# **APPENDIX**

A SPECIES LIST

COMMON NAME	SCIENTIFIC NAME	CC <sup>1</sup>	CW <sup>1</sup>	G_RANK <sup>3</sup>	n_rank	S_RANK⁴	COSEWIC <sup>5</sup>	SARA <sup>6</sup>	SARO <sup>7</sup>	CITY OF TORONTO (Varga et al. 2000) <sup>8</sup>	ECODISTRICT 7E4 (GTA) (Oldham 2017) <sup>8</sup>	TRCA (2018) <sup>8</sup>	YORK REGION (Varga et al. 2000) <sup>8</sup>	GREATER TORONTO AREA (Varga et al. 2000) <sup>8</sup>	NATIVE STATUS <sup>9</sup>	AUTHOR	ORDER	FAMILY
Freeman's Maple	Acer x freemanii	6	-5	GNA	NNA	SNA				X	hyb	L4	XSR	Х	N	E. Murr.	Sapindales	Sapindaceae
Manitoba Maple	Acer negundo	0	0	G5	N5	S5				X	IC	L+?	Х	X	N	L.	Sapindales	Sapindaceae
Norway Maple	Acer platanoides		5	GNR	NNA	SNA				X	IC	L+	Х	X	I	L.	Sapindales	Sapindaceae
Red Maple	Acer rubrum	4	0	G5	N5	S5				X	С	L4	Х	X	N	L.	Sapindales	Sapindaceae
Sugar Maple	Acer saccharum	4	3	G5	N5	S5				X	C	L4	X	X	N	Marsh.	Sapindales	Sapindaceae
Silver Maple	Acer saccharinum	5	-3	G5	N5	S5				X	X 10	L4	X	X	N	L.	Sapindales	Sapindaceae
	Alliaria petiolata		0	GNR	NNA	SNA				X	IC IC	L+	X	X		(Bieb.) Cavar.a & Grande	Capparales	Brassicaceae
Common Burdock	Arctium minus		3	GNR	NNA	SNA				X	IC IC	L+	X	X	I	Bernh.	Asterales	Asteraceae
Canada Thistle Bull Thistle	Circium arvense		3	G5 GNR	NNA NNA	SNA SNA				X	IC IC	L+ L+	X	X	- !	(L.) Scop.	Asterales	Asteraceae
	Cirsium vulgare Crataegus sp.		<u>ა</u>	GINH	ININA	SINA				^	10	L+	^	^	· '	(Savi) Ten.	Asterales Rosales	Asteraceae Rosaceae
Wild Carrot	Daucus carota		5	GNR	NNA	SNA				Х	IC	L+	Х	Х	1	L. 	Apiales	Apiaceae
Woodland Strawberry	Fragaria vesca	4	3	G5	N5	S5					10	LT		Α	N	L.	Rosales	Rosaceae
Green Ash	Fraxinus pennsylvanica	3	-3	G5	N5	S4				Х	С	L5	Х	Y	N	Marsh.	Scrophulariales	Oleaceae
Wood Avens	Geum urbanum		5	G5	NNA	SNA				X	IX	L+	X	X	1	I	Rosales	Rosaceae
Ground-ivy	Glechoma hederacea		3	GNR	NNA	SNA				X	IC	L+	X	X	i	L.	Lamiales	Lamiaceae
Virginia Stickseed	Hackelia virginiana	5	3	G5	N5	S5				XU	U	L5	R5	X?	N	(L.) I.M. Johnston	Lamiales	Boraginaceae
Dame's Rocket	Hesperis matronalis	·	3	G4G5	NNA	SNA				X	IC	L+	X	X	I	L.	Capparales	Brassicaceae
Hawkweed sp.	Hieracium sp.															L.	Asterales	Asteraceae
Common St. John's-wort	Hypericum perforatum		5	GNR	NNA	SNA				Х	IC	L+	Х	Х		L.	Theales	Hypericaceae
Black Walnut	Juglans nigra	5	3	G5	N4	S4?				X	С	L5	R	Х	N	L.	Juglandales	Juglandaceae
Common Nipplewort	Lapsana communis		3	GNR	NNA	SNA				X	IU	L+	Χ	X		L.	Asterales	Asteraceae
Tamarack	Larix laricina	7	-3	G5	N5	S5				R3	R	L3	Х	Х	N	(Du Roi) K. Koch	Pinales	Pinaceae
Honeysuckle sp.	Lonicera sp.															L.	Dipsacales	Caprifoliaceae
