G. L. Nesom	Willow aster	S4	0	1	1	
<i>Symphotrichum pumiceum</i> (L.) A. & D. Love var. <i>pumiceum</i>	Purple-stemmed aster	S5	0	3	3	
<i>Taraxacum officinale</i> Weber.	Common dandelion	S5	0	29	35	I/NW
<i>Thalictrum venulosum</i> Trel.	Veiny meadow-rue	S5	0	1	1	
<i>Triadenum fraseri</i> (Spach) Gleason	Marsh St. John's-wort	S3?	0	3	14	
<i>Trientalis borealis</i> Raf.	Northern tarflower	S5	0	6	6	
<i>Trifolium hybridum</i> L.	Alsike clover	SNA	0	99	113	I
<i>Trifolium pratense</i> L.	Red clover	SNA	4	81	114	I
<i>Trifolium repens</i> L.	White clover	SNA	0	2	2	I
<i>Typha angustifolia</i> L.	Narrow-leaved cat-tail	S4	0	2	4	
<i>Typha latifolia</i> L.	Common cat-tail	S5	0	2	15	
<i>Ulmus americana</i> L.	American elm	S4	0	4	4	
<i>Urtica dioica</i> L.	Stinging nettle	S5	0	1	1	
<i>Utricularia intermedia</i> Hayne	Flat-leaved bladderwort	S5	0	0	3	
<i>Utricularia macrorhiza</i> Le Conte	Common bladderwort	S5	0	2	3	
<i>Vaccinium angustifolium</i> Ait.	Low sweet blueberry	S4	0	5	5	
<i>Vaccinium caespitosum</i> Michx.	Dwarf bilberry	S2	0	1	1	
<i>Vaccinium myrtilloides</i> Michx.	Velvet-leaf blueberry	S5	0	3	3	
<i>Vaccinium oxycoccus</i> L.	Small bog cranberry	S5	0	1	1	
<i>Vaccinium vitis-idaea</i> L.	Rock cranberry	S5	0	1	1	
<i>Vallisneria americana</i> Michx.	Water-celery	S4?	0	1	8	
<i>Verbascum thapsus</i> L.	Common mullein	SNA	0	6	6	I
<i>Viburnum edule</i> (Michx.) Raf.	Low bush-cranberry	S5	0	1	1	
<i>Viburnum lentago</i> L.	Nannyberry	S4	0	2	2	

Scientific Name	Common Name	MBCDC S-Rank	Number in HLSA**	Number in PSA**	Number in RSA**	Other ***
<i>Viburnum rafinesquianum</i> J. A. Schultes	Downy arrow-wood	S4	0	7	7	
<i>Vicia cracca</i> L.	Tufted vetch	SNA	0	30	30	P2
<i>Viola adunca</i> Sm.	Early blue violet	S5	0	2	2	
<i>Viola canadensis</i> var. <i>rugulosa</i> (Green) C. L. Hitchc.	Canada violet	S5	0	4	4	
<i>Viola renifolia</i> Gray	Kidney-shaped white violet	S5	0	3	3	
<i>Viola selkirkii</i> Pursh ex Goldie	Long-spurred violet	S2	0	6	6	
<i>Woodsia ilvensis</i> (L.) R. Br.	Rusty woodsia	S5	0	1	1	
<i>Zizania palustris</i> L.	Northern wild rice	S4	0	3	6	

* Only includes species recorded during field studies, which were focused on detecting species of conservation concern.

** Includes smaller nested study areas.

*** F1 = Highly invasive, F2= Moderately invasive, F3 = Minor invasive taken from White et al. 1993; P1 = "category 2" (high concern), P2 = "other" (moderate concern) taken from Invasive Species Council of Manitoba 2013; I = other invasive/non-native species, NW = Noxious weed, taken from Government of Manitoba 1988.

