

### **Supplementary information**

In this document we present additional data and analyses. **Part 1** demonstrates the differences among three different methods to describe urban ponds. **Part 2** provides the same analyses as in the main paper but for a subset of sites that exclude sites recorded as “degraded”. **Part 3** contains the tables of species prevalence across urban and non-urban ponds.

## Part 1: Definitions of “urban ponds”

In the main text we characterise urban ponds as those which are located within developed urban land use areas (DLUAs), areas of urban land demarcated by the UK Ordnance Survey mapping authority. However, we acknowledge that there are alternative methods to classify urban ponds and we provide a comparison with two such measures below:

1. Distance to urban area: The distance was calculated between each pond and the nearest urban land use area, where ponds within urban land use areas were allocated a value of 0 km.
2. Urban landcover in a 1 km buffer: Each pond was buffered to a distance of 1 km (a buffer area of 3.14 km<sup>2</sup>) and the proportion of that buffer containing urban land use was calculated.

Figure S1 shows the relationship between a binary categorisation of sites (as used in the main text) and these two alternative measures of urbanness. We further define additional threshold values for “urbanness” based on the distance from urban areas and the percentage of the 1 km buffer containing urban land (Table S1). To test for the sensitivity of our findings to these different definitions of “urban”, we carried out supplementary sensitivity analysis which is presented below for alpha diversity and gamma diversity.

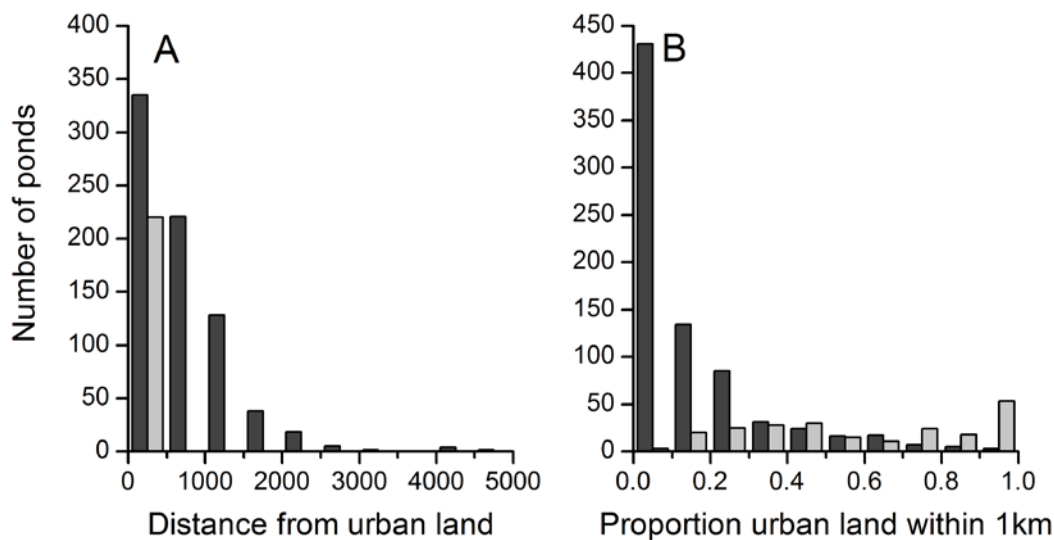


Figure S1: Comparison of three measures of pond classification. (A) shows the distance of each pond from the edge of a developed land use area (DLUA, see main text for details) for “urban” (light grey bar) and “non-urban” (dark grey bar) ponds as classified by their presence inside or outside of the DLUAs. (B) shows the proportion of urban land within a circular buffer of radius 1 km for the urban and non-urban ponds. Note that the urban ponds shown in (A) are all 0 km from urban land as they lie within the DLUAs.

Table S1: Threshold values for the definition of a pond as “urban”, with sample sizes of urban and non-urban pond derived for each threshold.