Garden Bird's-foot Trefoil	Lotus corniculatus		3	GNR	NNA	SNA				X	IC	L+	X	X		L.	Fabales	Fabaceae
American Water-horehound	Lycopus americanus	4	-5	G5	N5	S5				Х	С	L4	Х	Х	N	Muhl. ex W. Bart.	Lamiales	Lamiaceae
<u> </u>	Maianthemum racemos	4	3	G5	N5	S5				X	С	L5	Х	X	N	(L.) Link	Liliales	Asparagaceae
	Malus sp.			2115									,,			Mill.	Rosales	Rosaceae
	Malva neglecta		5	GNR	NNA	SNA				X	IR IO	L+	X	X		Wallr.	Malvales	Malvaceae
White Mulberry	Morus alba		0	GNR	NNA	SNA				X	IC O	L+	XSR	X		L.	Urticales	Moraceae
European Wood-sorrel	Oxalis stricta	•	3	G5	N5	S5				X	<u>C</u>	L5	X	X	l N	L.	Geraniales	Oxalidaceae
	Parthenocissus quinqu	6	3	G5 G5	N4N5 N5	S4? S5				R X	R C	L5 L5	R	X	N N	(L.) Planch. ex DC. (Knerr) A.S. Hitchc.	Rhamnales	Vitaceae
Thicket Creeper Spotted Lady's-thumb	Parthenocissus vitacea Persicaria maculosa	4	-3	G3G5	NNA	SNA				^ V	IC	L+	X	X	IN	Grav	Rhamnales Polygonales	Vitaceae Polygonaceae
	Phalaris arundinacea v	0	-3 -3	G5TNR	NNR	S5			-	X	C	L+?	X	X	N	li	Cyperales	Poaceae
	Phragmites australis	0	-3	G5	N5	S4?				X	IC.	L+:	X	X	N	(Cavan.) Trinius ex. Steudel	Cyperales	Poaceae
	Picea abies		5	G5	NNA	SNA				X	IX	L+	X	X	1	(L.) Karst.	Pinales	Pinaceae
	Picea glauca	6	3	G5	N5	S5				X+	U	L3	X	X	N	(Moench) Voss	Pinales	Pinaceae
	Picea pungens		3	G5	NNA	SNA				711		L+	,		i	Engelm.	Pinales	Pinaceae
	Pinus strobus	4	3	G5	N5	S5			<u> </u>	Х	С	L4	Х	Х	N	L.	Pinales	Pinaceae
	Pinus sylvestris		3	GNR	NNA	SNA				Х	IC	L+	Х	Х	I	L.	Pinales	Pinaceae
Canada Poplar	Populus x canadensis		0	GNA	NNR	SNA				X	hyb	L+		Х		Moench (pro sp.)	Salicales	Salicaceae
Trembling Aspen	Populus tremuloides	2	0	G5	N5	S5				X	С	L5	Χ	Х	N	Michx.	Salicales	Salicaceae
•	Prunus serotina	3	3	G5	N5	S5				X	С	L5	Х	Х	N	Ehrh.	Rosales	Rosaceae
	Ranunculus acris		0	G5	NNA	SNA				X	IC	L+	Х	Х	I	L.	Ranunculales	Ranunculaceae
<u> </u>	Rhamnus cathartica		0	GNR	NNA	SNA				X	IC	L+	Х	Х	I	L.	Rhamnales	Rhamnaceae
	Rhus typhina	1	3	G5	N5	S5				Х	С	L5	Х	Х	N	L.	Sapindales	Anacardiaceae
	Ribes cynosbati	4	3	G5	N5	S5				X	C	L5	X	X	N	L.	Rosales	Grossulariaceae
	Robinia pseudoacacia		3	G5	NNA	SNA				X	IC	L+	X	X	<u> </u>	L.	Fabales	Fabaceae
<u> </u>	Rubus occidentalis	2	5	G5	N5	S5				X	C	L5	X	X	N	L.	Rosales	Rosaceae
	Salix alba		-3	G5	NNA	SNA				X	IC .	L+	X	X	<u> </u>	L.	Salicales	Salicaceae
	Salix eriocephala	4	-3	G5	N5	S5				X	C	L5	X	X	N	Michx.	Salicales	Salicaceae
Golden Weeping Willow	Salix x sepulcralis		0 5	GNA GNR	NNA NNA	SNA SNA				X	hyb IC	L+	X	X		Simonkai (L.) Lassen	Salicales Fabales	Salicaceae Fabaceae
	Securigera varia											l L+						

