

Appendix A: Data used to determine watershed report card grades for surface water quality conditions throughout the Ausable Bayfield Conservation Authority (ABCA) area

Watershed	Site	Total Phosphorus			<i>Escherichia coli</i> (<i>E. coli</i>)			Chloride			Benthic Invertebrates		
		Years of Data	Number of Samples	Years of Data	Number of Samples	Years of Data	Number of Samples	Years of Data	Number of Samples	Years of Data	Number of Samples		
Ausable Headwaters	HASTAF1	2017-2021	43	2017-2021	43	-	-	2017-2021	5				
Bannockburn	MBBAN1	2017-2021	43	2017-2021	43	-	-	2017-2021	5				
Bayfield Headwaters	MBSEA1	2017-2021	43	2017-2021	43	2017-2021	39	2017-2021	5				
Bayfield North	GULGUL5	2017-2021	43	2017-2021	39	-	-	-	-				
	GULGUL2	-	-	-	-	-	-	2017-2020	4				
Black Creek	MABLA2	2017-2021	43	2017-2021	43	2017-2021	39	2017-2021	5				
Little Ausable	MALIT2	2017-2021	42	2017-2021	42	-	-	2017-2021	5				
Lower Ausable	MABOG1	2017-2021	43	2017-2021	43	2017-2021	39	-	-				
	MADECK2	-	-	-	-	-	-	2017-2021	5				
Lower Parkhill	MPMCIN1	2017-2021	43	2017-2021	43	2017-2021	39	-	-				
	HPDESJ1	-	-	-	-	-	-	2017, 2019	2				
Main Bayfield	MBVAR1	2017-2021	43	2017-2021	43	2017-2021	39	2017-2021	5				
Middle Ausable	MASPR1	2017-2021	42	2017-2021	42	2017-2021	38	-	-				
	MAGLAS1	-	-	-	-	-	-	2017-2020	4				
Mud Creek	MMOUTER1	2017-2021	43	2017-2021	43	-	-	-	-				
	HMUD21	-	-	-	-	-	-	2017, 2019-2021	4				
Nairn Creek	MANAIRN1	2017-2021	42	2017-2021	42	-	-	2017-2021	5				
Old Ausable Channel	OACDAM1	2017-2021	39	2017-2021	38	-	-	-	-				
South Gullies	GULZUR8	2012-2016	42	2017-2021	42	-	-	2017-2021	5				
Upper Ausable	MAEXE1	2012-2016	43	2017-2021	43	2017-2021	39	2017-2021	5				
Upper Parkhill	MPMCGUF1	2012-2016	42	2017-2021	42	2017-2021	38	2017-2021	5				

Appendix B: Species at risk in ABCA area (Ausable Bayfield Conservation Authority 2022, Ontario Ministry of Natural Resources and Forestry 2022).

Watershed	Species Type	Species Name
Ausable Headwaters	Bird	Bank Swallow, Bobolink, Eastern Wood-pewee, Red-headed Woodpecker, Wood Thrush
	Reptile	Snapping Turtle
	Plant	Butternut
Bannockburn	Mammal	Little Brown Bat
	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Canada Warbler, Eastern Meadowlark, Eastern Wood-pewee, Red-headed Woodpecker, Wood Thrush
	Reptile	Snapping Turtle
	Fish	Northern Brook Lamprey
	Mussel	Rainbow Mussel
	Plant	Two including Butternut
Bayfield Headwaters	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Canada Warbler, Chimney Swift, Common Nighthawk, Eastern Meadowlark, Red-headed Woodpecker, Wood Thrush
	Reptile	Two including Snapping Turtle
	Mussel	Rainbow Mussel
	Plant	Green Dragon
Bayfield North	Bird	Barn Swallow, Bobolink, Eastern Meadowlark, Eastern Wood-pewee, Wood Thrush
	Reptile	Three including Snapping Turtle and Queensnake
	Fish	Black Redhorse, Redside Dace
	Insect	Monarch
Black Creek	Plant	Black Ash, Butternut
	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Chimney Swift, Eastern Meadowlark, Eastern Wood-pewee, Wood Thrush
	Reptile	Blanding's Turtle, Snapping Turtle
	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Chimney Swift, Eastern Meadowlark, Eastern Wood-pewee, Red-headed Woodpecker, Short-eared Owl, Wood Thrush
Little Ausable	Reptile	Snapping Turtle
	Fish	Black Redhorse
	Mussel	Rainbow Mussel, Wavy-rayed Lampmussel
	Plant	Heart-leaved Plantain

