

Appendix C

Harrington Dam Area Fish and Benthic Records

Update Oct 13, 2016

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Fish diversity upstream of Harrington Pond

Species	Status - Global	Can	Ont.	Thames	Thames Distribution	Times Sampled
Blacknose Dace	G5		S5	Abundant	widespread	1
Brook Stickleback	G5		S5	Abundant	widespread	1
Brook Trout (coldwater)	G5T		S5	Uncommon	localized	3
Common Carp	G5		SNA	Abundant	widespread	1
Mottled Sculpin (coldwater)	G5		S5	Uncommon	localized	4
Rock Bass	G5		S5	Abundant	widespread	3
White Sucker	G5		S5	Abundant	widespread	3

Fish diversity downstream of Harrington Dam

Species	Status - Global	Can	Ont.	Thames	Thames Distribution	Times Sampled
Black Bullhead	G5		S4	Common	widespread	7
Blacknose Dace	G5		S5	Abundant	widespread	4
Blackside Darter	G5		S4	Abundant	widespread	13
Bluntnose Minnow	G5		S5	Abundant	widespread	12
Brook Stickleback	G5		S5	Abundant	widespread	2
Brook Trout (coldwater)	G5T		S5	Uncommon	localized	10
Brown Bullhead	G5		S5	Uncommon	widespread	1
Central Mudminnow	G5		S5	Abundant	widespread	5
Central Stoneroller	G5		S4	Abundant	widespread	3
Common Carp	G5		SNA	Abundant	widespread	9
Common Shiner	G5		S5	Abundant	widespread	5
Creek Chub	G5		S5	Abundant	widespread	6
Fathead Minnow	G5		S5	Abundant	widespread	5
Golden Shiner	G5		S5	Common	localized	4
Hornyhead Chub	G5		S4	Abundant	widespread	1
Johnny Darter	G5		S5	Abundant	widespread	10
Largemouth Bass	G5		S5	Abundant	widespread	11
Least Darter	G5		S4	Common	widespread	1
Mottled Sculpin (coldwater)	G5		S5	Uncommon	localized	10
Northern Hog Sucker	G5		S4	Abundant	widespread	2
Northern Pike	G5		S5	Common	widespread	6
Pumpkinseed	G5		S5	Abundant	widespread	7
Rainbow Darter	G5		S4	Uncommon	localized	12
Rainbow Trout	G5		SNA	Common	locally common	4
Rock Bass	G5		S5	Abundant	widespread	13
Smallmouth Bass	G5		S5	Abundant	widespread	12
Stonecat	G5		S4	Abundant	widespread	1
Striped Shiner	G5		S4	Abundant	widespread	2
White Sucker	G5		S5	Abundant	widespread	12
Yellow Perch	G5		S5	Common	widespread	9

Harrington Dam area fish sampling (2015)

Species (Common Name)	Scientific Name	COSEWIC	SARA	ESA 2007	SRank	Abundance	Distribution
<u>Harrington Creek</u>							
Upstream of Harrington CA pond		UTM x: 500576		UTM y: 4787140	R269		4/15/2015
Brook Stickleback	<i>Culaea inconstans</i>				S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>				S5	Uncommon	localized
Mottled Sculpin	<i>Cottus bairdi</i>				S5	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>				S5	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>				S5	Abundant	widespread
Upstream of Harrington CA pond		UTM x: 500576		UTM y: 4787140	R269		11/11/2015
Brook Trout	<i>Salvelinus fontinalis</i>				S5	Uncommon	localized
Mottled Sculpin	<i>Cottus bairdi</i>				S5	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>				S5	Abundant	widespread
<u>Harrington-West Drain</u>							
31st Line		UTM x: 500617		UTM y: 4786411	815-UT		11/11/2015
Blacknose Dace	<i>Rhinichthys atratulus</i>				S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>				S5	Uncommon	localized
White Sucker	<i>Catostomus commersoni</i>				S5	Abundant	widespread
<u>Harrington Creek</u>							
Harrington CA, Rd 96		UTM x: 500623		UTM y: 4787599	HA04		4/15/2015
Blacknose Dace	<i>Rhinichthys atratulus</i>				S5	Abundant	widespread
Blackside Darter	<i>Percina maculata</i>				S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>				S5	Abundant	widespread
Brook Stickleback	<i>Culaea inconstans</i>				S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>				S5	Uncommon	localized
Fathead Minnow	<i>Pimephales promelas</i>				S5	Abundant	widespread
Mottled Sculpin	<i>Cottus bairdi</i>				S5	Uncommon	localized
Rainbow Darter	<i>Etheostoma caeruleum</i>				S4	Uncommon	localized
Rainbow Trout	<i>Oncorhynchus mykiss</i>				SNA	Common	locally common
Rock Bass	<i>Ambloplites rupestris</i>				S5	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>				S5	Abundant	widespread
Harrington CA, Rd 96		UTM x: 500623		UTM y: 4787599	HA04		7/22/2015
Black Bullhead	<i>Ameiurus melas</i>				S4	Common	widespread
Blackside Darter	<i>Percina maculata</i>				S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>				S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>				S5	Uncommon	localized
Central Mudminnow	<i>Umbra limi</i>				S5	Abundant	widespread
Common Carp	<i>Cyprinus carpio</i>				SNA	Abundant	widespread
Common Shiner	<i>Luxilus cornutus</i>				S5	Abundant	widespread
Creek Chub	<i>Semotilus atromaculatus</i>				S5	Abundant	widespread
Johnny Darter	<i>Etheostoma nigrum</i>				S5	Abundant	widespread

Largemouth Bass	<i>Micropterus salmoides</i>	S5	Abundant	widespread
Mottled Sculpin	<i>Cottus bairdi</i>	S5	Uncommon	localized
Northern Hog Sucker	<i>Hypentelium nigricans</i>	S4	Abundant	widespread
Northern Pike	<i>Esox lucius</i>	S5	Common	widespread
Pumpkinseed	<i>Lepomis gibbosus</i>	S5	Abundant	widespread
Rainbow Darter	<i>Etheostoma caeruleum</i>	S4	Uncommon	localized
Rainbow Trout	<i>Oncorhynchus mykiss</i>	SNA	Common	locally common
Rock Bass	<i>Ambloplites rupestris</i>	S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>	S5	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread
Yellow Perch	<i>Perca flavescens</i>	S5	Common	widespread

Harrington CA, Rd 96	UTM x: 500623	UTM y: 4787599	HA04	8/16/2015
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Blackside Darter	<i>Percina maculata</i>	S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>	S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>	S5	Uncommon	localized
Common Carp	<i>Cyprinus carpio</i>	SNA	Abundant	widespread
Creek Chub	<i>Semotilus atromaculatus</i>	S5	Abundant	widespread
Johnny Darter	<i>Etheostoma nigrum</i>	S5	Abundant	widespread
Largemouth Bass	<i>Micropterus salmoides</i>	S5	Abundant	widespread
Mottled Sculpin	<i>Cottus bairdi</i>	S5	Uncommon	localized
Northern Pike	<i>Esox lucius</i>	S5	Common	widespread
Rainbow Darter	<i>Etheostoma caeruleum</i>	S4	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>	S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>	S5	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread

Harrington CA, Rd 96	UTM x: 500623	UTM y: 4787599	HA04	10/19/2015
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Blacknose Dace	<i>Rhinichthys atratulus</i>	S5	Abundant	widespread
Blackside Darter	<i>Percina maculata</i>	S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>	S5	Abundant	widespread
Central Stoneroller	<i>Campostoma anomalum</i>	S4	Abundant	widespread
Common Carp	<i>Cyprinus carpio</i>	SNA	Abundant	widespread
Common Shiner	<i>Luxilus cornutus</i>	S5	Abundant	widespread
Johnny Darter	<i>Etheostoma nigrum</i>	S5	Abundant	widespread
Largemouth Bass	<i>Micropterus salmoides</i>	S5	Abundant	widespread
Least Darter	<i>Etheostoma microperca</i>	S4	Common	widespread
Northern Pike	<i>Esox lucius</i>	S5	Common	widespread
Pumpkinseed	<i>Lepomis gibbosus</i>	S5	Abundant	widespread
Rock Bass	<i>Ambloplites rupestris</i>	S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>	S5	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread

Species (Common Name)	Scientific Name	COSEWIC	SARA	ESA 2007	SRank	Abundance	Distribution
<u>Harrington Pond</u>							
Harrington CA			UTM x: 500663	UTM y: 4787512		TR25	4/15/2015
Common Carp	<i>Cyprinus carpio</i>				SNA	Abundant	widespread
Mottled Sculpin	<i>Cottus bairdi</i>				S5	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>				S5	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>				S5	Abundant	widespread

Harrington Dam area fish sampling (1999 – 2014)

Species (Common Name)	Scientific Name	COSEWIC	SARA	ESA 2007	SRank	Abundance	Distribution
<u>Harrington West Tributary</u>							