Assumption	Definitions of urban pond	Species		Family	
		Urban	Non-urban	Urban	Non-urban
1	Within urban land use area	574	203	607	229
2	<500m from urban land use area	448	329	503	333
3	<1000m from urban land use area	628	149	686	150
4	100% urban land cover in 1 km buffer	23	754	28	808
5	>80% urban land cover in 1 km buffer	63	714	81	755
6	>60% urban land cover in 1 km buffer	115	662	140	696
7	>40% urban land cover in 1 km buffer	186	591	230	606
8	>20% urban land cover in 1 km buffer	328	449	379	457

### Alpha diversity

**Methods:** Mann-Whitney U tests were used to test for a difference in recorded taxon number (families and species) in urban and non-urban ponds under several definitions. Spearman rank correlations were used to test for an association between alpha diversity and (i) the distance to the nearest urban land use area, and (ii) the area of

**Results:** There were no significant correlations between alpha diversity at the species level and the distance to urban area ( $\rho=0.053$ ,  $p=0.138$ ) or the percentage of the 1 km containing urban land use area ( $\rho=-0.051$ ,  $p=0.156$ ), or between alpha diversity at a family level and the distance to urban area ( $\rho=-0.018$ ,  $p=0.594$ ) or the percentage of the 1 km containing urban land use area ( $\rho=0.023$ ,  $p=0.511$ ). When ponds were classified as either urban or non-urban according to the criteria in Table S1, there were only two assumptions that produced a significant difference between urban and non-urban species-level richness and both results were only marginally significant ( $p>0.025$ ; Table S2). One of these assumption (4) resulted in only 23 urban ponds compared against 754 non-urban ponds. None of the assumptions produced a significant difference in family-level richness.

Table S2: Sensitivity analysis showing the variation in alpha diversity in ponds categorised as “urban” or “non-urban” using different thresholds (see Table S1 for definitions of the assumptions), with results of Mann-Whitney U-tests.

Taxonomic level	Assumption	Urban alpha	Non-urban alpha	W	p
Species	1	24	27	62043	0.169
	2	26	27	72544	0.709
	3	27	26	45898	0.719
	4	17	27	10996	0.028
	5	22	27	24548	0.229
	6	23	27	39495	0.520
	7	23	27	60841	0.028
	8	25	27	78276	0.133
Family	1	13	13	65476	0.196
	2	13	13	79710	0.237
	3	13	12	46680	0.075
	4	12	13	11716	0.748
	5	13	13	29253	0.521
	6	13	13	46038	0.303
	7	13	13	68562	0.717
	8	13	13	85828	0.824

## Gamma diversity

**Methods:** Gamma diversity was calculated for ponds classified according to the criteria in Table S1 using Chao's estimator from the *specpool* function in the *vegan* (Oskanen *et al.*, 2007) package in R (R Core Team, 2015). Significant differences were evaluated using the overlap of the 95% confidence intervals associated with the estimates of taxonomic richness.

**Results:** There were four assumptions that led to a significant difference (lack of overlap between 95% CIs) in species-level gamma diversity: Assumption 3 suggested a higher number of taxa in urban ponds, while Assumptions 4, 5 and 6 suggested a higher number of taxa in non-urban ponds (Table S3). In each of these cases the sample with the small number of taxa also had a far smaller number of sites (<20% of the number of sites as in the other sample; see Table S1). Indeed, even though the Chao estimator nominally controls for sample size, the Chao value correlates strongly with sample size, suggesting that the only fair comparisons occur when sample sizes are more similar (Assumptions 1, 2, 7 and 8, Figure S2). A similar pattern is also seen in the family data, but only Assumption 4 produced a significant difference between the gamma diversity estimates.