Table B-5: List of priority plant species and their reason for inclusion

Scientific Name	Common Name	MBC DC S-Rank*	Reasons for Inclusion						Provincially Very Rare to Uncommon	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**	Habitats	Habitat from Literature***
			SAR A	COSE WIC	ME SA	E	E	E							
<i>Agalinis gattingeri</i>	Gattinger's agalinis	S1	E	E	E	E	E	1	0	0	0	0	0	U,D	dry prairie, open woodland, roadsides
<i>Agalinis tenuifolia</i> var. <i>parviflora</i>	Narrow-leaved gerardia	S2S3						1	0	0	0	0	0		
<i>Alisma gramineum</i>	Narrow-leaved water-plantain	S1						1	0	0	0	0	0		
<i>Antennaria plantaginifolia</i>	Plantain-leaved everlasting	S1S2						1	0	0	0	0	0		
<i>Aralia racemosa</i>	Spikenard	S2						1	0	0	0	0	0		
<i>Arethusa bulbosa</i>	Arethusa	S2						1	0	0	0	0	0		
<i>Astragalus americanus</i>	American milkvetch	S3						1	0	0	0	0	0		
<i>Botrychium multifidum</i>	Leathery grape-fern	S3						1	0	0	1	1	1	U	prairie clearings
<i>Botrychium oneidense</i>	Blunt-lobed moonwort	S1						1	0	0	0	0	0		
<i>Brasenia schreberi</i>	Water-shield	S2						1	0	0	0	0	0		
<i>Bromus kalmii</i>	Wild chess	S3?						1	0	0	0	0	0		

Scientific Name	Common Name	MBC DC S-Rank*	SAR A	COSE WIC	ME SA	Reasons for Inclusion					Habitats	Habitat from Literature***
						Provincia Ily Very Rare to Uncomm on	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**		
<i>Bromus porteri</i>	Porter's chess	S3?				1	0	0	0	0		
<i>Calamagrostis lapponica</i>	Reed grass	S2?				1	0	0	0	0		
<i>Calopogon tuberosus</i>	Swamp-pink	S2				1	0	0	0	0		
<i>Caltha natans</i>	Floating marsh-marigold	S3				1	0	0	0	0		
<i>Canadanthus modestus</i>	Large northern aster	S2				1	0	0	0	0		
<i>Carex arctata</i>	Black sedge	S1				1	0	0	0	0		
<i>Carex blanda</i>	Pleasant sedge	S1				1	0	0	0	0		
<i>Carex castanea</i>	Chestnut sedge	S3				1	0	0	0	0		
<i>Carex emoryi</i>	Emory's sedge	S2?				1	0	0	0	0		
<i>Carex gracillima</i>	Slender sedge	S3				1	0	0	1	1	W,F,U	wooded swamps, moist woods, roadsides
<i>Carex hystericina</i>	Porcupine sedge	S3?				1	0	0	0	0		
<i>Carex intumescens</i>	Swollen sedge	S3?				1	0	0	6	7	W,F	black ash and alder swamps

Scientific Name	Common Name	MBC DC S-Rank*	Reasons for Inclusion										Habitats	Habitat from Literature***
			SAR A	COSE WIC	ME SA	Provincially Very Rare to Uncommon	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**				
<i>Carex laeviconica</i>	Smooth-fruited sedge	S3?				1	0	0	0	0	0	0		
<i>Carex livida</i>	Livid sedge	S3				1	0	0	0	0	0	0		
<i>Carex merritt-fernaldii</i>	Merritt Fernald's sedge	S1				1	0	0	0	4	4	4	U,D	dry or rocky meadows, roadsides
<i>Carex oligosperma</i>	Few-fruited sedge	S3?				1	0	0	0	0	0	0		
<i>Carex pauciflora</i>	Few-flowered sedge	S3				1	0	0	0	0	0	0		
<i>Carex pedunculata</i>	Stalked sedge	S3?				1	0	0	0	3	3	3	U,F	moist to dry woods
<i>Carex projecta</i>	Necklace sedge	S2?				1	0	0	0	0	0	0		
<i>Carex sterilis</i>	Dioecious sedge	S2				1	0	0	0	0	0	0		
<i>Carex tetanica</i>	Rigid sedge	S2				1	0	0	0	0	0	0		
<i>Carex vulpinoidea</i>	Fox sedge	S3?				1	0	0	0	0	0	0		
<i>Carex xerantica</i>	White-scaled sedge	S3?				1	0	0	0	0	0	0		
<i>Caulophyllum thalictroides</i>	Papoose-root	S2				1	0	0	0	0	0	0		
<i>Ceanothus herbaceus</i>	New Jersey tea	S3				1	0	0	0	0	0	0		

