

Appendix C

Macroinvertebrate Data

For technical summaries prepared by Rhithron Associates (Missoula, Montana) please contact the Washington Conservation District at (651) 275-1136.

Washington Conservation District, MN May 2008		Swedish Flag Creek	Gilbertson Creek	Mill Stream	Willow Brook
Taxon		5/7/2008	5/7/2008	5/7/2008	5/8/2008
Non-insect taxa	<i>Hydra</i>				
	Nematoda		1	1	
	Hirudinea				
	Oligochaeta		1	1	
	<i>Erpobdella</i> - immature				
	Pisidiidae	1			
	<i>Amnicola</i>				
	Lymnaeidae - immature				
	<i>Stagnicola</i>	3			
	<i>Physa</i>	2	8		
	<i>Gyraulus</i>				
	<i>Gammarus</i>	11	88	61	90
	<i>Hyalella</i>				
	<i>Caecidotea</i>	2			
	Acari	5	2	2	2
Odonata	<i>Plathemis</i>				
	<i>Enallagma</i>				
Ephemeroptera	<i>Baetis</i>		98	15	94
	<i>Caenis</i>				
Plecoptera	<i>Nemoura</i>	8	19		
Megaloptera	<i>Nigronia</i>			1	
Trichoptera	<i>Glossosoma</i>				1
	Glossosomatidae - pupa		3		
	<i>Ceratopsyche</i>			35	5
	<i>Cheumatopsyche</i>			6	
	<i>Diplectrona</i>	9			
	<i>Hydropsyche</i>	2			1
	Hydropsychidae - early instar or damaged			6	
	<i>Lepidostoma</i>	4			1
	Limnephilidae - damaged			1	
	<i>Limnephilus</i>				
	<i>Chimarra</i>			1	
	<i>Rhyacophila</i>		1		
	Rhyacophilidae - pupa		2		
	<i>Neophylax</i>	2	8		8
Coleoptera	<i>Helichus</i>				1
	Dytiscidae - larva				
	<i>Optioservus</i>	121		23	15
	<i>Stenelmis</i>			3	
	<i>Haliplus</i>			2	
Diptera	<i>Bezzia / Palpomyia</i>	2			
	<i>Ceratopogon</i>	3			
	Ceratopogoninae - early instar			1	
	<i>Dasyhelea</i>				
	<i>Probezzia</i>	1			
	<i>Serromyia</i>	3			

Washington Conservation District, MN May 2008	Swedish Flag Creek	Gilbertson Creek	Mill Stream	Willow Brook
Taxon	5/7/2008	5/7/2008	5/7/2008	5/8/2008
<i>Hemerodromia</i>			2	
<i>Neoplasta</i>		2		
<i>Prosimulium</i>		18		
Simuliidae - pupa		12		
<i>Simulium</i>	34	14	18	48
<i>Hybomitra</i>				1
<i>Antocha</i>				4
<i>Limnophila</i>	1			
<i>Tipula</i>	3			1
Chironomidae <i>Ablabesmyia</i>				
<i>Chaetocladius</i>				
Chironomini - pupa			1	
<i>Cladopelma</i>				
<i>Corynoneura</i>			1	
<i>Cricotopus</i>	3		4	4
<i>Cricotopus</i> / <i>Orthocladius</i> - damaged	1		1	
<i>Cryptochironomus</i>				
<i>Diamesa</i>	11	6	43	
<i>Dicrotendipes</i>			4	
<i>Endochironomus</i>				
<i>Eukiefferiella</i>	2	6		1
<i>Glyptotendipes</i>				
<i>Hydrobaenus</i>				
<i>Krenosmittia</i>		1		
<i>Limnophyes</i>	1			
<i>Micropsectra</i>	24			22
<i>Nanocladius</i>		1		
Orthoclaadiinae - pupa or damaged	3	10	5	1
Orthoclaadiinae sp. (RAI Taxon # 0004)	1			
<i>Orthocladius</i>				1
<i>Pagastia</i>				3
<i>Parachironomus</i>	2			
<i>Parakiefferiella</i>				
<i>Paramerina</i>				
<i>Parametricnemus</i>	27		17	8
<i>Paratanytarsus</i>			3	
<i>Paratendipes</i>				
<i>Polypedilum</i>	14		30	2
<i>Procladius</i>				
<i>Pseudosmittia</i>				
<i>Rheocricotopus</i>	1	1	3	
<i>Rheotanytarsus</i>	1	1	7	1
<i>Synorthocladius</i>		3		
Tanypodinae - pupa or damaged	1			
Tanytarsini - pupa or damaged	1			
<i>Tanytarsus</i>		2	4	
<i>Thienemanniella</i>				
Thienemannimyia Gr.	12		1	
Tvetenia Bavarica Gr.		5		
<i>Zavrelimyia</i>	2	1		
TOTAL	324	314	303	315