Road 92 and Line 29			UTM x: 500009	UTM y: 4784089		TR23	8/14/2008
Brook Stickleback	<i>Culaea inconstans</i>				S5	Abundant	widespread

Harrington Creek

Upstream of Harrington CA pond			UTM x: 500576	UTM y: 4787140		R269	10/13/1992
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Brook Trout	<i>Salvelinus fontinalis</i>				S5	Uncommon	localized
Mottled Sculpin	<i>Cottus bairdi</i>				S5	Uncommon	localized

Upstream of Harrington CA pond			UTM x: 500576	UTM y: 4787140		R269	7/21/2009
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Brook Trout	<i>Salvelinus fontinalis</i>				S5	Uncommon	localized
Mottled Sculpin	<i>Cottus bairdi</i>				S5	Uncommon	localized

Harrington Creek

Harrington CA, Rd 96			UTM x: 500600	UTM y: 4787662		HA04	11/29/2004
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Black Bullhead	<i>Ameiurus melas</i>				S4	Common	widespread
Blacknose Dace	<i>Rhinichthys atratulus</i>				S5	Abundant	widespread
Blackside Darter	<i>Percina maculata</i>				S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>				S5	Abundant	widespread
Central Stoneroller	<i>Campostoma anomalum</i>				S4	Abundant	widespread
Common Shiner	<i>Luxilus cornutus</i>				S5	Abundant	widespread
Creek Chub	<i>Semotilus atromaculatus</i>				S5	Abundant	widespread
Largemouth Bass	<i>Micropterus salmoides</i>				S5	Abundant	widespread
Rainbow Darter	<i>Etheostoma caeruleum</i>				S4	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>				S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>				S5	Abundant	widespread
Striped Shiner	<i>Luxilus chrysocephalus</i>				S4	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>				S5	Abundant	widespread
Yellow Perch	<i>Perca flavescens</i>				S5	Common	widespread

Harrington CA, Rd 96			UTM x: 500600	UTM y: 4787662		HA04	7/21/2009
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Black Bullhead	<i>Ameiurus melas</i>				S4	Common	widespread
Blacknose Dace	<i>Rhinichthys atratulus</i>				S5	Abundant	widespread
Blackside Darter	<i>Percina maculata</i>				S4	Abundant	widespread

Brook Stickleback	<i>Culaea inconstans</i>	S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>	S5	Uncommon	localized
Central Stoneroller	<i>Campostoma anomalum</i>	S4	Abundant	widespread
Fathead Minnow	<i>Pimephales promelas</i>	S5	Abundant	widespread
Golden Shiner	<i>Notemigonus crysoleucas</i>	S5	Common	localized
Johnny Darter	<i>Etheostoma nigrum</i>	S5	Abundant	widespread
Largemouth Bass	<i>Micropterus salmoides</i>	S5	Abundant	widespread
Mottled Sculpin	<i>Cottus bairdi</i>	S5	Uncommon	localized
Rainbow Darter	<i>Etheostoma caeruleum</i>	S4	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>	S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>	S5	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread
Yellow Perch	<i>Perca flavescens</i>	S5	Common	widespread

Harrington CA, Rd 96	UTM x: 500600	UTM y: 4787662	HA04	5/14/2011
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Blackside Darter	<i>Percina maculata</i>	S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>	S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>	S5	Uncommon	localized
Central Mudminnow	<i>Umbra limi</i>	S5	Abundant	widespread
Mottled Sculpin	<i>Cottus bairdi</i>	S5	Uncommon	localized
Rainbow Darter	<i>Etheostoma caeruleum</i>	S4	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>	S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>	S5	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread

Harrington CA, Rd 96	UTM x: 500600	UTM y: 4787662	HA04	8/28/2012
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Black Bullhead	<i>Ameiurus melas</i>	S4	Common	widespread
Blackside Darter	<i>Percina maculata</i>	S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>	S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>	S5	Uncommon	localized
Brown Bullhead	<i>Ameiurus nebulosus</i>	S5	Uncommon	widespread
Central Mudminnow	<i>Umbra limi</i>	S5	Abundant	widespread
Common Carp	<i>Cyprinus carpio</i>	SNA	Abundant	widespread
Common Shiner	<i>Luxilus cornutus</i>	S5	Abundant	widespread
Golden Shiner	<i>Notemigonus crysoleucas</i>	S5	Common	localized
Johnny Darter	<i>Etheostoma nigrum</i>	S5	Abundant	widespread
Largemouth Bass	<i>Micropterus salmoides</i>	S5	Abundant	widespread
Northern Hog Sucker	<i>Hypentelium nigricans</i>	S4	Abundant	widespread
Pumpkinseed	<i>Lepomis gibbosus</i>	S5	Abundant	widespread
Rainbow Darter	<i>Etheostoma caeruleum</i>	S4	Uncommon	localized
Rainbow Trout	<i>Oncorhynchus mykiss</i>	SNA	Common	locally common
Rock Bass	<i>Ambloplites rupestris</i>	S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>	S5	Abundant	widespread
Yellow Perch	<i>Perca flavescens</i>	S5	Common	widespread

Harrington CA, Rd 96	UTM x: 500600	UTM y: 4787662	HA04	10/25/2012
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Black Bullhead	<i>Ameiurus melas</i>	S4	Common	widespread
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Blackside Darter	<i>Percina maculata</i>	S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>	S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>	S5	Uncommon	localized
Common Carp	<i>Cyprinus carpio</i>	SNA	Abundant	widespread
Common Shiner	<i>Luxilus cornutus</i>	S5	Abundant	widespread
Creek Chub	<i>Semotilus atromaculatus</i>	S5	Abundant	widespread
Fathead Minnow	<i>Pimephales promelas</i>	S5	Abundant	widespread
Johnny Darter	<i>Etheostoma nigrum</i>	S5	Abundant	widespread
Largemouth Bass	<i>Micropterus salmoides</i>	S5	Abundant	widespread
Mottled Sculpin	<i>Cottus bairdi</i>	S5	Uncommon	localized
Pumpkinseed	<i>Lepomis gibbosus</i>	S5	Abundant	widespread
Rainbow Darter	<i>Etheostoma caeruleum</i>	S4	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>	S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>	S5	Abundant	widespread
Striped Shiner	<i>Luxilus chrysocephalus</i>	S4	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread
Yellow Perch	<i>Perca flavescens</i>	S5	Common	widespread
Harrington CA, Rd 96		UTM x: 500600	UTM y: 4787662	HA04 7/12/2013
Blackside Darter	<i>Percina maculata</i>	S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>	S5	Abundant	widespread
Common Carp	<i>Cyprinus carpio</i>	SNA	Abundant	widespread
Fathead Minnow	<i>Pimephales promelas</i>	S5	Abundant	widespread
Johnny Darter	<i>Etheostoma nigrum</i>	S5	Abundant	widespread
Largemouth Bass	<i>Micropterus salmoides</i>	S5	Abundant	widespread
Mottled Sculpin	<i>Cottus bairdi</i>	S5	Uncommon	localized
Northern Pike	<i>Esox lucius</i>	S5	Common	widespread
Pumpkinseed	<i>Lepomis gibbosus</i>	S5	Abundant	widespread
Rainbow Darter	<i>Etheostoma caeruleum</i>	S4	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>	S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>	S5	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread
Yellow Perch	<i>Perca flavescens</i>	S5	Common	widespread
Harrington CA, Rd 96		UTM x: 500600	UTM y: 4787662	HA04 7/19/2013
Blackside Darter	<i>Percina maculata</i>	S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>	S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>	S5	Uncommon	localized
Common Carp	<i>Cyprinus carpio</i>	SNA	Abundant	widespread
Johnny Darter	<i>Etheostoma nigrum</i>	S5	Abundant	widespread
Largemouth Bass	<i>Micropterus salmoides</i>	S5	Abundant	widespread
Mottled Sculpin	<i>Cottus bairdi</i>	S5	Uncommon	localized
Northern Pike	<i>Esox lucius</i>	S5	Common	widespread
Pumpkinseed	<i>Lepomis gibbosus</i>	S5	Abundant	widespread
Rainbow Darter	<i>Etheostoma caeruleum</i>	S4	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>	S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>	S5	Abundant	widespread