Scientific Name	Common Name	MBC DC S-Rank*	SAR A	COSE WIC	ME SA	Reasons for Inclusion					Habitats	Habitat from Literature***
						Provincia Ily Very Rare to Uncomm on	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**		
<i>Celtis occidentalis</i>	Hackberry	S1			T	1	0	0	0	0	S,U	Streambanks, floodplains, wooded hillsides
<i>Chamaesyce serpyllifolia</i>	Thyme-leaved spurge	S3				1	0	0	0	0		
<i>Chelone glabra</i>	Turtlehead	S2S3				1	0	0	0	0		
<i>Chimaphila umbellata</i> ssp. <i>cisatlantica</i>	Prince's-pine	S3				1	0	0	0	0		
<i>Circaea luteiana</i> ssp. <i>canadensis</i>	Large enchanter's-nightshade	S2				1	0	0	0	0		
<i>Cladium mariscoides</i>	Twig rush	S2				1	0	0	0	0		
<i>Clematis virginiana</i>	Virgin's-bower	S2				1	0	0	0	0		
<i>Collinsia parviflora</i>	Blue-eyed Mary	S1				1	0	0	0	0		
<i>Corispermum americanum</i>	American bugseed	S2S3				1	0	0	0	0		
<i>Cornus alternifolia</i>	Alternate-leaved dogwood	S3				1	0	0	0	0		
<i>Cornus rugosa</i>	Round-leaved	S3				1	0	0	0	0		

Scientific Name	Common Name	MBC DC S-Rank*	Reasons for Inclusion										Habitats	Habitat from Literature***
			SAR A	COSE WIC	ME SA	Provincially Rare to Uncommon	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**				
<i>Cynoglossum virginianum</i> var. <i>boreale</i>	Northern wild comfrey	S3				1	0	0	0	0	0	0		
<i>Cyperus houghtonii</i>	Houghton's umbrella-sedge	S2				1	0	0	0	0	0	0		
<i>Cyperus squarrosus</i>	Awned flatsedge	S2				1	0	0	0	0	0	0		
<i>Cyripedium arietinum</i>	Ram's headlady's-slipper	S2S3				1	0	0	0	0	0	0		
<i>Danthonia intermedia</i>	Timber oat grass	S2?				1	0	0	0	4	4	4	U	grassland, meadows, open woods
<i>Descurainia sophioides</i>	Northern Flixweed	S2				1	0	0	0	3	3	3	D,U	roadsides and waste places
<i>Dichanthelium linearifolium</i>	White-haired panic grass	S2				1	0	0	0	0	0	0		
<i>Dichanthelium perlongum</i>	Long-stalked panic grass	S2?				1	0	0	0	0	0	0		
<i>Dichanthelium wilcoxianum</i>	Sand millet	S2				1	0	0	0	0	0	0		
<i>Diphasiastrum tristachyum</i>	Ground-cedar	S3				1	0	0	0	0	0	0		

Scientific Name	Common Name	MBC DC S-Rank*	SAR A	COSE WIC	ME SA	Reasons for Inclusion						Habitats	Habitat from Literature***
						Provincia Ily Very Rare to Uncomm on	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**			
<i>Drosera anglica</i>	Oblong-leaved sundew	S3				1	0	0	0	0			
<i>Drosera linearis</i>	Slender-leaved sundew	S2				1	0	0	0	0			
<i>Dulichium arundinaceum</i>	Three-way sedge	S2				1	0	0	1	1	W,S	marsh, ponds, fens, riverbanks	
<i>Eleocharis obtusa</i>	Blunt spike-rush	S1				1	0	0	0	0			
<i>Eriocaulon aquaticum</i>	White-buttons	S1				1	0	0	0	0			
<i>Eurybia macrophylla</i>	White wood aster	S1				1	0	0	9	9	F,U	moist to dry forests	
<i>Fraxinus nigra</i>	Black ash	S3				1	5	10	24	24	W,U,F	bogs, swamps, shore zones in woodlands	
<i>Gentiana rubricaulis</i>	Closed gentian	S2S3				1	0	0	0	0			
<i>Glyceria canadensis</i>	Rattlesnake grass	S1				1	0	0	4	4	A,S	shallow water, shores, fens	
<i>Goodyera tessellata</i>	Tesselated rattlesnake plantain	S2				1	0	0	0	0			
<i>Helianthemum bicknellii</i>	Frostweed	S3?				1	0	0	0	0			