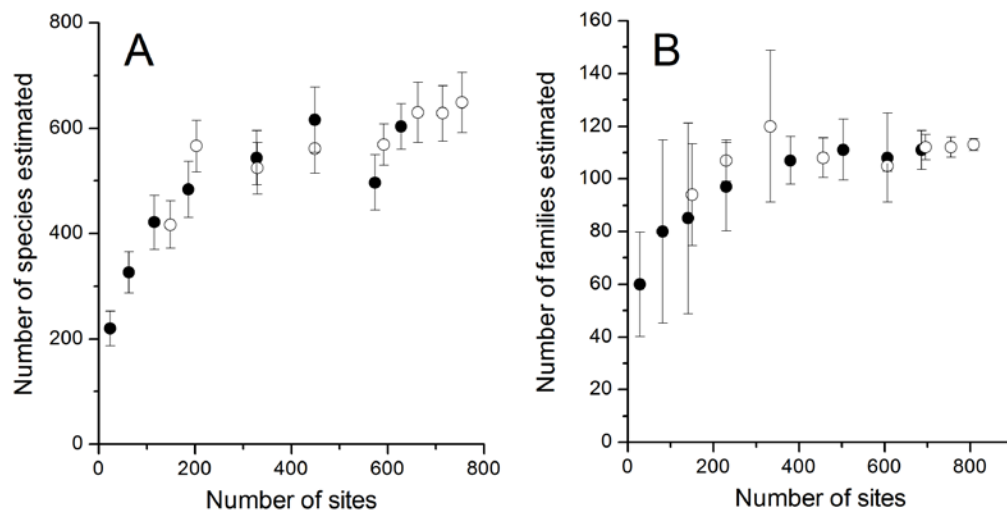


Figure S2: Chao estimates ( $\pm 95\%$  CI) for the different assumptions made concerning the definition of an "urban pond". Data are shown in relation to the number of sites included within each definition (see Table S1 for details) for gamma diversity at (A) species- and (B) family-level. Filled circles are urban pond samples, open circles are non-urban pond samples.

*Table S3: Sensitivity analysis showing the variation in relative gamma diversity in ponds categorised as “urban” or “non-urban” using different thresholds (see Table S1 for definitions of the assumptions).*

<b>Taxonomic level</b>	<b>Assumption</b>	<b>Urban gamma</b>	<b>Urban SE</b>	<b>Non-urban gamma</b>	<b>Non-urban SE</b>
Species	1	497	27	566	25
	2	616	32	524	25
	3	603	22	417	23
	4	220	17	649	29
	5	326	20	628	27
	6	421	26	630	29
	7	484	27	569	20
	8	544	26	561	24
Family	1	108	8.6	107	4.0
	2	111	5.9	120	14.7
	3	111	3.8	94	9.8
	4	60	10.1	113	1.2
	5	80	17.7	112	2.0
	6	85	18.5	112	2.5
	7	97	8.6	105	1.1
	8	107	4.6	108	3.8

Table S4 - Summary statistics for redundancy analysis of macroinvertebrate community data at (A) family-level and (B) species-level, with significant explanatory environmental parameters.

<b>A: Eigenvalues for constrained axes in family-level RDA</b>						
	RDA 1	RDA 2	RDA 3	RDA 4	RDA 5	RDA 6
Eigenvalues	0.198	0.056	0.033	0.018	0.015	0.006
Proportion Explained (%)	2.3	0.66	0.38	0.21	0.17	0.06
Cumulative Proportion Explained (%)	2.3	2.96	3.34	3.55	3.72	3.78
<i>Adjusted R<sup>2</sup></i>	0.02					
<b>Significant Environmental Variables</b>						
	Df	F	P			
Emergent Macrophytes	1	1.62	0.02			
Altitude	1	2.03	0.015			
Pond Area	1	2.25	0.01			
In Urban	1	9.05	0.005			

<b>B: Eigenvalues for constrained axes in species-level RDA</b>				
	RDA 1	RDA 2	RDA 3	RDA 4
Eigenvalues	0.250	0.128	0.076	0.064
Proportion Explained (%)	1.02	0.55	0.32	0.28
Cumulative Proportion Explained (%)	1.02	1.52	1.84	2.1
<i>Adjusted R<sup>2</sup></i>	0.01			
<b>Significant Environmental Variables</b>				
	Df	F	P	
Percentage pond shaded	1	1.37	0.04	
Area	1	1.64	0.02	
Altitude	1	2.17	0.01	
In Urban	1	3.23	0.005	

## Part 2: Analysis excluding degraded ponds

As discussed in the text, this analysis follows precisely the same methods as in the main part of the study but with the exclusion of sites which were explicitly recorded as being “degraded”.