Appendix B: Vascular Plants Species List

COMMON NAME	SCIENTIFIC NAME	CC <sup>1</sup>	CW <sup>1</sup>	G_RANK³	n_rank	S_RANK⁴	COSEWIC⁵	SARA <sup>6</sup>	SARO <sup>7</sup>	CITY OF TORONTO (Varga et al. 2000) <sup>8</sup>	ECODISTRICT 7E4 (GTA) (Oldham 2017) <sup>8</sup>	TRCA (2018) <sup>8</sup>	YORK REGION (Varga et al. 2000) <sup>8</sup>	GREATER TORONTO AREA (Varga et al. 2000) <sup>8</sup>	NATIVE STATUS <sup>9</sup>	AUTHOR	ORDER	FAMILY
Heart-leaved Aster	Symphyotrichum cordif	5	5	G5	N5	S5				X	С	L5	Х	X	N	(L.) Nesom	Asterales	Asteraceae
Panicled Aster	Symphyotrichum lance	3	-3	G5	N5	S5									N	(Willdenow) Nesom	Asterales	Asteraceae
Common Dandelion	Taraxacum officinale		3	G5	N5	SNA				X	IC	L+	Х	Χ	I	G.H. Weber ex Wiggers	Asterales	Asteraceae
Eastern White Cedar	Thuja occidentalis	4	-3	G5	N5	S5				X	С	L4	Х	Χ	N	L.	Pinales	Cupressaceae
Coltsfoot	Tussilago farfara		3	GNR	NNA	SNA				X	IC	L+	Х	X	I	L.	Asterales	Asteraceae
Broad-leaved Cattail	Typha latifolia	1	-5	G5	N5	S5				X	С	L4	Х	Х	N	L.	Typhales	Typhaceae
Elm sp.	Ulmus sp.						·									L.	Urticales	Ulmaceae
Stinging Nettle	Urtica dioica	2	0	G5	N5	S5					IR				N	L.	Urticales	Urticaceae
Riverbank Grape	Vitis riparia	0	0	G5	N5	S5				X	С	L5	Х	Χ	N	Michx.	Rhamnales	Vitaceae

#### PLANT LIST LEGEND

#### Scientific Name, Common Name and Family

Based on Vascan (Dec. 2017) and NHIC (Dec. 16 2018)

Vascan: http://data.canadensys.net/vascan/search

NHIC: http://www.sse.gov.on.ca/sites/MNR-PublicDocs/EN/ProvincialServices/Ontario Vascular Plants.xlsx

#### <sup>1</sup> Coefficient of Conservatism, Coefficient of Wetness, Weediness, and Physiology/Habit

Oldham, M. J., W. D. Bakowsky and D. A. Sutherland. 1995. Floristic Quality Assessment System for Southern Ontario. Natural Heritage Information Centre, Ministry of Natural Resources. Peterborough, Ontario.

NHIC: http://www.sse.gov.on.ca/sites/MNR-PublicDocs/EN/ProvincialServices/Ontario Vascular Plants.xlsx

CC and CW values reflect updates by NHIC, current as of Dec. 16, 2018).

CC: Coefficient of Conservatism. Rank of 0 to 10 based on plants degree of fidelity to a range of synecological parameters: (0-3) Taxa

found in a variety of plant communities; (4-6) Taxa typically associated with a specific plant community but tolerate moderate

disturbance; (7-8) Taxa associated with a plant community in an advanced successional stage that has undergone minor disturbance; (9-

10) Taxa with a high fidelity to a narrow range of synecological parameters.