White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread
Yellow Perch	<i>Perca flavescens</i>	S5	Common	widespread
Harrington CA, Rd 96		UTM x: 500600	UTM y: 4787662	HA04 7/16/2014
Black Bullhead	<i>Ameiurus melas</i>	S4	Common	widespread
Harrington CA, Rd 96		UTM x: 500600	UTM y: 4787662	HA04 10/9/2014
Black Bullhead	<i>Ameiurus melas</i>	S4	Common	widespread
Blackside Darter	<i>Percina maculata</i>	S4	Abundant	widespread
Bluntnose Minnow	<i>Pimephales notatus</i>	S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>	S5	Uncommon	localized
Central Mudminnow	<i>Umbra limi</i>	S5	Abundant	widespread
Common Carp	<i>Cyprinus carpio</i>	SNA	Abundant	widespread
Creek Chub	<i>Semotilus atromaculatus</i>	S5	Abundant	widespread
Fathead Minnow	<i>Pimephales promelas</i>	S5	Abundant	widespread
Golden Shiner	<i>Notemigonus crysoleucas</i>	S5	Common	localized
Hornyhead Chub	<i>Nocomis biguttatus</i>	S4	Abundant	widespread
Johnny Darter	<i>Etheostoma nigrum</i>	S5	Abundant	widespread
Largemouth Bass	<i>Micropterus salmoides</i>	S5	Abundant	widespread
Mottled Sculpin	<i>Cottus bairdi</i>	S5	Uncommon	localized
Pumpkinseed	<i>Lepomis gibbosus</i>	S5	Abundant	widespread
Rainbow Darter	<i>Etheostoma caeruleum</i>	S4	Uncommon	localized
Rock Bass	<i>Ambloplites rupestris</i>	S5	Abundant	widespread
Smallmouth Bass	<i>Micropterus dolomieu</i>	S5	Abundant	widespread
White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread
Yellow Perch	<i>Perca flavescens</i>	S5	Common	widespread

Harrington-West Drain

31st Line		UTM x: 500617	UTM y: 4786411	815-UT 10/25/1999
Brook Trout	<i>Salvelinus fontinalis</i>	S5	Uncommon	localized
Mottled Sculpin	<i>Cottus bairdi</i>	S5	Uncommon	localized
White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread
31st Line		UTM x: 500617	UTM y: 4786411	815-UT 8/14/2008
Blacknose Dace	<i>Rhinichthys atratulus</i>	S5	Abundant	widespread
Brook Trout	<i>Salvelinus fontinalis</i>	S5	Uncommon	localized
White Sucker	<i>Catostomus commersoni</i>	S5	Abundant	widespread

Global Rank (GRANK): Global ranks are assigned by a consensus of the network of natural heritage programs (conservation data centres), scientific experts, and The Nature Conservancy to designate a rarity rank based on the range-wide status of a species, subspecies or variety. The most important factors considered in assigning global (and provincial) ranks are the total number of known, extant sites world-wide, and the degree to which they are potentially or actively threatened with destruction. Other criteria include the number of known populations considered to be securely protected, the size of the various populations, and the ability of the taxon to persist at its known sites. The taxonomic distinctness of each taxon has also been considered. Hybrids, introduced species, and taxonomically dubious species, subspecies and varieties have not been included.

G1 Extremely rare; usually 5 or fewer occurrences in the overall range or very few remaining individuals; or because some factor(s) making it especially vulnerable to extinction.

G2 Very rare; usually between 5 and 20 occurrences in the overall range or with many individuals in fewer occurrences; or because of some factor(s) making it vulnerable to extinction.

G3 Rare to uncommon; usually between 20 and 100 occurrences; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances.

G4 Common; usually more than 100 occurrences; usually not susceptible to immediate threats.

G5 Very common; demonstrably secure under present conditions.

COSEWIC Status: The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) assesses species for their consideration for legal protection and recovery (or management) under the Species at Risk Act (SARA).

Extinct: A wildlife species that no longer exists.

Extirpated: A wildlife species no longer existing in the wild in Canada, but exists elsewhere.

Endangered: A wildlife species facing imminent extirpation or extinction.

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

Special Concern: A wildlife species that may become a threatened or an endangered species because of a combination of biological characteristics and identified threats.

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

Data Deficient: A category that applies when the available information is insufficient (a) to resolve a wildlife species' eligibility for assessment or (b) to permit an assessment of the wildlife species' risk of extinction.

References: http://www.sararegistry.gc.ca/species/schedules_e.cfm?id=1 https://www.registrelep-sararegistry.gc.ca/sar/index/default_e.cfm?styp=speciesindex=1cosid=common=scientific=population=taxid=3locid=0desid=0schid=0desid2=0

http://www.cosewic.gc.ca/eng/sct0/rpt/rpt_csar_e.pdf http://www.cosewic.gc.ca/eng/sct5/index_e.cfm (current to September 2009)

Provincial Rank (SRANK): Provincial (or Subnational) ranks are used by the Natural Heritage Information Centre 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. By comparing the global and provincial ranks, the status, rarity, and the urgency of conservation, needs can be ascertained. The NHIC evaluates provincial ranks on a continual basis and produces updated lists at least annually. The NHIC welcomes information which will assist in assigning accurate provincial ranks.

S1 Extremely rare in Ontario; usually 5 or fewer occurrences in the province or very few remaining individuals; often especially vulnerable to extirpation.

S2 Very rare in Ontario; usually between 5 and 20 occurrences in the province or with many individuals in fewer occurrences; often susceptible to extirpation.

S3 Rare to uncommon in Ontario; usually between 20 and 100 occurrences in the province; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances. Most species with an S3 rank are assigned to the watch list, unless they have a relatively high global rank.

S4 Common and apparently secure in Ontario; usually with more than 100 occurrences in the province.

S5 Very common and demonstrably secure in Ontario.

S? Unranked, or, if following a ranking, rank uncertain (e.g. S3?). S? species are thought to be rare in Ontario, but there is insufficient information available to assign a more accurate rank.

SE Exotic; not believed to be a native component of Ontario's flora

Harrington Dam area benthic water quality sampling summary

DATE FBI QUALITY

Harrington Creek upstream of dam 31st Line, 1.1 km south of Rd. 96 (near Harrington)

Site code: TR21 UTM X Coordinate: 500617 UTM Y Coordinate: 4786411

6/4/1997	5.63	Fair
6/22/1998	5.56	Fair
6/25/1999	5.67	Fair
6/25/1999	5.75	Fairly Poor
6/5/2000	5.33	Fair
10/2/2000	5.68	Fair
6/19/2001	4.93	Good
6/19/2002	4.86	Good
6/10/2003	5.04	Fair
5/31/2004	5.02	Fair
5/30/2006	5.35	Fair
10/6/2006	5.51	Fair
5/30/2007	5.42	Fair
10/1/2007	5.59	Fair
5/28/2008	5.59	Fair
10/3/2008	5.24	Fair
6/9/2009	5.67	Fair
9/29/2009	5.71	Fair
5/18/2010	4.94	Good
6/15/2010	5.51	Fair
10/5/2010	5.40	Fair
5/10/2011	4.65	Good
9/28/2011	5.84	Fairly Poor
5/9/2012	4.96	Good
9/26/2012	5.98	Fairly Poor
2/13/2013	4.95	Good
5/3/2013	4.85	Good
9/27/2013	6.57	Poor
5/8/2014	4.52	Good
9/26/2014	5.37	Fair
5/8/2015	4.68	Good
9/23/2015	5.53	Fair

Harrington Creek downstream of dam

Site code: TR41 UTM X Coordinate: 500623 UTM Y Coordinate: 4787599

10/18/2010	5.40	Fair
5/8/2015	6.73	Poor
9/23/2015	5.71	Fair

Harrington Dam area benthic sampling data (1997 – 2015)

Taxonomic Name Common Name Life Stage # in Subsample Biotic Index

Harrington Creek upstream of pond

31st Line, 1.1 km south of Rd. 96 (near Harrington)

Site code: TR21

UTM X: 500617

UTM Y: 4786411

Sampled - 6/4/1997

REP: 1

<i>Acariformes</i>	Water Mite	A	6	6
<i>Baetidae</i>	Small Mayfly	N	2	6
<i>Chironomidae</i>	Midge	L	38	6
<i>Elmidae</i>	Riffle Beetle	L	9	5
<i>Elmidae</i>	Riffle Beetle	A	2	5
<i>Empididae</i>	Dance Fly	L	9	6
<i>Hyalellidae</i>	Sideswimmer	A	6	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	7	5
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	5	2
<i>Pisidiidae</i>	Fingernail Clam	A	9	6
<i>Simuliidae</i>	Black Fly	P	1	5
<i>Tabanidae</i>	Horse Fly	L	3	5
<i>Uenoidae</i>	Caddisfly	L	2	3

Stream Health Fair Family Biotic Index 5.63

Sampled - 6/22/1998

REP: 1

<i>Acariformes</i>	Water Mite	A	1	6
<i>Baetidae</i>	Small Mayfly	N	16	6
<i>Ceratopogonidae</i>	Biting Midge	L	1	6
<i>Chironomidae</i>	Midge	P	4	6
<i>Chironomidae</i>	Midge	L	64	6
<i>Elmidae</i>	Riffle Beetle	L	5	5
<i>Empididae</i>	Dance Fly	L	2	6
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	1	5
<i>Lepidostomatidae</i>	<i>Lepidostatid</i> Caddisfly	L	2	1
<i>Leptoceridae</i>	Long-horned Caddisfly	L	1	4
<i>Leuctridae</i>	Stonefly	N	5	0
<i>Oligochaeta</i>	Aquatic Worm	A	2	8
<i>Simuliidae</i>	Black Fly	L	2	5
<i>Tabanidae</i>	Horse Fly	L	1	5