Watershed	Species Type	Species Name
Lower Ausable	Mammal	American Badger
	Bird	Acadian Flycatcher, Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Cerulean Warbler, Chimney Swift, Eastern Meadowlark, Eastern Whip-poor-will, Eastern Wood-pewee, Least Bittern, Louisiana Waterthrush, Northern Bobwhite, Red-headed Woodpecker, Wood Thrush
	Reptile	Ten including Blanding's Turtle, Common Five-lined Skink, Eastern Hog-nosed Snake, Eastern Musk Turtle, Eastern Ribbonsnake, Eastern Spiny Softshell Turtle, Northern Map Turtle, Snapping Turtle, Queensnake
	Fish	Northern Sunfish
	Mussel	Mapleleaf Mussel, Northern Riffleshell, Purple Wartyback, Snuffbox
	Insect	Gypsy Cuckoo Bumble Bee
	Plant	Thirteen including Broad Beech Fern, Butternut, Dwarf Hackberry, Eastern Flowering Dogwood, False Rue-anemone, Fern-leaved Yellow False Foxglove, Green Dragon, Pitcher's Thistle, Riddell's Goldenrod, Spoon-leaved Moss, Tuberosus Indian-plantain
Lower Parkhill	Mammal	American Badger, Little Brown Bat
	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Canada Warbler, Chimney Swift, Eastern Meadowlark, Eastern Whip-poor-will, Grasshopper Sparrow, Northern Bobwhite, Red-headed Woodpecker, Wood Thrush,
	Reptile	Common Five-lined Skink, Eastern Hog-nosed Snake, Snapping Turtle
	Fish	River Redhorse
	Plant	Butternut, Drooping Trillium, Dwarf Hackberry, False Rue-anemone, Green Dragon, Heart-leaved Plantain, Pitcher's Thistle, Riddell's Goldenrod
Main Bayfield	Mammal	Little Brown Bat
	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Chimney Swift, Eastern Meadowlark, Eastern Wood-pewee, Louisiana Waterthrush, Northern Bobwhite, Wood Thrush,
	Reptile	Three including Snapping Turtle and Queensnake
	Fish	Black Redhorse
	Mussel	Mapleleaf Mussel, Rainbow Mussel
	Plant	Butternut, Green Dragon, Tuberosus Indian-plantain, Wood-poppy

Watershed	Species Type	Species Name
Middle Ausable	Mammal	American Badger
	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Barn Owl, Bobolink, Eastern Meadowlark, Eastern Wood-pewee, Loggerhead Shrike, Red-headed Woodpecker, Short-eared Owl, Wood Thrush,
	Reptile	Four including Eastern Spiny Softshell Turtle, Northern Map Turtle and Snapping Turtle
	Mussel	Kidneyshell, Mapleleaf Mussel, Northern Riffleshell, Rainbow Mussel, Snuffbox, Wavy-rayed Lampmussel
	Plant	Eastern Flowering Dogwood, Green Dragon
Mud Creek	Mammal	Little Brown Bat
	Bird	Acadian Flycatcher, Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Canada Warbler, Cerulean Warbler, Eastern Meadowlark, Eastern Wood-pewee, Least Bittern, Louisiana Waterthrush, Northern Bobwhite, Prothonotary Warbler, Red-headed Woodpecker, Wood Thrush
	Reptile	Six including Blanding's Turtle, Eastern Hog-nosed Snake, Eastern Musk Turtle, Eastern Ribbonsnake, Snapping Turtle
	Fish	Grass Pickerel, Lake Chubsucker, Pugnose Shiner
	Plant	Thirteen including Black Ash, Bluehearts, Butternut, Cucumber Tree, Dense Blazing Star, Drooping Trillium, Dwarf Hackberry, Eastern Flowering Dogwood, Heart-leaved Plantain, Pitcher's Thistle, Showy Goldenrod
Nairn Creek	Bird	Acadian Flycatcher, Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Eastern Meadowlark, Eastern Wood-pewee, Least Bittern, Loggerhead Shrike, Prothonotary Warbler, Red-headed Woodpecker, Wood-poppy, Wood Thrush
	Reptile	Snapping Turtle
	Fish	Northern Brook Lamprey
	Mussel	Kidneyshell, Northern Riffleshell, Rainbow Mussel, Wavy-rayed Lampmussel
	Plant	Butternut, Dense Blazing Star, Wood-poppy

Watershed	Species Type	Species Name
Old Ausable Channel	Mammal	Little Brown Bat, Woodland Vole
	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Canada Warbler, Cerulean Warbler, Common Nighthawk, Eastern Whip-poor-will, Eastern Wood-pewee, Least Bittern, Prothonotary Warbler, Red-headed Woodpecker, Wood Thrush
	Reptile	Blanding's Turtle, Common Five-Lined Skink, Eastern Hog-nosed Snake, Eastern Musk Turtle, Eastern Ribbonsnake, Northern Map Turtle, Snapping Turtle
	Fish	Grass Pickerel, Lake Chubsucker, Northern Sunfish, Pugnose Shiner
	Insect	Aweme Borer Moth, Monarch, Mottled Duskywing, Northern Barrens Tiger Beetle, Rusty-patched Bumble Bee
	Plant	Seven including Bluehearts, Dense Blazing Star, Dwarf Hackberry, Fern-leaved Yellow False Foxglove, Green Dragon, Pitcher's Thistle
South Gullies	Mammal	Little Brown Bat
	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Eastern Meadowlark, Eastern Wood-pewee, Red-headed Woodpecker, Wood Thrush
	Reptile	Blanding's Turtle, Snapping Turtle
	Fish	Redside Dace
	Plant	Butternut
Upper Ausable	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Chimney Swift, Eastern Meadowlark, Eastern Wood-pewee, Red-headed Woodpecker, Wood Thrush
	Reptile	Northern Map Turtle, Snapping Turtle
	Fish	Black Redhorse, Northern Sunfish
	Mussel	Kidneyshell, Northern Riffleshell, Rainbow Mussel, Snuffbox, Wavy-rayed Lampmussel
	Plant	Five including Butternut, False Hop Sedge, Green Dragon, Riddell's Goldenrod
Upper Parkhill	Bird	Bald Eagle, Bank Swallow, Barn Swallow, Bobolink, Eastern Meadowlark, Eastern Wood-pewee, Prothonotary Warbler, Red-headed Woodpecker, Wood Thrush
	Reptile	Snapping Turtle
	Plant	Seven including Butternut, False Hop Sedge, False Rue-anemone Green Dragon, Riddell's Goldenrod