CW: Coefficient of Wetness, Value between 5 and -5. A value of -5 is assigned to Obligate Wetland (OBL) and 5 to Obligate Upland

(UPL), with intermediate values assigned to the remaining categories.

Weediness: Weediness Score, assigned to all non-native species and range from -1

(low impact of the species on natural areas) to -3 (high impact of the species on natural

areas).

Habit: Physiology/Habit. The growth form of the species (e.g. forb, shrub, tree).

#### <sup>2</sup> OWES Wetland Plant List

Ontario Ministry of Natural Resources. 2013. Ontario Wetland Evaluation System Southern Manual. 3rd Edition, Version 3.3 Ontario Ministry of Natural Resources. 2013. Ontario Wetland Evaluation System Northern Manual. 1st Edition, Version 1.3 Species presence or absence on the Ontario Wetland Evaluation System (OWES) Wetland Plant List.

Codes are defined as follows:

X: Present on the list

#### <sup>3</sup> G-Rank (Global)

Global Status from Nature Serve (via NHIC, Dec. 16, 2018)

NS: http://explorer.natureserve.org/

NHIC: http://www.sse.gov.on.ca/sites/MNR-PublicDocs/EN/ProvincialServices/Ontario\_Vascular\_Plants.xlsx

Global ranks are assigned by a consensus of the network of Conservation Data Centres (CDCs), scientific experts, and the Nature Conservancy to designate a rarity rank based on the range-wide status of a species, subspecies, or variety.

Global (G) Conservation Status Ranks

G1: Critically Imperiled - At very high risk of extinction or elimination due to very restricted range, very few populations or occurrences,

very steep declines, very severe threats, or other factors.

G2: Imperiled - at high risk of extinction or elimination due to restricted range, few populations or occurrences, steep declines, severe

threats, or other factors.

G3: Vulnerable - At moderate risk of extinction or elimination due to a fairly restricted range, relatively few populations or occurrences,

recent and widespread declines, threats, or other factors.

G4: Apparently Secure - At fairly low risk of extinction or elimination due to an extensive range and/or many populations or occurrences,

but with possible cause for some concern as a result of local recent declines, threats, or other factors.

G5: Secure - At very low risk or extinction or elimination due to a very extensive range, abundant populations or occurrences, and little to

no concern from declines or threats.

G#G#: Range Rank – A numeric range rank (e.g., G2G3, G1G3) is used to indicate the range of uncertainty about the exact status of a taxon or

ecosystem type. Ranges cannot skip more than two ranks (e.g., GU should be used rather than G1G4).

GX: Presumed Extinct - Not located despite intensive searches and virtually no likelihood of rediscovery.

GH: Possibly Extinct - Known from only historical occurrences but still some hope of rediscovery. Examples of evidence include (1) that a

species has not been documented in approximately 20-40 years despite some searching and/or some evidence of significant habitat loss

or degradation; (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is extinct or

eliminated throughout its range.

GU: Unrankable – Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

GNR: Unranked – Global rank not yet assessed.

GNA: Not Applicable – A conservation status rank is not applicable because the species is not a suitable target for conservation activities. A

global conservation status rank may be not applicable for several reasons, related to its relevance as a conservation target. For species, typically the species is a hybrid without conservation value, or of domestic origin. For ecosystems, the type is typically non-native (e.g.,

many ruderal vegetation types), agricultural (e.g. pasture, orchard) or developed (e.g. lawn, garden, golf course).

?: Inexact Numeric Rank – Denotes inexact numeric rank; this should not be used with any of the Variant Global Conservation Status

Ranks or GX or GH.

T#: Infraspecific Taxon (trinomial) - The status of infraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the

species' global rank. Rules for assigning T-ranks follow the same principles outlined above. For example, the global rank of a critically imperiled subspecies of an otherwise widespread and common species would be G5T1. A T subrank cannot imply the subspecies or

variety is more abundant than the species, for example, a G1T2 subrank should not occur. A vertebrate animal population (e.g., listed under the U.S. Endangered Species Act or assigned candidate status) may be tracked as an infraspecific taxon and given a T rank; in such cases a Q is used after the T-rank to denote the taxon's informal taxonomic status.

