

Accessory Publication

Table S1. Macroinvertebrate abundance data (0.1 m³) for hyporheic samples during the dry (B) and wet (A) period

Order / family	Drying gradient Time period Site	Wet				A				Reduced connectivity						Dry			
		B		A		B		A		B		A		B		A			
		W1	W2	W3	W4	W1	W2	W3	W4	RC3	RC2	RC3	RC3	RC2	RC3	D1	D2	D1	D2
Oligochaeta		34	202	52	51	54	1188	73	49	32	338	422	492	789	112	4		133	46
Turbellaria			1				6				19	3	3	6					
Gastropoda																			
Ancylidae			2		7	1	1		1		1				26			1	
Lymnaeidae															1		3		
Physidae											1				3				
Planorbidae						8	1							1	1				
Acarina		30	54	4	4	1	53	3	10	30	60	27	32	64	8	18		26	42
Bivalvia																			
Corbiculidae						50				1	1								
Sphaeriidae					7			1	11	1		14		3	12				1
Decapoda																			
Palaemonidae								1						1					
Coleoptera																			
Dytiscidae																	1		
Elmidae		15		14	86		1		48		6	16		1	14	18			2
Hydrochidae												1							
Gyrinidae						20			1										
Hydrophilidae						3						7			2			2	3
Psephenidae												2			2				1
Ptilodactylidae					3				2			1			1				
Scirtidae					2				1		34				89			3	

Diptera																	1	
Athericidae				3											2			
Ceratopogonidae	2	2	7	22			2	9	4	5	54	1	1	20	13		59	37
Chironomidae																		
Aphroteniinae				2				21						1				
Chironominae	28	673	1220	313	1	231	176	442	1585	905	233	955	486	43	23		1691	300
Orthoclaadiinae	135	88	272	57	20	125	150	124	494	444	39	148	397	32	2		42	44
Podonominae					38		19						1	2				
Tanypodinae	6	77	133	48		22	3	26	104	167	136	10	195	64	37		330	80
Culicidae					1						1							
Dixidae				2	5													
Empididae	1	38	20	2		30	20	3	1	60	7	2	23	3	1		7	9
Psychodidae		1			1			2							1		1	1
Simuliidae	89	96	3			520	210		2	250	5	3	67	12			1	
Tanyderidae																	2	
Tipulidae				16				12					2	3		1	4	
Ephemeroptera																		
Baetidae		3							2	1		1	3					
Caenidae		36	247	3		5	16	1	293	97	4	38	93	2				
Coloburiscidae		2			1													
Leptophlebiidae		3	40	7			3	9	3	7	4	2	9	3			12	
Hemiptera																		
Corixidae			1								1							
Megaloptera																		
Corydalidae		1					1	1	7	3		5	1	13			1	2
Odonata																		
Diphlebiidae									1									
Gomphidae									1					3				
Hemicordulidae						1			2									
Synthemistidae				2				3										
Telephlebiidae					7			1	1				1					
Plecoptera					1													
Gripopterygidae		4				3	1			1		3		1			4	3
Trichoptera																		

Calamoceratidae									2						
Calocidae			1				1								
Conoesucidae			11		2		20		36		20				1
Ecnomidae	10	58			9	7		9	22	4	83	2			
Glossosomatidae						7	33					20			1
Helicopsychidae															
Hydrobiosidae		2	1		1		1			1	4				3
Hydropsychidae		10	8			9	8		12	12	1	52			
Hydroptilidae	1	6			1	14	8	14		1	19	2	2	1	8
Leptoceridae	1	3	1	2			2		100		131				1
Philopotamidae								1	1						
Polycentropodidae															2
Tasimiidae							2					3			8

Table S2. Macroinvertebrate abundance data (total count) for surface benthic water samples during the dry (B) and wet (A) period

Order / family	Drying gradient	Wet																Reduced connectivity								Dry			
		B				A				B				A				B		A									
		Time period	W1	W2	W3	W4	W1	W2	W3	W4	RC3	RC2	RC3	RC3	RC2	RC3	D1	D2	D1	D2									
Oligochaeta		45	59	16	29	62	88	47	12	14	125	101	89	92	37	50		46	4										
Turbellaria		5	1			5	2				67	1		1		1													
Gastropoda																													
Ancylidae		1		1	3				1						1														
Lymnaeidae						2									4														
Physidae			1								7																		
Planorbidae						4																							
Acarina		23	28		3	70	6	2	1	34	33		3	10	2	8	3	4	5										
Bivalvia																													
Corbiculidae														1															
Sphaeriidae										4	1		1		1														
Decapoda																													
Palaemonidae				1						4																			
Coleoptera																													
Dytiscidae											1				1														
Elmidae		14		3	25	5		1	17	3	5	2				4			2										
Hydrochidae				1																									
Gyrinidae																													
Hydrophilidae															1														
Psephenidae						1																							
Ptilodactylidae					1				1																				
Scirtidae											4			27															
Diptera																													
Athericidae		1																											
Ceratopogonidae				1	1			1	5	5		4	1		7	4	3	9											
Chironomidae																													
Aphroteniinae					1				7																				
Chironominae		3	80	131	59	6	10	23	73	341	19	18	121	3	35	18		36	3										
Orthocladiinae		48	12	57	21	49	9	21	28	145	54	8	59	14	43	3		2	5										
Podonominae								1	3									3	92										
Tanypodinae			3	4	8	1		1		18	5		3	2	39	5		6	1										
Culicidae																													
Dixidae																													
Empididae		4	4	1		15	6	8	2	1	6	1	1	3	1			1											