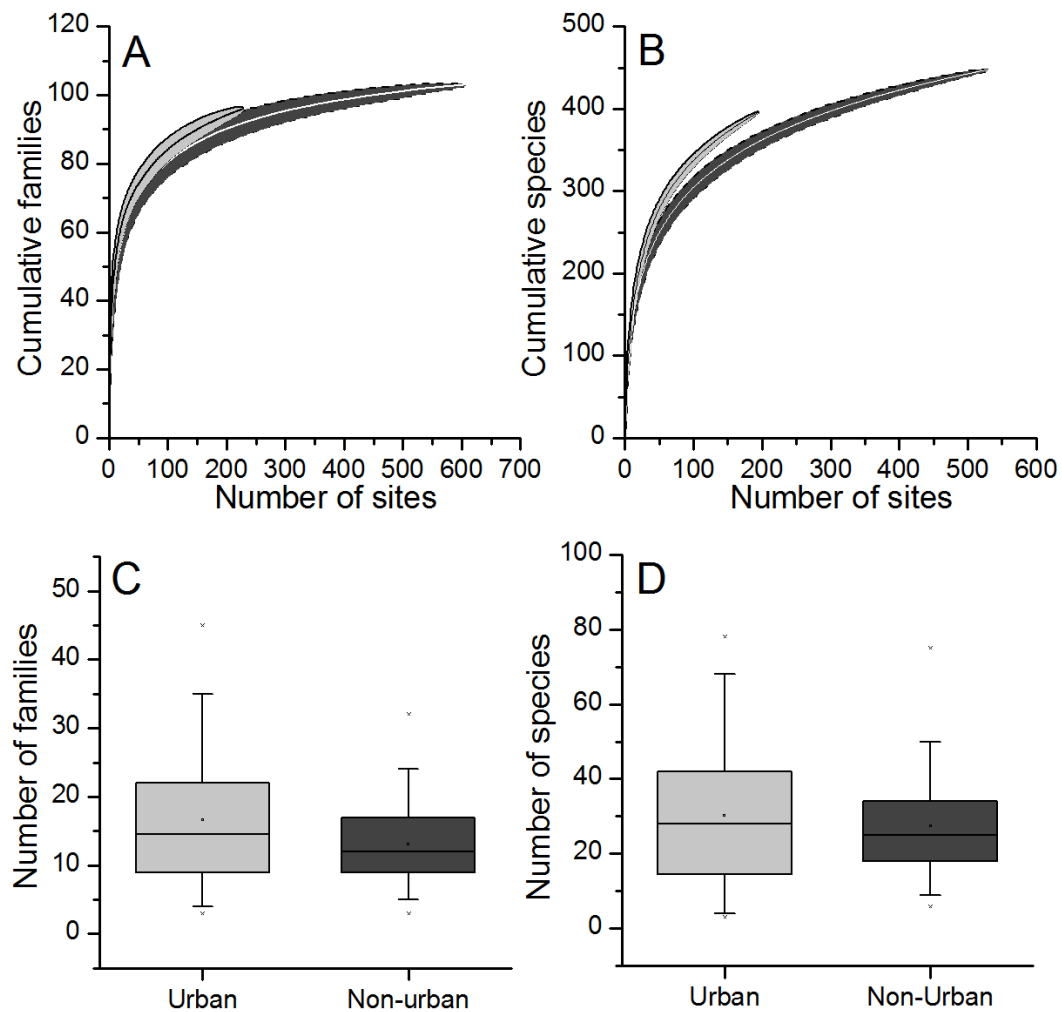


Figure S3 - Species accumulation curves of family richness (a) and species richness (b): grey area with black line = urban ponds, black area with white line = non-degraded, non-urban ponds, and median macroinvertebrate family richness (c) and species richness (d) for urban and non-degraded, non-urban ponds.