Questionable taxonomy that may reduce conservation priority – Distinctiveness of this entity as a taxon or ecosystem type at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, or inclusion of this taxon or type in another taxon or type, with the resulting taxon having a lower priority (numerically higher) conservation status rank. The "Q" modifier is only used at a global level and not at a national or subnational level.

Captive or Cultivated Only – Taxon or ecosystem at present is presumed or possibly extinct or eliminated in the wild across their entire native range but is extant in cultivation, in captivity, as a naturalized population (or populations) outside their native range, or as a reintroduced population or ecosystem restoration, not yet established. The "C" modifier is only used at a global level and not at a national or subnational level. Possible ranks are GXC or GHC. This is equivalent to "Extinct" in the Wild (EW) in IUCN's Red List terminology (IUCN 2001).

## <sup>4</sup> S-Ranks (Provincial)

Q:

C:

Provincial Status from the NHIC (Dec. 16, 2018)

NHIC: http://www.sse.gov.on.ca/sites/MNR-PublicDocs/EN/ProvincialServices/Ontario\_Vascular\_Plants.xlsx
Provincial (or Subnational) ranks are used by the Natural Heritage Information Centre (NHIC) to set protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario.

S1: Critically Imperiled – At very high risk of extirpation in the jurisdiction due to very restricted range, very few populations or

occurrences, very steep declines, severe threats, or other factors.

S2: Imperiled – At high risk of extirpation in the jurisdiction due to restricted range, few populations or occurrences, steep declines, severe

threats, or other factors.

S3: Vulnerable – At moderate risk of extirpation in the jurisdiction due to a fairly restricted range, relatively few populations or

occurrences, recent and widespread declines, threats, or other factors.

S4: Apparently Secure – At a fairly low risk of extirpation in the jurisdiction due to an extensive range and/or many populations or

occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors.

S5: Secure – At very low or no risk of extirpation in the jurisdiction due to a very extensive range, abundant populations or occurrences,

with little to no concern from declines or threats.

S#S#: Range Rank – A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or

community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

SX: Presumed Extirpated – Species or ecosystem is believed to be extirpated from the jurisdiction (province). Not located despite intensive

searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered. [equivalent to

"Regionally Extinct" in IUCN Red List terminology]

SH: Possibly Extirpated (Historical) – Known from only historical records but still some hope of rediscovery. There is evidence that the

species or ecosystem may no longer be present in the jurisdiction, but not enough to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching and/or some

evidence of significant habitat loss or degradation; (2) that a species or ecosystem has been searched for unsuccessfully, but not

thoroughly enough to presume that it is no longer present in the jurisdiction.

SNR: Unranked – subnational conservation status not yet assessed.

SU: Unrankable – Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

SNA: Not Applicable – A conservation status rank is not applicable because the species is not a suitable target for conservation activities

(e.g., long distance aerial and aquatic migrants, hybrids without conservation value, and non-native species.

?: Inexact or Uncertain - Denotes inexact or uncertain numeric rank.

T#: Infraspecific Taxon (trinomial) - The status of infraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the

species' global rank. Rules for assigning T-ranks follow the same principles outlined above. For example, the subnational rank of a critically imperiled subspecies of an otherwise widespread and common species would be S5T1. A T subrank cannot imply the subspecies or variety is more abundant than the species, for example, a S1T2 subrank should not occur. A vertebrate animal population may be tracked as an infraspecific taxon and given a T rank; in such cases a Q is used after the T-rank to denote the taxon's informal

taxonomic status.

## <sup>5</sup> COSEWIC (Committee on the Status of Endangered Wildlife in Canada)

The federal review process is implemented by COSEWIC (Status as of Dec. 2018)

The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) is an independent advisory panel to the Minister of Environment and Climate Change Canada that meets twice a year to assess the status of wildlife species at risk of extinction.

https://www.canada.ca/en/environment-climate-change/services/committee-status-endangered-wildlife.html

EXT: Extinct – A species that no longer exists.

EXP: Extirpated – A species no longer existing in the wild in Canada, but occurring elsewhere.