Stream Health Fair Family Biotic Index 5.56

Sampled - 6/25/1999

REP: 1

<i>Acariformes</i>	Water Mite	A	8	6
<i>Baetidae</i>	Small Mayfly	N	19	6
<i>Capniidae</i>	Stonefly	N	5	3
<i>Chironomidae</i>	Midge	L	72	6
<i>Chironomidae</i>	Midge	P	1	6
<i>Elmidae</i>	Riffle Beetle	A	1	5
<i>Elmidae</i>	Riffle Beetle	L	2	5
<i>Empididae</i>	Dance Fly	L	2	6
<i>Isotomidae</i>	Springtail	A	1	5
<i>Lepidostomatidae</i>	<i>Lepidostatid</i> Caddisfly	L	3	1
<i>Nematoda</i>	Thread Worm	A	3	5
<i>Physidae</i>	Pouch Snail	A	1	8
<i>Pisidiidae</i>	Fingernail Clam	A	1	6
<i>Simuliidae</i>	Black Fly	L	2	5
<i>Tipulidae</i>	Crane Fly	L	2	4

Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
Stream Health Fair Family Biotic Index 5.67				
REP: 2				
<i>Acariformes</i>	Water Mite	A	6	6
<i>Baetidae</i>	Small Mayfly	N	40	6
<i>Capniidae</i>	Stonefly	N	6	3
<i>Chironomidae</i>	Midge	L	89	6
<i>Chironomidae</i>	Midge	P	1	6
<i>Elmidae</i>	Riffle Beetle	L	4	5
<i>Elmidae</i>	Riffle Beetle	A	1	5
<i>Empididae</i>	Dance Fly	L	2	6
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	2	5
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	2	1
<i>Simuliidae</i>	Black Fly	L	3	5
Stream Health Fairly Poor Family Biotic Index 5.75				
Sampled - 6/5/2000				
REP: 1				
<i>Acariformes</i>	Water Mite	A	4	6
<i>Baetidae</i>	Small Mayfly	N	26	6
<i>Chironomidae</i>	Midge	P	8	6
<i>Chironomidae</i>	Midge	L	67	6
<i>Elmidae</i>	Riffle Beetle	L	4	5
<i>Empididae</i>	Dance Fly	L	1	6
<i>Leuctridae</i>	Stonefly	N	13	0
<i>Nematoda</i>	Thread Worm	A	2	5
<i>Nemouridae</i>	Stonefly	N	1	2
<i>Oligochaeta</i>	Aquatic Worm	A	2	8
<i>Simuliidae</i>	Black Fly	L	1	5
<i>Tipulidae</i>	Crane Fly	L	1	4
Stream Health Fair Family Biotic Index 5.33				
Sampled - 10/2/2000				
REP: 1				
<i>Acariformes</i>	Water Mite	A	9	6
<i>Chironomidae</i>	Midge	P	7	6
<i>Chironomidae</i>	Midge	L	38	6
<i>Elmidae</i>	Riffle Beetle	L	5	5
<i>Empididae</i>	Dance Fly	L	7	6
<i>Gammaridae</i>	Sideswimmer	A	1	6
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	20	5
<i>Lepidostomatidae</i>	<i>Lepidostomatid</i> Caddisfly	L	3	1
<i>Lymnaeidae</i>	Pond Snail	A	1	6
<i>Nemouridae</i>	Stonefly	N	1	2
<i>Oligochaeta</i>	Aquatic Worm	A	7	8
<i>Physidae</i>	Pouch Snail	A	1	8
<i>Pisidiidae</i>	Fingernail Clam	A	1	6
<i>Simuliidae</i>	Black Fly	L	4	5
<i>Tipulidae</i>	Crane Fly	L	1	4
Stream Health Fair Family Biotic Index 5.68				
Sampled - 6/19/2001				
REP: 1				
<i>Acariformes</i>	Water Mite	A	1	6
<i>Baetidae</i>	Small Mayfly	N	66	6
<i>Chironomidae</i>	Midge	P	1	6
<i>Chironomidae</i>	Midge	L	66	6

Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
<i>Elmidae</i>	Riffle Beetle	L	9	5
<i>Elmidae</i>	Riffle Beetle	A	2	5
<i>Empididae</i>	Dance Fly	P	1	6
<i>Empididae</i>	Dance Fly	L	1	6
<i>Gammaridae</i>	Sideswimmer	A	2	6
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	4	5
<i>Leuctridae</i>	Stonefly	N	34	0
<i>Nematoda</i>	Thread Worm	A	2	5
<i>Oligochaeta</i>	Aquatic Worm	A	3	8
<i>Physidae</i>	Pouch Snail	A	1	8
<i>Psychodidae</i>	Sand Fly	L	1	10
<i>Simuliidae</i>	Black Fly	L	10	5
<i>Turbellaria</i>	Flatworm	A	1	6

Stream Health Good Family Biotic Index 4.93

Sampled - 6/19/2002

REP: 1

<i>Acariformes</i>	Water Mite	A	4	6
<i>Baetidae</i>	Small Mayfly	N	58	6
<i>Chironomidae</i>	Midge	P	8	6
<i>Chironomidae</i>	Midge	L	64	6
<i>Coenagrionidae</i>	Narrow-winged Damselfly	N	1	8
<i>Elmidae</i>	Riffle Beetle	L	8	5
<i>Elmidae</i>	Riffle Beetle	A	4	5
<i>Empididae</i>	Dance Fly	L	2	6
<i>Leuctridae</i>	Stonefly	N	38	0
<i>Nemouridae</i>	Stonefly	N	2	2
<i>Oligochaeta</i>	Aquatic Worm	A	7	8
<i>Pisidiidae</i>	Fingernail Clam	A	1	6
<i>Psychodidae</i>	Sand Fly	L	1	10
<i>Simuliidae</i>	Black Fly	L	8	5
<i>Tabanidae</i>	Horse Fly	L	1	5

Stream Health Good Family Biotic Index 4.86

Sampled - 6/10/2003

REP: 1

<i>Acariformes</i>	Water Mite	A	4	6
<i>Baetidae</i>	Small Mayfly	N	108	6
<i>Ceratopogonidae</i>	Biting Midge	L	1	6
<i>Chironomidae</i>	Midge	L	66	6
<i>Chironomidae</i>	Midge	P	12	6
<i>Elmidae</i>	Riffle Beetle	A	4	5
<i>Elmidae</i>	Riffle Beetle	L	36	5
<i>Empididae</i>	Dance Fly	L	7	6
<i>Empididae</i>	Dance Fly	P	1	6
<i>Glossiphoniidae</i>	Leech	A	2	8
<i>Hyalellidae</i>	Sideswimmer	A	1	8
<i>Leuctridae</i>	Stonefly	N	34	0
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	9	2
<i>Pisidiidae</i>	Fingernail Clam	A	2	6
<i>Simuliidae</i>	Black Fly	L	4	5
<i>Tabanidae</i>	Horse Fly	L	1	5

Stream Health Fair Family Biotic Index 5.04

Sampled - 5/31/2004

REP: 1

<i>Acariformes</i>	Water Mite	A	7	6
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Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
<i>Baetidae</i>	Small Mayfly	N	31	6
<i>Ceratopogonidae</i>	Biting Midge	L	2	6
<i>Chironomidae</i>	Midge	L	85	6
<i>Chironomidae</i>	Midge	P	2	6
<i>Elmidae</i>	Riffle Beetle	A	2	5
<i>Elmidae</i>	Riffle Beetle	L	11	5
<i>Empididae</i>	Dance Fly	L	10	6
<i>Hyalellidae</i>	Sideswimmer	A	1	8
<i>Leptophlebiidae</i>	Mayfly	N	1	4
<i>Leuctridae</i>	Stonefly	N	30	0
<i>Limnephilidae</i>	Northern Caddisfly	L	1	4
<i>Nemouridae</i>	Stonefly	N	1	2
<i>Oligochaeta</i>	Aquatic Worm	A	4	8
<i>Pisidiidae</i>	Fingernail Clam	A	12	6
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	1	1
<i>Simuliidae</i>	Black Fly	L	11	5
<i>Tipulidae</i>	Crane Fly	L	1	4

Stream Health Fair Family Biotic Index 5.02

Sampled - 5/30/2006

REP: 1

<i>Acariformes</i>	Water Mite	A	7	6
<i>Baetidae</i>	Small Mayfly	N	48	6
<i>Capniidae</i>	Stonefly	N	18	3
<i>Ceratopogonidae</i>	Biting Midge	L	3	6
<i>Chironomidae</i>	Midge	P	3	6
<i>Chironomidae</i>	Midge	L	159	6
<i>Elmidae</i>	Riffle Beetle	L	60	5
<i>Elmidae</i>	Riffle Beetle	A	4	5
<i>Empididae</i>	Dance Fly	L	11	6
<i>Gammaridae</i>	Sideswimmer	A	1	6
<i>Hydroptilidae</i>	Micro-caddisfly	L	2	6
<i>Leuctridae</i>	Stonefly	N	14	0
<i>Lymnaeidae</i>	Pond Snail	A	1	6
<i>Nemouridae</i>	Stonefly	N	3	2
<i>Oligochaeta</i>	Aquatic Worm	A	2	8
<i>Pisidiidae</i>	Fingernail Clam	A	11	6
<i>Simuliidae</i>	Black Fly	L	11	5
<i>Tabanidae</i>	Horse Fly	L	1	5
<i>Taeniopterygidae</i>	Stonefly	N	3	2