Scientific Name	Common Name	MBC DC S-Rank*	Reasons for Inclusion										Habitats	Habitat from Literature***
			SAR A	COSE WIC	ME SA	Provincially Very Rare to Uncommon	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**				
<i>Helianthus nuttallii</i> <i>ssp. rydbergii</i>	Tuberous-rooted sunflower	S2				1	0	0	0	0	0	0		
<i>Heteranthera dubia</i>	Water star-grass	S2				1	0	0	0	0	0	0		
<i>Hieracium canadense</i>	Canada hawkweed	S2?				1	0	0	0	0	0	0		
<i>Hudsonia tomentosa</i>	False heather	S3				1	0	0	0	0	0	0		
<i>Huperzia lucidula</i>	Shining club-moss	S1				1	0	0	0	0	0	0		
<i>Huperzia selago</i>	Mountain club-moss	S2S3				1	0	0	0	0	0	0		
<i>Juncus brevicaudatus</i>	Short-tail rush	S3?				1	0	0	0	0	0	0		
<i>Juncus canadensis</i>	Canada rush	S1?				1	0	0	0	0	0	0		
<i>Juncus interior</i>	Inland rush	S1				1	0	0	0	0	0	0		
<i>Juncus stygius</i> <i>ssp. americanus</i>	Moor rush	S1?				1	0	0	0	0	0	0		
<i>Leersia oryzoides</i>	Rice cutgrass	S3?				1	0	0	0	0	0	0		
<i>Leptogium rivulare</i>	Flooded jellyskin lichen	S1	T	T		1	0	0	0	0	0	0	W,F	Tree trunks at the margin of seasonal pools

Scientific Name	Common Name	MBC DC S-Rank*	SAR A	COSE WIC	ME SA	Reasons for Inclusion		Number in PFA**	Number in HLSA**	Number in PSA**	Number in RSA**	Habitats	Habitat from Literature***
						Provincially Very Rare to Uncommon	Number in PFA**						
<i>Leucophysalis grandiflora</i>	Large white-flowered ground-cherry	S3				1	0	0	0	0	0		
<i>Lithospermum incisum</i>	Narrow-leaved puccoon	S3				1	0	0	0	0	0		
<i>Lobelia dortmanna</i>	Water lobelia	S2				1	0	0	0	0	0		
<i>Lycopodiella inundata</i>	Bog club-moss	S1				1	0	0	0	0	0		
<i>Lycopodium clavatum</i>	Running pine	S3				1	0	0	0	0	0		
<i>Lycopodium clavatum</i> var. <i>clavatum</i>	Running pine	S2				1	0	0	0	0	0		
<i>Lysimachia terrestris</i>	Yellow loosesrife	S3				1	0	0	2	5		W,S	fens, shores
<i>Malaxis monophyllos</i>	White adder's-mouth	S2?				1	0	0	0	0			
<i>Malaxis paludosa</i>	Bog adder's-mouth	S1				1	0	0	0	0			
<i>Malaxis unifolia</i>	Green adder's-mouth	S2?				1	0	0	0	0			

Scientific Name	Common Name	MBC DC S-Rank*	Reasons for Inclusion										Habitats	Habitat from Literature***	
			SAR A	COSE WIC	ME SA	Provincially Rare to Uncommon	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**	Number in HLSA**	Number in PSA**			
<i>Megalodonta beckii</i>	Water-marigold	S3				1	0	0	3	3	0	3	3	A	ponds, streams
<i>Mirabilis albida</i>	Hairy umbrellawort	S3				1	0	0	0	0	0	0	0		
<i>Myriophyllum alterniflorum</i>	Water-milfoil	S2?				1	0	0	0	0	0	0	0		
<i>Myriophyllum farwellii</i>	Farwell's water-milfoil	S1				1	0	0	0	0	0	0	0		
<i>Nymphaea odorata</i>	Fragrant water-lily	S2				1	0	0	0	0	0	6	6	A	lakes, ponds, rivers, marshes
<i>Nymphaea odorata</i> ssp. <i>odorata</i>	Fragrant water-lily	S2				1	0	0	0	0	0	0	0		
<i>Nymphaea odorata</i> ssp. <i>tuberosa</i>	Tuberosus white water-lily	S1				1	0	0	0	0	0	0	0		
<i>Nymphaea tetragona</i>	Small water-lily	S2				1	0	0	0	0	0	0	0		
<i>Oenothera parviflora</i>	Evening-primrose	S3				1	0	0	0	0	0	0	0		
<i>Oenothera perennis</i>	Sundrops	S1S2				1	0	0	0	0	0	0	0		
<i>Osmorhiza claytonii</i>	Woolly Sweet Cicely	S2				1	1	2	3	3	3	3	3	F,U	moist woods and clearings
<i>Osmunda claytoniana</i>	Interrupted fern	S3				1	0	0	0	0	0	1	1	F,U	moist woods