END: Endangered – A species facing imminent extirpation or extinction.

THR: Threatened – A species likely to become endangered if limiting factors are not reversed.

SC: Special Concern – A species that may become a threatened or an endangered species because of a combination of biological

characteristics and identified threats.

NAR: Not At Risk – A species that has been evaluated and found to be not at risk of extinction given the current circumstances.

DD: Data Deficient – Available information is insufficient (a) to resolve a species' eligibility for assessment or (b) to permit an assessment

of the species' risk of extinction.

# <sup>6</sup> SARA (Species at Risk Act) Status and Schedule

Federal status from the Government of Canada's Species at Risk Public Registry (Status as of Dec. 2018)

http://www.registrelep-sararegistry.gc.ca/

The Act establishes Schedule 1, as the official list of species at risk in Canada. It classifies those species as being either Extirpated, Endangered, Threatened, or a Special Concern. Once listed, the measures to protect and recover a listed species are implemented. However, please note that while Schedule 1 lists species that are extirpated, endangered, threatened and of special concern, the prohibitions do not apply to species of special concern.

EXT: Extinct – A species that no longer exists.

EXP: Extirpated – A species that no longer exists in the wild in Canada, but exists elsewhere in the wild.

END: Endangered – A species that is facing imminent extirpation or extinction.

THR: Threatened – A species likely to become endangered if limiting factors are not reversed.

SC: Special Concern – A species that may become a threatened or an endangered species because of a combination of biological

characteristics and identified threats.

# <sup>7</sup> SARO (Species At Risk in Ontario)

Provincial status from MNRF (Status as of Dec. 2018)

https://www.ontario.ca/environment-and-energy/species-risk-ontario-list

The provincial review process is implemented by the MNR's Committee on the Status of Species at Risk in Ontario (COSSARO). COSSARO is an independent advisory panel to the Ontario Ministry of Natural Resources and Forestry that assesses the status of species at risk of extinction.

EXP: Extirpated – Lives somewhere in the world, and at one time lived in the wild in Ontario, but no longer lives in the wild in Ontario.

END: Endangered – Lives in the wild in Ontario but is facing imminent extinction or extirpation.

THR: Threatened – Lives in the wild in Ontario, is not endangered, but is likely to become endangered if steps are not taken to address factors

threatening it.

SC: Special Concern – Lives in the wild in Ontario, is not endangered or threatened, but may become threatened or endangered due to a

combination of biological characteristics and identified threats.

# <sup>8</sup>Ecodistrict 7E4 (comprising the City of Toronto, and southern portions of York, Peel, and Halton Regional Municipalities)

Oldham, Michael J. 2017. List of the Vascular Plants of Ontario's Carolinian Zone (Ecoregion 7E). Carolinian Canada and Ontario Ministry of Natural Resources and Forestry. Peterborough, ON. 132 pp.

Rankings are based on "previous lists, personal communications, and the author's knowledge of the Carolinian Zone flora."

Codes are defined as follows:

H: Historic. Native and no known records for at least 30 years.

R: Rare

U: Uncommon

C: Common

X: Present. Native but no status assigned because of lack of information, often due to confusion with similar species.

I: Introduced. A non-native (exotic) species that is established (or was formerly established) outside of cultivation.

# <sup>8</sup>Toronto and Region Conservation Authority (TRCA).

Toronto and Region Conservation Authority (TRCA). 2018. Annual Local Occurrence Score and Local Rank Update: Terrestrial Species and Vegetation Communities.

L rank (Local Rank) – A rank assigned by TRCA to a species, vegetation community, or habitat patch which describes its rank and level of conservation concern in the TRCA Region. Species of concern, according to the TRCA methodology are any species with a local rank of L1 to L3, and some particularly sensitive species with a rank of L4. They are generally species which are disappearing in the landscape, primarily as a result of land use changes. For flora the ranks are defined as follows:

- L1: Of concern regionally; almost certainly rare in TRCA jurisdiction; generally occur in high-quality natural areas, in natural matrix; unable to withstand disturbance.
- L2: Of concern regionally; probably rare in TRCA jurisdiction; generally occur in high-quality natural areas, in natural matrix; unable to withstand disturbance.
- L3: Of concern regionally; generally secure in natural matrix; able to withstand minor disturbance.
- L4: Of concern in urban matrix; generally secure in rural matrix; able to withstand some disturbance.
- L5: Not of concern; generally secure throughout jurisdiction, including urban matrix; able to withstand high levels of disturbance.
- LX: Extirpated from the TRCA region with remote chance of rediscovery. Presumably highly sensitive. Not scored.
- LH: Hybrid between two native species. Usually not scored unless highly stable and behaves like a species.
- L+: Exotic. Not native to TRCA jurisdiction. Includes hybrids between a native species and an exotic. Not scored.
- L+?: Origin uncertain or disputed (i.e., may or may not be native). Not scored.

## <sup>9</sup>Native Status

Based on Vascan (Dec. 2017) and NHIC (Dec. 16, 2018)

Vascan: http://data.canadensys.net/vascan/search

NHIC: http://www.sse.gov.on.ca/sites/MNR-PublicDocs/EN/ProvincialServices/Ontario\_Vascular\_Plants.xlsx

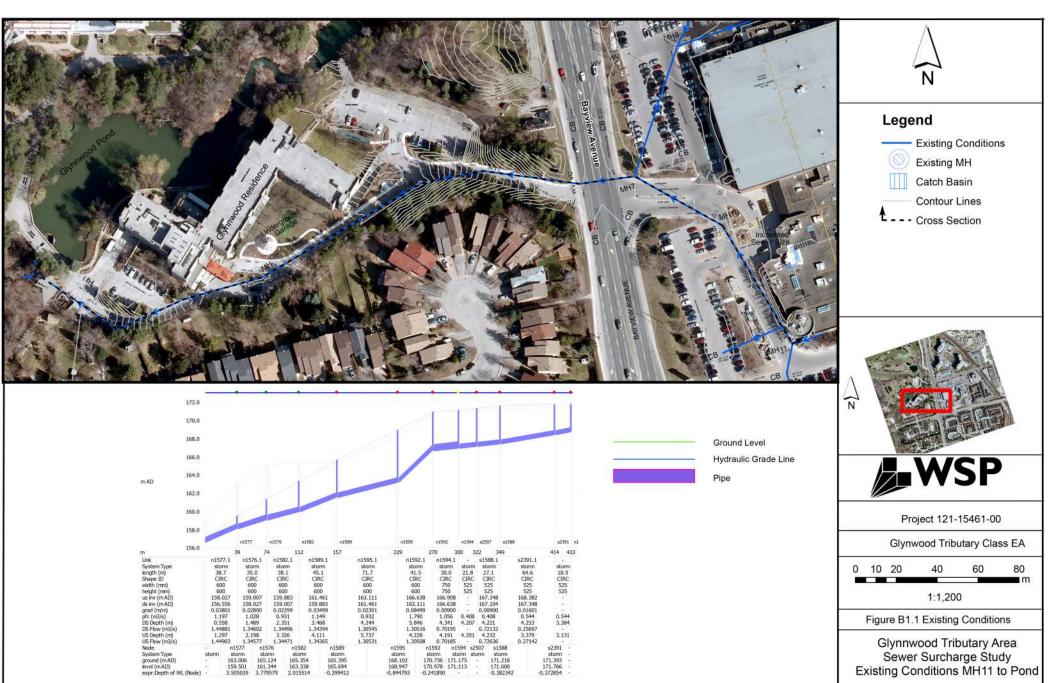
Appendix B: Incidental Wildlife Species List