Stream Health Fair Family Biotic Index 5.35

Sampled - 10/6/2006

REP: 1

<i>Acariformes</i>	Water Mite	A	12	6
<i>Asellidae</i>	Sow Bug	A	1	8
<i>Caenidae</i>	Crawling Mayfly	N	1	6
<i>Chironomidae</i>	Midge	L	117	6
<i>Chironomidae</i>	Midge	P	20	6
<i>Elmidae</i>	Riffle Beetle	L	48	5
<i>Elmidae</i>	Riffle Beetle	A	1	5
<i>Empididae</i>	Dance Fly	L	5	6
<i>Hyalellidae</i>	Sideswimmer	A	20	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	8	5
<i>Hydroptilidae</i>	Micro-caddisfly	L	2	6
<i>Hydroptilidae</i>	Micro-caddisfly	P	1	6
<i>Leptophlebiidae</i>	Mayfly	N	5	4
<i>Leuctridae</i>	Stonefly	N	2	0

Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
<i>Limnephilidae</i>	Northern Caddisfly	L	2	4
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	30	2
<i>Oligochaeta</i>	Aquatic Worm	A	3	8
<i>Physidae</i>	Pouch Snail	A	8	8
<i>Pisidiidae</i>	Fingemail Clam	A	11	6
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	1	1
<i>Simuliidae</i>	Black Fly	L	1	5
<i>Tipulidae</i>	Crane Fly	L	1	4

Stream Health Fair Family Biotic Index 5.51

Sampled - 5/30/2007

REP: 1

<i>Acariformes</i>	Water Mite	A	3	6
<i>Baetidae</i>	Small Mayfly	N	34	6
<i>Capniidae</i>	Stonefly	N	40	3
<i>Ceratopogonidae</i>	Biting Midge	L	2	6
<i>Chironomidae</i>	Midge	P	9	6
<i>Chironomidae</i>	Midge	L	170	6
<i>Elmidae</i>	Riffle Beetle	A	2	5
<i>Elmidae</i>	Riffle Beetle	L	49	5
<i>Empididae</i>	Dance Fly	L	10	6
<i>Gomphidae</i>	Clubtail Dragonfly	N	1	4
<i>Hyalellidae</i>	Sideswimmer	A	3	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	3	5
<i>Leptohyphidae</i>	Crawling Mayfly	N	1	4
<i>Limnephilidae</i>	Northern Caddisfly	L	1	4
<i>Nemouridae</i>	Stonefly	N	3	2
<i>Oligochaeta</i>	Aquatic Worm	A	2	8
<i>Pisidiidae</i>	Fingemail Clam	A	3	6
<i>Simuliidae</i>	Black Fly	L	11	5
<i>Taeniopterygidae</i>	Stonefly	N	1	2
<i>Tipulidae</i>	Crane Fly	L	3	4

Stream Health Fair Family Biotic Index 5.42

Sampled - 10/1/2007

REP: 1

<i>Acariformes</i>	Water Mite	A	10	6
<i>Baetidae</i>	Small Mayfly	N	3	6
<i>Caenidae</i>	Crawling Mayfly	N	1	6
<i>Capniidae</i>	Stonefly	N	2	3
<i>Chironomidae</i>	Midge	P	19	6
<i>Chironomidae</i>	Midge	L	166	6
<i>Elmidae</i>	Riffle Beetle	L	27	5
<i>Empididae</i>	Dance Fly	L	3	6
<i>Gammaridae</i>	Sideswimmer	A	7	6
<i>Heptageniidae</i>	Stream Mayfly	N	1	3
<i>Hyalellidae</i>	Sideswimmer	A	10	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	9	5
<i>Leptophlebiidae</i>	Mayfly	N	6	4
<i>Limnephilidae</i>	Northern Caddisfly	L	3	4
<i>Muscidae</i>	Muscid Fly	L	6	6
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	7	2
<i>Oligochaeta</i>	Aquatic Worm	A	2	8
<i>Physidae</i>	Pouch Snail	A	4	8
<i>Pisidiidae</i>	Fingemail Clam	A	1	6
<i>Pyralidae</i>	Pyralid Moth	L	1	5

Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	10	1
<i>Simuliidae</i>	Black Fly	L	1	5
<i>Taeniopterygidae</i>	Stonefly	N	3	2
<i>Tipulidae</i>	Crane Fly	L	1	4
Stream Health		Fair	Family Biotic Index	5.59

Sampled - 5/28/2008

REP: 1

<i>Acariformes</i>	Water Mite	A	6	6
<i>Baetidae</i>	Small Mayfly	N	18	6
<i>Capniidae</i>	Stonefly	N	16	3
<i>Chironomidae</i>	Midge	L	155	6
<i>Chironomidae</i>	Midge	P	9	6
<i>Dytiscidae</i>	Predacious Diving Beetle	L	1	5
<i>Elmidae</i>	Riffle Beetle	A	9	5
<i>Elmidae</i>	Riffle Beetle	L	26	5
<i>Empididae</i>	Dance Fly	L	6	6
<i>Hyalellidae</i>	Sideswimmer	A	2	8
<i>Limnephilidae</i>	Northern Caddisfly	L	1	4
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	8	2
<i>Oligochaeta</i>	Aquatic Worm	A	6	8
<i>Perlodidae</i>	Stonefly	N	1	2
<i>Philopotamidae</i>	Finger-net Caddisfly	L	1	4
<i>Pisidiidae</i>	Fingernail Clam	A	11	6
<i>Simuliidae</i>	Black Fly	L	10	5
Stream Health		Fair	Family Biotic Index	5.59

Sampled - 10/3/2008

REP: 1

<i>Acariformes</i>	Water Mite	A	22	6
<i>Caenidae</i>	Crawling Mayfly	N	1	6
<i>Capniidae</i>	Stonefly	N	2	3
<i>Ceratopogonidae</i>	Biting Midge	L	4	6
<i>Chironomidae</i>	Midge	L	115	6
<i>Chironomidae</i>	Midge	P	15	6
<i>Elmidae</i>	Riffle Beetle	L	53	5
<i>Elmidae</i>	Riffle Beetle	A	1	5
<i>Empididae</i>	Dance Fly	L	10	6
<i>Gammaridae</i>	Sideswimmer	A	10	6
<i>Glossosomatidae</i>	Caddisfly	L	1	1
<i>Hyalellidae</i>	Sideswimmer	A	9	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	22	5
<i>Lepidostomatidae</i>	<i>Lepidostomatid</i> Caddisfly	L	6	1
<i>Leptoceridae</i>	Long-horned Caddisfly	L	1	4
<i>Leptophlebiidae</i>	Mayfly	N	8	4
<i>Molannidae</i>		L	1	6
<i>Nematoda</i>	Thread Worm	A	4	5
<i>Nemouridae</i>	Stonefly	N	10	2
<i>Oligochaeta</i>	Aquatic Worm	A	4	8
<i>Physidae</i>	Pouch Snail	A	1	8
<i>Pisidiidae</i>	Fingernail Clam	A	6	6
<i>Planorbidae</i>	Orb Snail	A	1	6
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	16	1
<i>Taeniopterygidae</i>	Stonefly	N	5	2
<i>Turbellaria</i>	Flatworm	A	2	6
Stream Health		Fair	Family Biotic Index	5.24

Sampled - 6/9/2009

		REP:	1	
<i>Acariformes</i>	Water Mite	A	4	6
<i>Baetidae</i>	Small Mayfly	N	44	6
<i>Capniidae</i>	Stonefly	N	18	3
<i>Ceratopogonidae</i>	Biting Midge	L	7	6
<i>Chironomidae</i>	Midge	P	7	6
<i>Chironomidae</i>	Midge	L	186	6
<i>Corixidae</i>	Water Boatmen	A	1	5
<i>Dytiscidae</i>	Predacious Diving Beetle	L	1	5
<i>Elmidae</i>	Riffle Beetle	A	2	5
<i>Elmidae</i>	Riffle Beetle	L	4	5
<i>Empididae</i>	Dance Fly	L	2	6
<i>Heptageniidae</i>	Stream Mayfly	N	3	3
<i>Hyalellidae</i>	Sideswimmer	A	1	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	3	5
<i>Hydroptilidae</i>	Micro-caddisfly	L	2	6
<i>Muscidae</i>	Muscid Fly	L	1	6
<i>Nematoda</i>	Thread Worm	A	3	5
<i>Oligochaeta</i>	Aquatic Worm	A	12	8
<i>Pisidiidae</i>	Fingemail Clam	A	3	6
<i>Simuliidae</i>	Black Fly	L	63	5
<i>Taeniopterygidae</i>	Stonefly	N	1	2
<i>Tipulidae</i>	Crane Fly	L	1	4
Stream Health		Fair	Family Biotic Index	5.67