Scientific Name	Common Name	MBC DC S-Rank*	SAR A	COSE WIC	ME SA	Reasons for Inclusion		Habitats	Habitat from Literature***			
						Provincially Very Rare to Uncommon	Number in PFA**			Number in HLSA**	Number in PSA***	Number in RSA***
<i>Ostrya virginiana</i>	Hop-hornbeam	S2				1	0	0	20	20	U,F	moist woods, slopes
<i>Pellaea glabella</i> ssp. <i>glabella</i>	Smooth cliffbrake	S1?				1	0	0	0	0		
<i>Persicaria sagittata</i>	Arrow-leaved tear-thumb	S3				1	0	0	3	4	W	marshes, wet meadows
<i>Pinus resinosa</i>	Red pine	S2S3				1	0	0	0	0		
<i>Platanthera hookeri</i>	Hooker's orchid	S2				1	0	0	0	0		
<i>Platanthera lacera</i>	Fringed orchid	S2				1	0	0	0	0		
<i>Platanthera orbiculata</i>	Round-leaved bog orchid	S3				1	0	0	0	0		
<i>Platanthera pycodes</i>	Small purple-fringed orchid	S1				1	0	0	0	0		
<i>Pogonia ophioglossoides</i>	Rose pogonia	S1				1	0	0	0	0		
<i>Polygonatum biflorum</i>	Hairy solomon's-seal	S3?				1	0	0	0	0		
<i>Populus grandidentata</i>	Large-toothed aspen	S1S2				1	0	0	0	0		

Scientific Name	Common Name	MBC DC S-Rank*	Reasons for Inclusion										Habitats	Habitat from Literature***
			SAR A	COSE WIC	ME SA	Provincially Very Rare to Uncommon	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**				
<i>Potamogeton amplifolius</i>	Large-leaved pondweed	S2?				1	0	0	1	3	A	deep lakes, large rivers		
<i>Potamogeton obtusifolius</i>	Blunt-leaved pondweed	S3?				1	0	0	0	0				
<i>Potamogeton pusillus</i> ssp. <i>tenuissimus</i>	Small Pondweed	S2				1	0	0	0	2	A	shallow lakes, ponds		
<i>Potamogeton robbinsii</i>	Robbin's pondweed	S2				1	0	0	2	16	A	lakes, ponds, rivers		
<i>Potamogeton spirillus</i>	Fennel-leaved pondweed	S2				1	0	0	0	2	A	marshes, lakes, ponds, streams		
<i>Pyrola americana</i>	Round-leaved pyrola	S2				1	0	0	0	0				
<i>Rhynchospora alba</i>	White beakrush	S3?				1	0	0	0	0				
<i>Rhynchospora capillacea</i>	Horned beakrush	S2				1	0	0	0	0				
<i>Ruppia cirrhosa</i>	Widgeon-grass	S3				1	0	0	0	0				
<i>Sagittaria rigida</i>	Sessile-fruited arrowhead	S2				1	0	0	4	37	A,S	calcareous or brackish shallow water and shores		
<i>Saxifraga pennsylvanica</i>	Swamp saxifrage	S1				1	0	0	0	0				