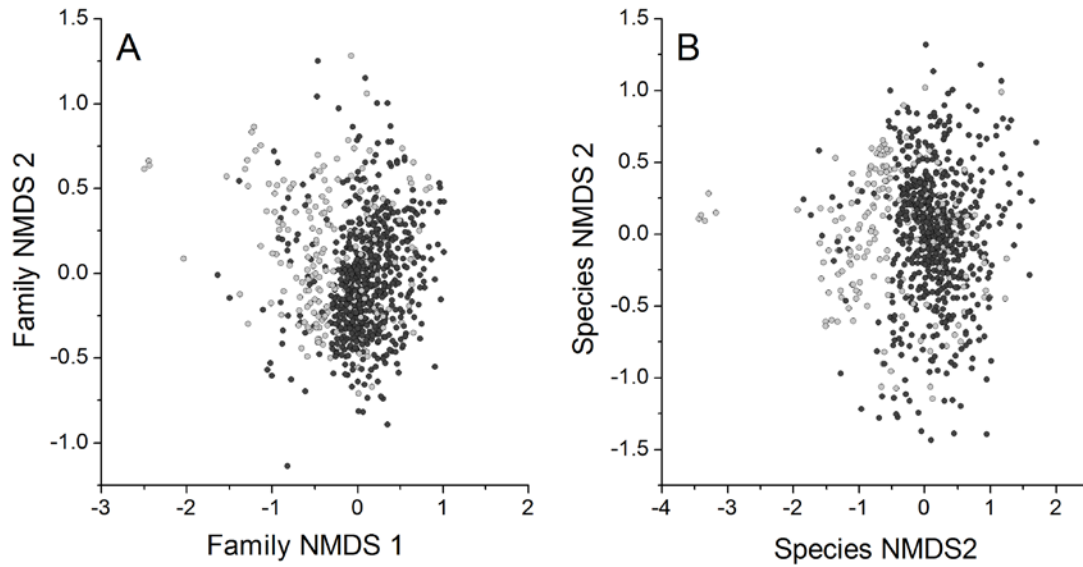
*Table S5 - Homogeneity of multivariate dispersions for non-degraded, non-urban ponds at a family and species taxonomic scale.*

<b>Taxonomic scale</b>	<b>Median</b>	<b>F</b>	<b>p-value</b>
Family	0.398	28.323	<0.001
Species	0.5504	17.439	<0.001

*Table S6 - PERMANOVA results for urban and non-degraded, non-urban pond macroinvertebrate communities at a family and species level.*

<b>PERMANOVA</b>	<b>R<sup>2</sup></b>	<b>p-value</b>
Species	0.030	0.001
Family	0.039	0.001





*Figure S4 - Non-Metric Multidimensional scaling plots of variation in aquatic macroinvertebrate families (A) and aquatic macroinvertebrate species (B) from urban and non-degraded, non-urban ponds (dark grey symbols = non-degraded, non-urban ponds and light grey symbols = urban ponds).*