COMMON NAME	SCIENTIFIC NAME	G_RANK <sup>3</sup>	S_RANK⁴	COSEWIC⁵	SARO <sup>7</sup>	FAMILY
Mallard	Anas platyrhynchos	G5	S5	-	-	Anatidae
Canada Goose	Branta canadensis	G5	S5	-	-	Anatidae
Northern Cardinal	Cardinalis cardinalis	G5	S5	-	-	Cardinalidae
American Goldfinch	Carduelis tristis	G5	S5B	-	1	Fringillidae
American Crow	Corvus brachyrhynchos	G5	S5B	-	1	Corvidae
Blue Jay	Cyanocitta cristata	G5	S5	-	1	Corvidae
Green Frog	Lithobates clamitans	G5	S5	-	-	Ranidae
Belted Kingfisher	Megaceryle alcyon	G5	S4B	-	1	Alcedinidae
Downy Woodpecker	Picoides pubescens	G5	S5	-	1	Picidae
Hairy Woodpecker	Picoides villosus	G5	S5	-	-	Picidae
Black-capped Chickadee	Poecile atricapillus	G5	S5	-	-	Paridae
Eastern Gray Squirrel	Sciurus carolinensis	G5	S5	-	-	Sciuridae
Red-breasted Nuthatch	Sitta canadensis	G5	S5	-	-	Sittidae
Eastern Cottontail	Sylvilagus floridanus	G5	S5	-	•	Leporidae
Eastern Chipmunk	Tamias striatus	G5	S5	-	-	Sciuridae
American Robin	Turdus migratorius	G5	S5B	-	-	Turdidae
Mourning Dove	Zenaida macroura	G5	S5	-	-	Columbidae

# **APPENDIX**

# B

HYDRAULIC PROFILES – 100-YEAR EXISTING SYSTEM



3.131

s2391 storm 171.393 171.766 -0.372854

Node
System Type
ground (mAD)
level (mAD)
expr:Depth of WL (Node)

n1577 storm 163.006 159.501 3.505039

n1576 storm 165.124 161.344 3.779579

storm 165.354 163.338 2.015514

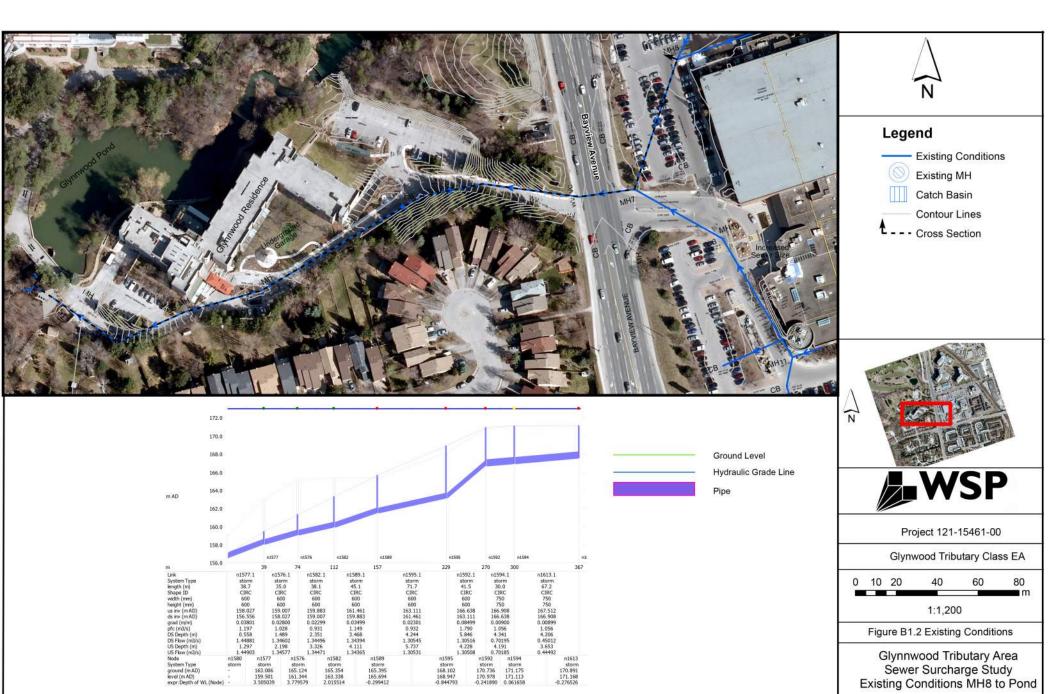
n1589 storm 165.395 165.694 -0.299412

n1595 storm 168.102 168.947 -0.844793

Glynnwood Tributary Area

Sewer Surcharge Study

Existing Conditions MH11 to Pond



Existing Conditions MH8 to Pond