Scientific Name	Common Name	MBC DC S-Rank*	SAR A	COSE WIC	ME SA	Reasons for Inclusion							Habitats	Habitat from Literature***	
						Provincia Ily Very Rare to Uncomm on	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**					
<i>Saxifraga virginensis</i>	Early saxifrage	S3					1	0	0	0	0				
<i>Scutellaria parvula</i> var. <i>missouriensis</i>	Small skullcap	S1					1	0	0	0	0				
<i>Selaginella densa</i>	Prairie spike-moss	S3					1	0	0	0	0				
<i>Solidago juncea</i>	Sharp-toothed goldenrod	S2					1	0	0	0	0				
<i>Solidago uliginosa</i>	Bog goldenrod	S3					1	0	0	2	2		W	fens, swamps, wet depressions	
<i>Sparganium emersum</i>	stemless bur-reed	S3?					1	0	0	0	0				
<i>Streptopus amplexifolius</i>	White mandarin	S3?					1	0	0	0	0				
<i>Streptopus lanceolatus</i> var. <i>longipes</i>	Rose mandarin	S3?					1	0	0	0	0				
<i>Symphyotrichum sericeum</i>	Western silvery aster	S2	T	T	T		1	0	0	0	0		U	Open, dry sandy substrate, open woods	
<i>Taxus canadensis</i>	Canada yew	S3					1	0	0	0	0				
<i>Torreyochloa pallida</i> var. <i>fernaldii</i>	Pale manna grass	S2					1	0	0	0	0				

Scientific Name	Common Name	MBC DC S-Rank*	Reasons for Inclusion										Habitat from Literature***
			SAR A	COSE WIC	ME SA	Provincially Very Rare to Uncommon	Number in PF**	Number in HLSA**	Number in PSA**	Number in RSA**	Habitats		
<i>Triadenum fraseri</i>	Marsh St. John's-wort	S3?				1	0	0	3	14	W,S	peaty shores, floating fens	
<i>Utricularia minor</i>	Lesser bladderwort	S3				1	0	0	0	0			
<i>Vaccinium caespitosum</i>	Dwarf bilberry	S3				1	0	0	1	1	U,F	woods, open slopes	
<i>Viola conspersa</i>	Dog violet	S3?				1	0	0	0	0			
<i>Viola selkirkii</i>	Long-spurred violet	S2				1	0	0	6	6	U,F	moist woods	

* MBCDC S-Ranks: The term "species of conservation concern" includes species that are rare, disjunct, or at risk throughout their range or in Manitoba and in need of further research. The term also encompasses species that are listed under the Manitoba Endangered Species Act (MESA), or that have a special designation by the Committee On the Status of Endangered Wildlife In Canada (COSEWIC) (MBCDC website 2010). S1 - Very rare throughout its range or in the Province (5 or fewer occurrences, or very few remaining individuals). May be especially vulnerable to extirpation; S2 - Rare throughout its range or in the Province (6 to 20 occurrences). May be vulnerable to extirpation. S3 - Uncommon throughout its range or in the Province (21 to 100 occurrences). S4 - Widespread, abundant, and apparently secure throughout its range or in the Province, with many occurrences, but the element is of long-term concern (> 100 occurrences). S5 - Demonstrably widespread, abundant, and secure throughout its range or in the Province, and essentially impossible to eradicate under present conditions.

**Cumulative number of sample locations the species was found at during field studies. Species with zero values for the Regional Study Area were identified as having the potential to occur there.