Washington Conservation District, MN September 2008		Swedish Flag Creek	Gilbertson Creek	Mill Stream	Willow Brook
Taxon		9/18/2008	9/18/2008	9/18/2008	9/18/2008
Non-insect taxa	Turbellaria	1			
	Hirudinea	1	1	1	
	Sphaeriidae			1	1
	<i>Fossaria</i>	5			
	<i>Physa</i>	11	23		
	Planorbidae - immature	1			
	Amphipoda - immature	6			
	<i>Gammarus</i>	47	172	131	160
	<i>Caecidotea</i>	6		2	
	Acari	3	1	15	20
Ephemeroptera	Baetidae - damaged				
	<i>Baetis</i>	11	9	8	22
	Leptophlebiidae - damaged	1			
Plecoptera	Capniidae	1	21		
	<i>Amphinemura</i>	1	2		
	Nemouridae - early instar	19	2		
Heteroptera	<i>Belostoma</i>	1			
	<i>Sigara</i>			1	
	<i>Microvelia</i>	5		1	
Megaloptera	<i>Chauliodes</i>				
	<i>Nigronia</i>			1	
Trichoptera	<i>Brachycentrus</i>			1	
	<i>Glossosoma</i>	1	5		1
	Glossosomatidae - pupa				2
	<i>Ceratopsyche</i>			30	2
	<i>Cheumatopsyche</i>			17	2
	<i>Diplectrona</i>	20	3		
	<i>Hydropsyche</i>	17			1
	Hydropsychidae - early instar	20		17	5
	<i>Lepidostoma</i>		3	5	2
	<i>Hesperophylax</i>		5		1
	Limnephilidae - early instar or damaged	1	4		2
	<i>Limnephilus</i>	2	1		
	<i>Ptilostomis</i>	3	1		
	<i>Rhyacophila</i>	1	5		4
	Uenoidae - pupa		1		1
Coleoptera	<i>Helichus</i>			1	
	<i>Agabus</i>		1		
	<i>Laccophilus</i>	3			
	<i>Liodessus</i>	1			
	Elmidae - early instar			10	4
	<i>Optioservus</i>	67		39	8
	<i>Stenelmis</i>	1		13	
	Haliplidae - damaged			1	
	<i>Peltodytes</i>			1	
	Hydrophilidae - larva	1	1		

Washington Conservation District, MN September 2008		Swedish Flag Creek	Gilbertson Creek	Mill Stream	Willow Brook
Taxon		9/18/2008	9/18/2008	9/18/2008	9/18/2008
Diptera	<i>Bezzia / Palpomyia</i>				
	Ceratopogoninae - early instar	2			
	<i>Dixa</i>	4	3		4
	Empididae - damaged			1	
	<i>Hemerodromia</i>			1	
	<i>Neoplasta</i>			1	1
	Ephydriidae				
	Simuliidae - pupa	1	1	5	1
	<i>Simulium</i>	14	37	3	12
	<i>Chrysops</i>	1			
	Tabanidae - early instar	2			
	<i>Antocha</i>			2	1
	<i>Dicranota</i>		3		
	<i>Tipula</i>	2	3	1	12
Chironomidae	<i>Ablabesmyia</i>				
	<i>Brillia</i>				1
	<i>Corynoneura</i>	1			2
	<i>Cryptochironomus</i>	1			
	<i>Eukiefferiella</i>		2	1	1
	<i>Heterotrissocladius</i>		1		1
	<i>Micropsectra</i>				13
	<i>Nanocladius</i>	1			
	<i>Odontomesa</i>		1		
	Orthoclaadiinae - early instar or damaged pupa				
	<i>Pagastia</i>				4
	<i>Paramerina</i>				
	<i>Parametrioctenus</i>	1	1	8	6
	<i>Paratanytarsus</i>				
	<i>Paratendipes</i>	2			1
	<i>Polypedilum</i>	3			
	<i>Rheotanytarsus</i>	1		2	1
	<i>Stictochironomus</i>				1
	Tanypodinae - early instar	2			
	<i>Tanytarsus</i>			1	
	<i>Thienemanniella</i>	1			
	Thienemannimyia Gr.	3			
	<i>Tvetenia</i>	6	4	7	1
	<i>Zavreliella</i>				
TOTAL		306	317	329	301