Sampled - 9/29/2009

		REP:	1	
<i>Acariformes</i>	Water Mite	A	6	6
<i>Baetidae</i>	Small Mayfly	N	2	6
<i>Caenidae</i>	Crawling Mayfly	N	2	6
<i>Ceratopogonidae</i>	Biting Midge	L	3	6
<i>Chironomidae</i>	Midge	L	208	6
<i>Chironomidae</i>	Midge	P	14	6
<i>Elmidae</i>	Riffle Beetle	L	39	5
<i>Elmidae</i>	Riffle Beetle	A	2	5
<i>Empididae</i>	Dance Fly	L	9	6
<i>Gammaridae</i>	Sideswimmer	A	4	6
<i>Hyalellidae</i>	Sideswimmer	A	1	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	16	5
<i>Limnephilidae</i>	Northern Caddisfly	L	2	4
<i>Nematoda</i>	Thread Worm	A	7	5
<i>Nemouridae</i>	Stonefly	N	1	2
<i>Oligochaeta</i>	Aquatic Worm	A	1	8
<i>Pisidiidae</i>	Fingemail Clam	A	3	6
<i>Planorbidae</i>	Orb Snail	A	1	6
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	2	1
<i>Simuliidae</i>	Black Fly	L	1	5
<i>Taeniopterygidae</i>	Stonefly	N	4	2
Stream Health		Fair	Family Biotic Index	5.71

Sampled - 5/18/2010

		REP:	1	
<i>Acariformes</i>	Water Mite	A	9	6
<i>Baetidae</i>	Small Mayfly	N	27	6
<i>Capniidae</i>	Stonefly	N	47	3
<i>Chironomidae</i>	Midge	L	80	6

<i>Chironomidae</i>	Midge	P	6	6
<i>Dytiscidae</i>	Predacious Diving Beetle	L	1	5
<i>Elmidae</i>	Riffle Beetle	A	7	5
<i>Elmidae</i>	Riffle Beetle	L	38	5
<i>Empididae</i>	Dance Fly	L	8	6
<i>Heptageniidae</i>	Stream Mayfly	N	1	3
<i>Hyalellidae</i>	Sideswimmer	A	1	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	1	5
<i>Lepidostomatidae</i>	<i>Lepistomatid</i> Caddisfly	L	1	1
<i>Limnephilidae</i>	Northern Caddisfly	L	6	4
<i>Nematoda</i>	Thread Worm	A	10	5
<i>Nemouridae</i>	Stonefly	N	16	2
<i>Oligochaeta</i>	Aquatic Worm	A	5	8
<i>Philopotamidae</i>	Finger-net Caddisfly	L	1	4
<i>Pisidiidae</i>	Fingemail Clam	A	5	6
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	2	1
<i>Simuliidae</i>	Black Fly	P	4	5
<i>Simuliidae</i>	Black Fly	L	29	5
<i>Taeniopterygidae</i>	Stonefly	N	1	2
<i>Tipulidae</i>	Crane Fly	L	1	4
<i>Veliidae</i>	Ripple Bug	A	1	-1

Stream Health Good Family Biotic Index 4.94

Sampled - 6/15/2010

REP: 2

<i>Acariformes</i>	Water Mite	A	4	6
<i>Baetidae</i>	Small Mayfly	N	28	6
<i>Capniidae</i>	Stonefly	N	24	3
<i>Ceratopogonidae</i>	Biting Midge	L	2	6
<i>Chironomidae</i>	Midge	L	163	6
<i>Chironomidae</i>	Midge	P	4	6
<i>Chloroperlidae</i>	Stonefly	N	1	0
<i>Dytiscidae</i>	Predacious Diving Beetle	L	2	5
<i>Elmidae</i>	Riffle Beetle	L	28	5
<i>Elmidae</i>	Riffle Beetle	A	2	5
<i>Empididae</i>	Dance Fly	L	12	6
<i>Hydroptilidae</i>	Micro-caddisfly	L	2	6
<i>Lepidostomatidae</i>	<i>Lepistomatid</i> Caddisfly	L	2	1
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	3	2
<i>Oligochaeta</i>	Aquatic Worm	A	5	8
<i>Pisidiidae</i>	Fingemail Clam	A	2	6
<i>Simuliidae</i>	Black Fly	L	28	5
<i>Tipulidae</i>	Crane Fly	L	2	4

Stream Health Fair Family Biotic Index 5.51

Sampled - 10/5/2010

REP: 1

<i>Acariformes</i>	Water Mite	A	24	6
<i>Baetidae</i>	Small Mayfly	N	3	6
<i>Ceratopogonidae</i>	Biting Midge	L	2	6
<i>Chironomidae</i>	Midge	P	14	6
<i>Chironomidae</i>	Midge	L	124	6
<i>Elmidae</i>	Riffle Beetle	L	52	5
<i>Elmidae</i>	Riffle Beetle	A	2	5
<i>Empididae</i>	Dance Fly	L	8	6
<i>Hyalellidae</i>	Sideswimmer	A	6	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	57	5

<i>Hydroptilidae</i>	Micro-caddisfly	L	1	6
<i>Lepidostomatidae</i>	<i>Lepidostatid</i> Caddisfly	L	2	1
<i>Leptophlebiidae</i>	Mayfly	N	1	4
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	7	2
<i>Oligochaeta</i>	Aquatic Worm	A	3	8
<i>Philopotamidae</i>	Finger-net Caddisfly	L	3	4
<i>Pisidiidae</i>	Fingernail Clam	A	4	6
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	5	1
<i>Sialidae</i>	Alderfly	N	1	4
<i>Simuliidae</i>	Black Fly	L	2	5
<i>Taeniopterygidae</i>	Stonefly	N	6	2
<i>Tipulidae</i>	Crane Fly	L	2	4
	Stream Health	Fair	Family Biotic Index	5.40

Sampled - 5/10/2011

	REP: 1			
<i>Acariformes</i>	Water Mite	A	15	6
<i>Baetidae</i>	Small Mayfly	N	28	6
<i>Capniidae</i>	Stonefly	N	62	3
<i>Ceratopogonidae</i>	Biting Midge	L	1	6
<i>Chironomidae</i>	Midge	L	63	6
<i>Chironomidae</i>	Midge	P	7	6
<i>Elmidae</i>	Riffle Beetle	A	9	5
<i>Elmidae</i>	Riffle Beetle	L	48	5
<i>Empididae</i>	Dance Fly	P	1	6
<i>Empididae</i>	Dance Fly	L	12	6
<i>Hyalellidae</i>	Sideswimmer	A	8	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	1	5
<i>Lepidostomatidae</i>	<i>Lepidostatid</i> Caddisfly	L	7	1
<i>Limnephilidae</i>	Northern Caddisfly	L	3	4
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	42	2
<i>Oligochaeta</i>	Aquatic Worm	A	7	8
<i>Physidae</i>	Pouch Snail	A	1	8
<i>Pisidiidae</i>	Fingernail Clam	A	2	6
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	1	1
<i>Tipulidae</i>	Crane Fly	L	4	4
	Stream Health	Good	Family Biotic Index	4.65

Sampled - 9/28/2011

	REP: 1			
<i>Acariformes</i>	Water Mite	A	21	6
<i>Baetidae</i>	Small Mayfly	N	1	6
<i>Caenidae</i>	Crawling Mayfly	N	1	6
<i>Ceratopogonidae</i>	Biting Midge	L	1	6
<i>Chironomidae</i>	Midge	P	21	6
<i>Chironomidae</i>	Midge	L	201	6
<i>Elmidae</i>	Riffle Beetle	L	14	5
<i>Empididae</i>	Dance Fly	L	8	6
<i>Hyalellidae</i>	Sideswimmer	A	8	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	7	5
<i>Lepidostomatidae</i>	<i>Lepidostatid</i> Caddisfly	L	1	1
<i>Leptophlebiidae</i>	Mayfly	N	2	4
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	3	2
<i>Oligochaeta</i>	Aquatic Worm	A	5	8
<i>Pisidiidae</i>	Fingernail Clam	A	3	6

Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	3	1
<i>Taeniopterygidae</i>	Stonefly	N	4	2
<i>Tipulidae</i>	Crane Fly	L	1	4