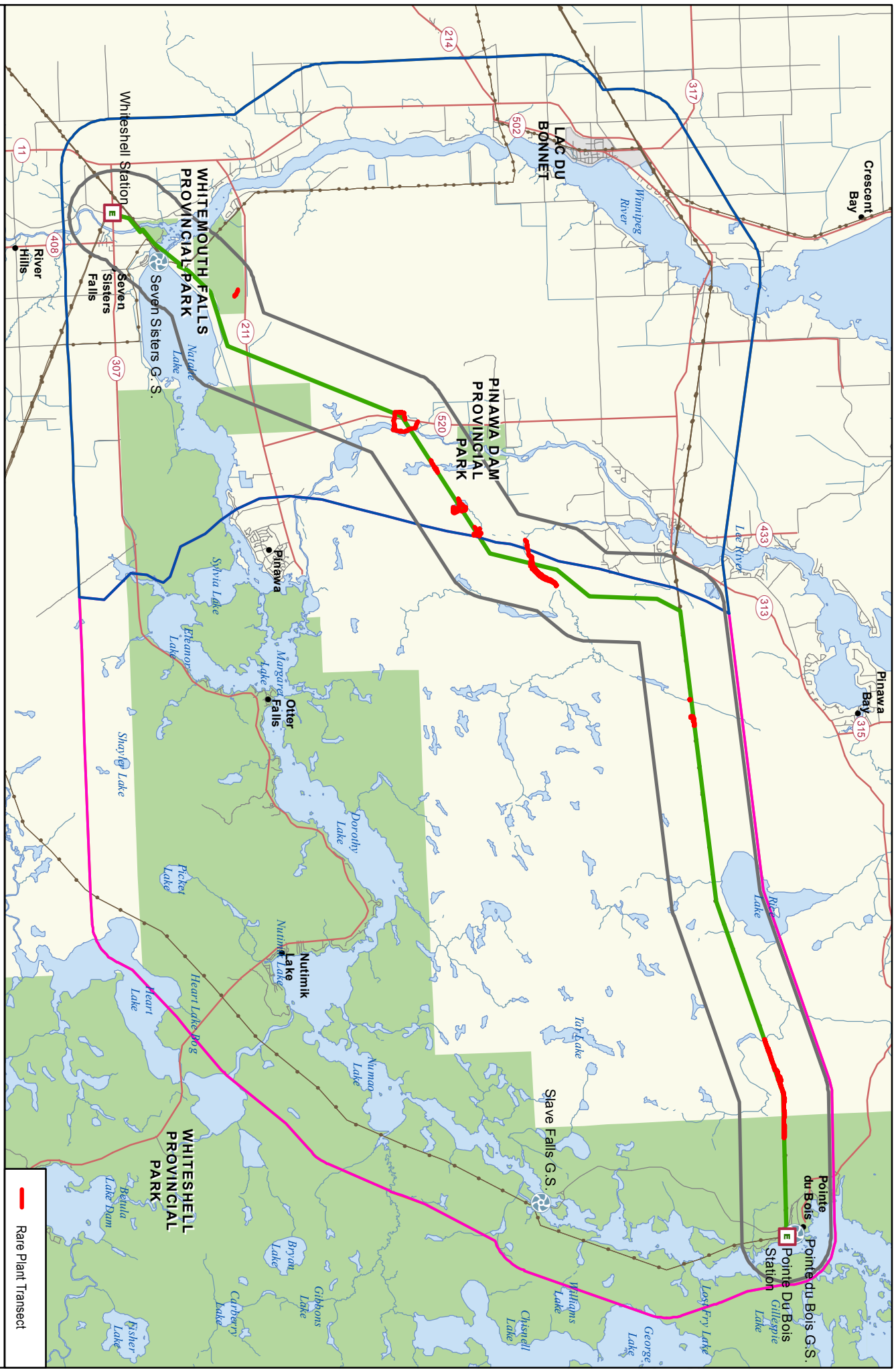
***Sources: Scoggan 1978, FNA 1993, Newmaster et al. 1997, Reaume 2009

Coordinate System: UTM Zone 14 NAD 83
 Data Source: MBHydro, MMM, ECOSTEM Ltd, ProvMB, NRCan
 Date Created: January 13, 2014