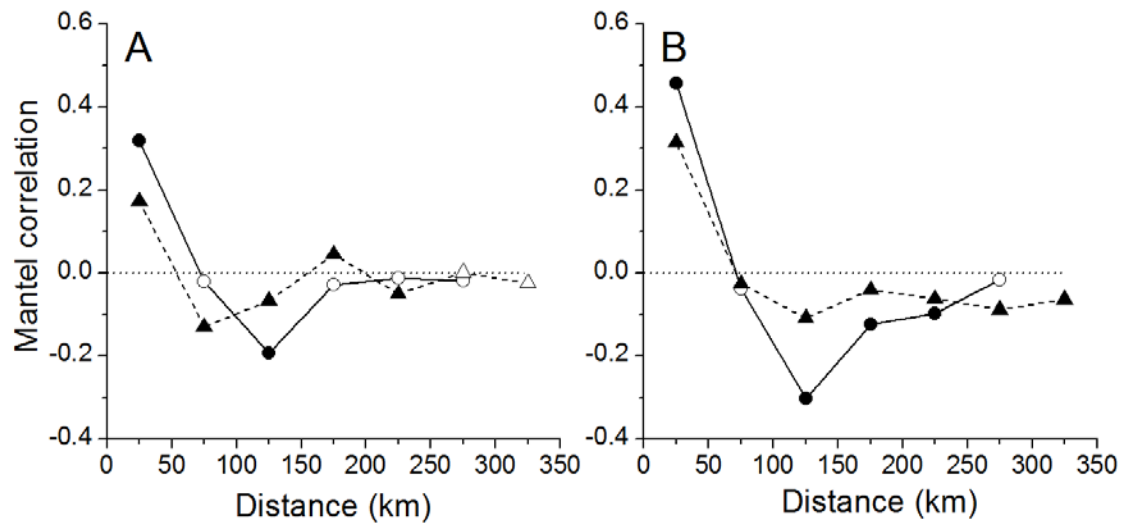
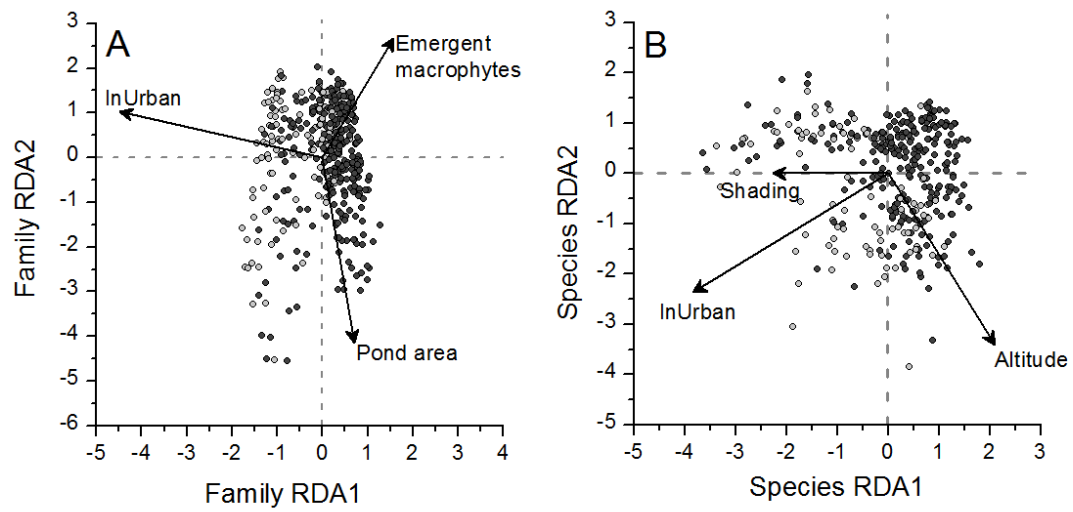


Figure S5 - Mantel correlogram for presence-absence macroinvertebrate family (A) and species (B) data along 50 km distance intervals excluding known degraded sites. Triangles = non degraded, non-urban macroinvertebrate communities, circles = urban macroinvertebrate communities. Filled symbols indicate statistically significant mantel correlations.

Table S7 – Table of summary statistics for Redundancy Analysis of macroinvertebrate family (A) and species (B) assemblage data for urban pond assemblages and non-degraded, non-urban pond assemblages (RDA axes were significant for the family ( $F=3.085$   $p<0.001$ ) and species ( $F=1.70$   $p<0.001$ ) models).

<b>(A) Eigenvalues for constrained axes (Family)</b>				
	RDA 1	RDA 2	RDA 3	RDA 4
Eigenvalues	0.21633	0.06478	0.02835	0.01456
Proportion Explained (%)	0.02647	0.00792	0.00347	0.00178
Cumulative Proportion Explained (%)	2.6	3.4	3.8	4.0
<i>Adjusted R</i> <sup>2</sup>	0.03			
<b>Significant Environmental Variables</b>				
	Df	F	P	
pH	1	2.58	0.005	
Area	1	2.1	0.01	
Altitude	1	1.68	0.025	
In Urban	1	8.48	0.005	
<b>(B) Eigenvalues for constrained axes (Species)</b>				
	RDA 1	RDA 2	RDA 3	RDA 4
Eigenvalues	0.21553	0.17987	0.07284	0.06056
Proportion Explained (%)	0.00958	0.00800	0.00324	0.00269
Cumulative Proportion Explained (%)	0.96	1.76	2.08	2.35
<i>Adjusted R</i> <sup>2</sup>	0.01			
<b>Significant Environmental Variables</b>				
	Df	F	P	
Emergent Plants	1	1.90	0.005	
Altitude	1	2.25	0.005	
In Urban	1	3.48	0.005	



*Figure S6 - RDA site plots of family (A) and species (B) macroinvertebrate communities recorded from the urban and non-degraded, non-urban pond types studied across the UK. Note - only significant environmental parameters are presented. Dark grey symbols = non-urban ponds and light grey symbols = urban ponds.*