Stream Health Fairly Poor Family Biotic Index 5.84

Sampled - 5/9/2012

REP: 1

<i>Acariformes</i>	Water Mite	A	11	6
<i>Asellidae</i>	Sow Bug	A	10	8
<i>Baetidae</i>	Small Mayfly	N	41	6
<i>Capniidae</i>	Stonefly	N	22	3
<i>Ceratopogonidae</i>	Biting Midge	L	3	6
<i>Chironomidae</i>	Midge	L	151	6
<i>Chironomidae</i>	Midge	P	1	6
<i>Dytiscidae</i>	Predacious Diving Beetle	A	2	5
<i>Elmidae</i>	Riffle Beetle	L	30	5
<i>Elmidae</i>	Riffle Beetle	A	6	5
<i>Empididae</i>	Dance Fly	L	8	6
<i>Gammaridae</i>	Sideswimmer	A	2	6
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	1	5
<i>Hydroptilidae</i>	Micro-caddisfly	L	1	6
<i>Lepidostomatidae</i>	<i>Lepidostatid</i> Caddisfly	L	1	1
<i>Leuctridae</i>	Stonefly	N	14	0
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	47	2
<i>Oligochaeta</i>	Aquatic Worm	A	1	8
<i>Philopotamidae</i>	Finger-net Caddisfly	L	8	4
<i>Pisidiidae</i>	Fingemail Clam	A	3	6
<i>Simuliidae</i>	Black Fly	L	6	5
<i>Simuliidae</i>	Black Fly	P	1	5
<i>Tipulidae</i>	Crane Fly	L	1	4

Stream Health Good Family Biotic Index 4.96

Sampled - 9/26/2012

REP: 1

<i>Acariformes</i>	Water Mite	A	12	6
<i>Asellidae</i>	Sow Bug	A	58	8
<i>Baetidae</i>	Small Mayfly	N	18	6
<i>Capniidae</i>	Stonefly	N	2	3
<i>Chironomidae</i>	Midge	P	5	6
<i>Chironomidae</i>	Midge	L	117	6
<i>Elmidae</i>	Riffle Beetle	A	1	5
<i>Elmidae</i>	Riffle Beetle	L	26	5
<i>Empididae</i>	Dance Fly	L	4	6
<i>Gammaridae</i>	Sideswimmer	A	5	6
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	43	5
<i>Leptoceridae</i>	Long-horned Caddisfly	P	1	4
<i>Nemouridae</i>	Stonefly	N	7	2
<i>Philopotamidae</i>	Finger-net Caddisfly	L	2	4
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	1	1
<i>Simuliidae</i>	Black Fly	L	7	5

Stream Health Fairly Poor Family Biotic Index 5.98

Sampled - 2/13/2013

REP: 1

<i>Acariformes</i>	Water Mite	A	5	6
<i>Asellidae</i>	Sow Bug	A	37	8
<i>Baetidae</i>	Small Mayfly	N	28	6

Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
Capniidae	Stonefly	N	7	3
Chironomidae	Midge	L	114	6
Elmidae	Riffle Beetle	A	3	5
Elmidae	Riffle Beetle	L	11	5
Empididae	Dance Fly	L	6	6
Hydropsychidae	Net-spinning Caddisfly	L	2	5
Lepidostomatidae	Lepistomatid Caddisfly	L	10	1
Limnephilidae	Northern Caddisfly	L	1	4
Nemouridae	Stonefly	N	65	2
Oligochaeta	Aquatic Worm	A	1	8
Perlodidae	Stonefly	N	1	2
Physidae	Pouch Snail	A	1	8
Rhyacophilidae	Primitive Caddisfly	L	5	1
Simuliidae	Black Fly	L	6	5
Tabanidae	Horse Fly	L	1	5
Taeniopterygidae	Stonefly	N	1	2
Tipulidae	Crane Fly	L	2	4
Turbellaria	Flatworm	A	1	6
Uenoidae	Caddisfly	L	5	3
	Stream Health	Good	Family Biotic Index	4.95

Sampled - 5/3/2013

REP: 1				
Acariformes	Water Mite	P	3	6
Asellidae	Sow Bug	A	25	8
Baetidae	Small Mayfly	N	17	6
Capniidae	Stonefly	N	16	3
Chironomidae	Midge	P	3	6
Chironomidae	Midge	L	79	6
Crangonyctidae	Sideswimmer	A	1	6
Elmidae	Riffle Beetle	A	6	5
Elmidae	Riffle Beetle	L	22	5
Empididae	Dance Fly	L	7	6
Hyalellidae	Sideswimmer	A	2	8
Hydropsychidae	Net-spinning Caddisfly	L	2	5
Lepidostomatidae	Lepistomatid Caddisfly	L	7	1
Limnephilidae	Northern Caddisfly	L	5	4
Nematoda	Thread Worm	A	2	5
Nemouridae	Stonefly	N	61	2
Oligochaeta	Aquatic Worm	A	6	8
Physidae	Pouch Snail	A	1	8
Pisidiidae	Fingemail Clam	A	1	6
Psychodidae	Sand Fly	L	1	10
Rhyacophilidae	Primitive Caddisfly	L	1	1
Simuliidae	Black Fly	L	38	5
Simuliidae	Black Fly	P	5	5
Tipulidae	Crane Fly	L	5	4
Uenoidae	Caddisfly	L	4	3
	Stream Health	Good	Family Biotic Index	4.85

Sampled - 9/27/2013

REP: 1				
Acariformes	Water Mite	A	8	6
Asellidae	Sow Bug	A	156	8
Baetidae	Small Mayfly	N	2	6
Caenidae	Crawling Mayfly	N	2	6
Chironomidae	Midge	L	36	6
Chironomidae	Midge	P	7	6

Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
<i>Collembola</i>	Springtail	A	2	5
<i>Dixidae</i>	Dixa Fly	L	1	1
<i>Elmidae</i>	Riffle Beetle	A	8	5
<i>Elmidae</i>	Riffle Beetle	L	34	5
<i>Empididae</i>	Dance Fly	L	9	6
<i>Glossosomatidae</i>	Caddisfly	L	1	1
<i>Heptageniidae</i>	Stream Mayfly	N	1	3
<i>Hyalellidae</i>	Sideswimmer	A	3	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	39	5
<i>Lepidostomatidae</i>	<i>Lepidostatid</i> Caddisfly	L	1	1
<i>Limnephilidae</i>	Northern Caddisfly	L	2	4
<i>Nemouridae</i>	Stonefly	N	7	2
<i>Oligochaeta</i>	Aquatic Worm	A	3	8
<i>Physidae</i>	Pouch Snail	A	2	8
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	1	1
<i>Simuliidae</i>	Black Fly	L	1	5
<i>Tabanidae</i>	Horse Fly	L	1	5
<i>Tipulidae</i>	Crane Fly	L	1	4

Stream Health Poor Family Biotic Index 6.57

Sampled - 5/8/2014

REP: 1

<i>Acariformes</i>	Water Mite	A	6	6
<i>Asellidae</i>	Sow Bug	A	25	8
<i>Baetidae</i>	Small Mayfly	N	11	6
<i>Capniidae</i>	Stonefly	N	33	3
<i>Ceratopogonidae</i>	Biting Midge	L	1	6
<i>Chironomidae</i>	Midge	L	14	6
<i>Dytiscidae</i>	Predacious Diving Beetle	L	1	5
<i>Elmidae</i>	Riffle Beetle	A	9	5
<i>Elmidae</i>	Riffle Beetle	L	50	5
<i>Empididae</i>	Dance Fly	L	29	6
<i>Glossosomatidae</i>	Caddisfly	L	2	1
<i>Halipidae</i>	Crawling Water Beetle	A	1	5
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	2	5
<i>Lepidostomatidae</i>	<i>Lepidostatid</i> Caddisfly	L	1	1
<i>Limnephilidae</i>	Northern Caddisfly	L	2	4
<i>Nematoda</i>	Thread Worm	A	7	5
<i>Nemouridae</i>	Stonefly	N	72	2
<i>Oligochaeta</i>	Aquatic Worm	A	13	8
<i>Perlodidae</i>	Stonefly	N	3	2
<i>Pisidiidae</i>	Fingemail Clam	A	1	6
<i>Planorbidae</i>	Orb Snail	A	1	6
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	4	1
<i>Simuliidae</i>	Black Fly	L	28	5
<i>Simuliidae</i>	Black Fly	P	1	5
<i>Tabanidae</i>	Horse Fly	L	2	5
<i>Uenoidae</i>	Caddisfly	L	6	3

Stream Health Good Family Biotic Index 4.52

Sampled - 9/26/2014

REP: 1

<i>Acariformes</i>	Water Mite	A	6	6
<i>Asellidae</i>	Sow Bug	A	41	8
<i>Baetidae</i>	Small Mayfly	N	12	6
<i>Chironomidae</i>	Midge	L	72	6
<i>Chironomidae</i>	Midge	P	10	6
<i>Elmidae</i>	Riffle Beetle	L	38	5

Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
<i>Elmidae</i>	Riffle Beetle	A	2	5
<i>Empididae</i>	Dance Fly	L	13	6
<i>Glossosomatidae</i>	Caddisfly	L	6	1
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	73	5
<i>Lepidostomatidae</i>	<i>Lepidostatid</i> Caddisfly	L	4	1
<i>Leptophlebiidae</i>	Mayfly	N	3	4
<i>Limnephilidae</i>	Northern Caddisfly	L	1	4
<i>Nemouridae</i>	Stonefly	N	17	2
<i>Oligochaeta</i>	Aquatic Worm	A	3	8
<i>Philopotamidae</i>	Finger-net Caddisfly	L	1	4
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	8	1
<i>Simuliidae</i>	Black Fly	L	3	5
<i>Tipulidae</i>	Crane Fly	L	1	4
<i>Turbellaria</i>	Flatworm	A	1	6
Stream Health		Fair	Family Biotic Index	5.37

Sampled - 5/8/2015

REP: 1				
<i>Acariformes</i>	Water Mite	A	2	6
<i>Asellidae</i>	Sow Bug	A	6	8
<i>Baetidae</i>	Small Mayfly	N	54	6
<i>Capniidae</i>	Stonefly	N	36	3
<i>Ceratopogonidae</i>	Biting Midge	L	2	6
<i>Chironomidae</i>	Midge	L	26	6
<i>Dytiscidae</i>	Predacious Diving Beetle	L	1	5
<i>Elmidae</i>	Riffle Beetle	L	32	5
<i>Elmidae</i>	Riffle Beetle	A	8	5
<i>Empididae</i>	Dance Fly	L	48	6
<i>Heptageniidae</i>	Stream Mayfly	N	1	3
<i>Hyalellidae</i>	Sideswimmer	A	1	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	4	5
<i>Lepidostomatidae</i>	<i>Lepidostatid</i> Caddisfly	L	10	1
<i>Limnephilidae</i>	Northern Caddisfly	L	3	4
<i>Nematoda</i>	Thread Worm	A	6	5
<i>Nemouridae</i>	Stonefly	N	48	2
<i>Oligochaeta</i>	Aquatic Worm	A	5	8
<i>Philopotamidae</i>	Finger-net Caddisfly	L	1	4
<i>Pisidiidae</i>	Fingernail Clam	A	2	6
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	1	1
<i>Simuliidae</i>	Black Fly	L	21	5
<i>Simuliidae</i>	Black Fly	P	4	5
<i>Tabanidae</i>	Horse Fly	L	1	5
<i>Tipulidae</i>	Crane Fly	L	2	4
<i>Uenoidae</i>	Caddisfly	L	3	3
Stream Health		Good	Family Biotic Index	4.68

Sampled - 9/23/2015

REP: 1				
<i>Asellidae</i>	Sow Bug	A	27	8
<i>Baetidae</i>	Small Mayfly	N	15	6
<i>Capniidae</i>	Stonefly	N	2	3
<i>Chironomidae</i>	Midge	L	138	6
<i>Chironomidae</i>	Midge	P	8	6
<i>Elmidae</i>	Riffle Beetle	A	4	5
<i>Elmidae</i>	Riffle Beetle	L	56	5
<i>Empididae</i>	Dance Fly	P	1	6
<i>Empididae</i>	Dance Fly	L	10	6
<i>Glossosomatidae</i>	Caddisfly	L	3	1

Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
<i>Hyalellidae</i>	Sideswimmer	A	1	8
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	36	5
<i>Hydroptilidae</i>	Micro-caddisfly	L	3	6
<i>Limnephilidae</i>	Northern Caddisfly	L	4	4
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Nemouridae</i>	Stonefly	N	14	2
<i>Oligochaeta</i>	Aquatic Worm	A	3	8
<i>Perlodidae</i>	Stonefly	N	2	2
<i>Philopotamidae</i>	Finger-net Caddisfly	L	1	4
<i>Pisidiidae</i>	Fingernail Clam	A	1	6
<i>Planorbidae</i>	Orb Snail	A	1	6
<i>Rhyacophilidae</i>	Primitive Caddisfly	L	4	1
<i>Simuliidae</i>	Black Fly	P	1	5
<i>Simuliidae</i>	Black Fly	L	5	5
<i>Tabanidae</i>	Horse Fly	L	1	5
<i>Tipulidae</i>	Crane Fly	L	2	4
Stream Health		Fair	Family Biotic Index	5.53

Harrington Creek downstream of dam

Site code: TR41

UTM X: 500623

UTM Y: 4787599

Sampled - 10/18/2010

REP: 1

<i>Acariformes</i>	Water Mite	A	10	6
<i>Brachycentridae</i>	Brachycentrid Caddisfly	L	1	2
<i>Chironomidae</i>	Midge	P	29	6
<i>Elmidae</i>	Riffle Beetle	A	1	5
<i>Elmidae</i>	Riffle Beetle	L	22	5
<i>Empididae</i>	Dance Fly	L	2	6
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	99	5
<i>Nematoda</i>	Thread Worm	A	3	5
<i>Oligochaeta</i>	Aquatic Worm	A	6	8
<i>Philopotamidae</i>	Finger-net Caddisfly	L	19	4
<i>Pisidiidae</i>	Fingernail Clam	A	13	6
<i>Simuliidae</i>	Black Fly	L	20	5
<i>Tipulidae</i>	Crane Fly	L	2	4
<i>Turbellaria</i>	Flatworm	A	81	6
<i>Veliidae</i>	Ripple Bug	A	1	-1
Stream Health		Fair	Family Biotic Index	5.40

Sampled - 5/8/2015

REP: 1

<i>Acariformes</i>	Water Mite	A	4	6
<i>Asellidae</i>	Sow Bug	A	9	8
<i>Baetidae</i>	Small Mayfly	N	1	6
<i>Capniidae</i>	Stonefly	N	1	3
<i>Ceratopogonidae</i>	Biting Midge	L	1	6
<i>Chironomidae</i>	Midge	P	4	6
<i>Chironomidae</i>	Midge	L	54	6
<i>Elmidae</i>	Riffle Beetle	L	30	5
<i>Empididae</i>	Dance Fly	L	5	6
<i>Helicopsychidae</i>	Snail-case Caddisfly	L	5	3
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	20	5
<i>Leptoceridae</i>	Long-horned Caddisfly	L	1	4
<i>Nematoda</i>	Thread Worm	A	1	5
<i>Oligochaeta</i>	Aquatic Worm	A	147	8
<i>Perlodidae</i>	Stonefly	N	1	2
<i>Philopotamidae</i>	Finger-net Caddisfly	L	1	4

Taxonomic Name	Common Name	Life Stage	# in Subsample	Biotic Index
<i>Pisidiidae</i>	Fingernail Clam	A	20	6
<i>Simuliidae</i>	Black Fly	L	3	5
<i>Turbellaria</i>	Flatworm	A	11	6
Stream Health		Poor	Family Biotic Index	
				6.73

Sampled - 9/23/2015

REP: 1

<i>Acariformes</i>	Water Mite	A	2	6
<i>Asellidae</i>	Sow Bug	A	4	8
<i>Baetidae</i>	Small Mayfly	N	4	6
<i>Chironomidae</i>	Midge	P	1	6
<i>Chironomidae</i>	Midge	L	34	6
<i>Elmidae</i>	Riffle Beetle	A	1	5
<i>Elmidae</i>	Riffle Beetle	L	28	5
<i>Hydropsychidae</i>	Net-spinning Caddisfly	L	93	5
<i>Nemouridae</i>	Stonefly	N	1	2
<i>Oligochaeta</i>	Aquatic Worm	A	19	8
<i>Philopotamidae</i>	Finger-net Caddisfly	L	4	4
<i>Pisidiidae</i>	Fingernail Clam	A	19	6
<i>Simuliidae</i>	Black Fly	L	5	5
<i>Tipulidae</i>	Crane Fly	L	1	4
<i>Turbellaria</i>	Flatworm	A	112	6
Stream Health		Fair	Family Biotic Index	
				5.71

Benthic Samples were obtained using a Rapid Bioassessment Protocol developed by the United States Environmental Protection Agency and modified by Dr. Robert Bailey of the University of Western Ontario Zoology Department. A representative section of stream is selected, incorporating a riffle if present and sampled by moving upstream along a diagonal transect, dislodging and capturing invertebrates with a .5 mm mesh "D"- frame net.

Samples are preserved in the field and analyzed in the lab to randomly select a 100 bug subsample which is identified to the Family taxonomic level.

The biotic index is a value assigned to benthic invertebrate taxa indicating their pollution sensitivity and tolerance on a scale from 0 to 10. Lower numbers indicate pollution sensitivity and high numbers tolerance. A value of -1 indicates that no biotic index value has been assigned to these taxa.

The Family Biotic Index is the weighted average of the biotic index and number of bugs in each taxa in the sample. The water quality ranges for the FBI values are as follows: < 4.25 = Excellent; 4.25 - 5.00 = Good; 5.00 - 5.75 = Fair; 5.75 - 6.50 = Fairly Poor; 6.50 - 7.25 = Poor; and > 7.25 = Very Poor.

Report prepared - Monday, November 09, 2015