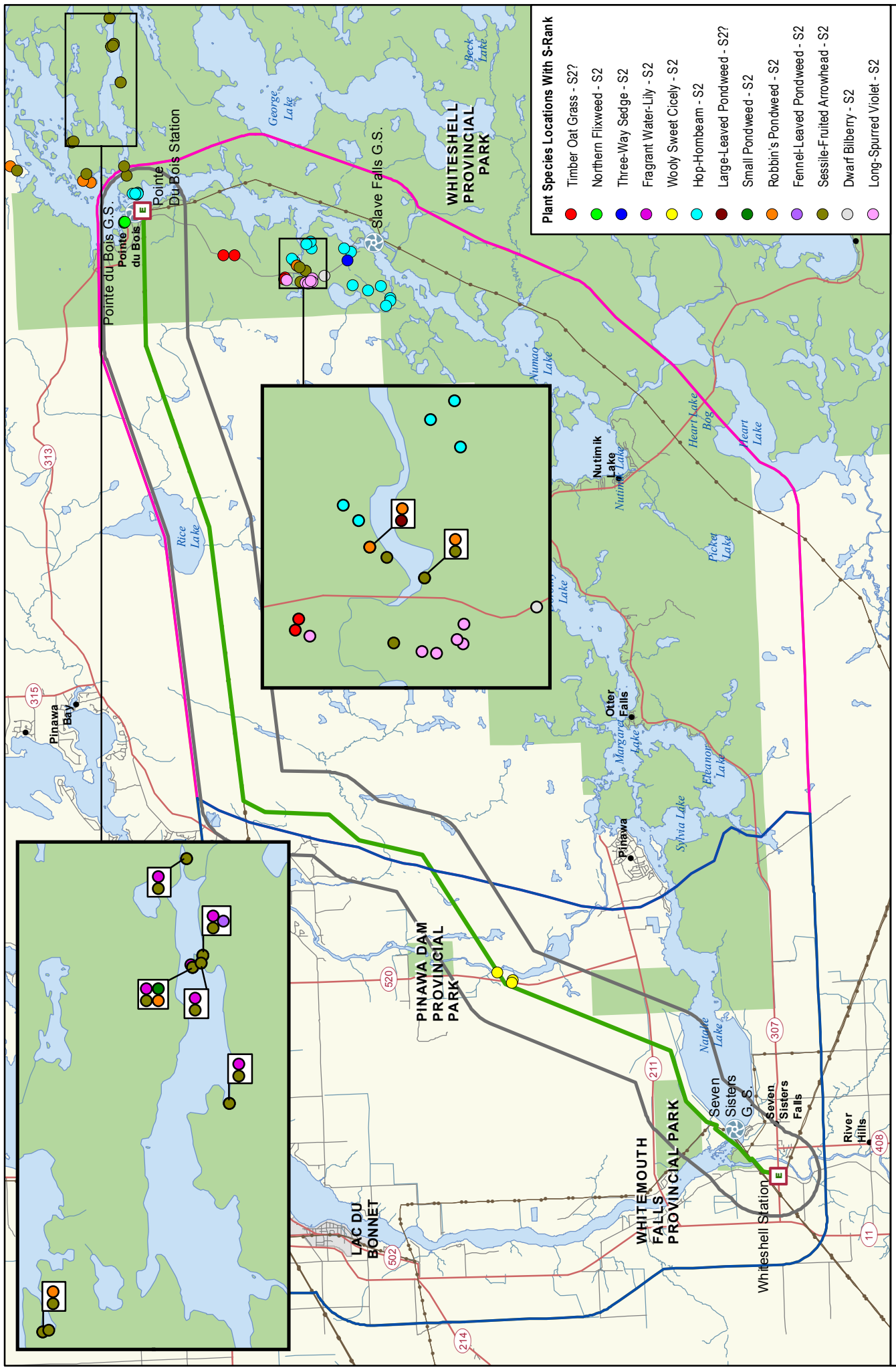


- Final Preferred Route
- Transmission Line
- Provincial Road/Highway
- Provincial Park
- Generating Station
- City / Town
- Inhabited Local Study Area
- East
- West
- Transmission Station
- Community

Pointe du Bois Transmission Project
Rare Plant Survey Transect Locations
 Map B-1



— Rare Plant Transect



- Plant Species Locations With S-Rank**
- Timber Oat Grass - S2?
 - Northern Flixweed - S2
 - Three-Way Sedge - S2
 - Fragrant Water-Lily - S2
 - Woolly Sweet Cicely - S2
 - Hop-Hornbeam - S2
 - Large-Leaved Pondweed - S2?
 - Small Pondweed - S2
 - Robbin's Pondweed - S2
 - Fennel-Leaved Pondweed - S2
 - Sessile-Fruited Arrowhead - S2
 - Dwarf Bilberry - S2
 - Long-Spurred Violet - S2

Pointe du Bois Transmission Project
Provincially Rare Plant Species Locations

Map B-2

Coordinate System: UTM Zone 14 NAD 83
 Data Source: MBHydro, MMM, ECO STEM Ltd., ProvMB, NR Can
 Date Created: January 13, 2014

0 1 2 3 4 Kilometres
 0 0.5 1 1.5 2 Mile

Final Preferred Route
 Generating Station
 Transmission Station
 Community
 Provincial Park
 Project Area Subdivisions
 City / Town
 Intactness Local
 Study Area

Provincial Park
 Project Area Subdivisions
 East
 West