### Part 3: Species and family prevalence in urban and non-urban ponds

Table S8: Occurrence of aquatic macroinvertebrate families in urban (n=304) and non-urban (n=607) ponds

Family	Non-urban occurrence	Urban occurrence	Non-urban prevalence	Urban prevalence
Acroloxidae	50	33	0.082	0.109
Aeshnidae	160	91	0.264	0.299
Ancylidae	3	1	0.005	0.003
Anthribidae	0	1	0.000	0.003
Aphelocheiridae	8	5	0.013	0.016
Araneae	22	3	0.036	0.010
Argulidae	0	2	0.000	0.007
Asellidae	376	199	0.619	0.655
Astacidae	8	2	0.013	0.007
Baetidae	333	154	0.549	0.507
Beraeidae	2	3	0.003	0.010
Bibionidae	1	0	0.002	0.000
Bithyniidae	35	30	0.058	0.099
Brachycentridae	2	0	0.003	0.000
Caenidae	71	37	0.117	0.122
Calopterygidae	2	1	0.003	0.003
Carabidae	1	2	0.002	0.007
Ceratopogonidae	1	36	0.002	0.118
Chaoboridae	0	4	0.000	0.013
Chironomidae	39	112	0.064	0.368
Chloroperlidae	1	1	0.002	0.003
Chrysomelidae	137	41	0.226	0.135
Cladocera	1	2	0.002	0.007
Coccinellidae	101	38	0.166	0.125
Coenagrionidae	319	148	0.526	0.487
Copepoda	2	3	0.003	0.010
Cordulegasteridae	0	1	0.000	0.003
Corixidae	497	224	0.819	0.737
Crambidae	83	39	0.137	0.128
Crangonyctidae	176	149	0.290	0.490
Culicidae	1	34	0.002	0.112
Curculionidae	19	3	0.031	0.010
Dendrocoelidae	6	18	0.010	0.059
Dixidae	2	35	0.003	0.115
Dryopidae	31	6	0.051	0.020
Dugesidae	49	37	0.081	0.122
Dytiscidae	559	253	0.921	0.832
Ecnomidae	6	0	0.010	0.000
Elmidae	18	9	0.030	0.030
Ephemeridae	4	1	0.007	0.003
Erpobdellidae	174	98	0.287	0.322
Euconulidae	5	1	0.008	0.003
Ferrissidae	5	2	0.008	0.007
Gammaridae	81	62	0.133	0.204
Gastrodontidae	1	0	0.002	0.000
Gerridae	268	128	0.442	0.421
Glossiphoniidae	230	129	0.379	0.424
Glossosomatiidae	1	1	0.002	0.003
Gyrinidae	134	40	0.221	0.132

Haliplidae	258	125	0.425	0.411
Hebridae	10	0	0.016	0.000
Helodidae	0	2	0.000	0.007
Heptageniidae	12	1	0.020	0.003
Heteroceridae	5	0	0.008	0.000
Hirudidae	25	9	0.041	0.030
Hydrachnidae	2	8	0.003	0.026
Hydraenidae	148	38	0.244	0.125
Hydrobiidae	57	63	0.094	0.207
Hydrometridae	70	54	0.115	0.178
Hydrophilidae	537	206	0.885	0.678
Hydropsychidae	1	3	0.002	0.010
Hydroptilidae	8	15	0.013	0.049
Hygrobiidae	53	18	0.087	0.059
Lepidostomatidae	3	2	0.005	0.007
Leptoceridae	93	56	0.153	0.184
Leptophlebiidae	17	13	0.028	0.043
Lestidae	47	7	0.077	0.023
Leuctridae	6	3	0.010	0.010
Libellulidae	142	60	0.234	0.197
Limacidae	14	10	0.023	0.033
Limnephilidae	320	157	0.527	0.516
Limnichidae	2	0	0.003	0.000
Lymnaeidae	342	185	0.563	0.609
Mesoveliidae	0	1	0.000	0.003
Microveliidae	36	12	0.059	0.039
Nabidae	75	58	0.124	0.191
Naucoridae	94	39	0.155	0.128
Nemouridae	57	20	0.094	0.066
Nepidae	16	29	0.026	0.095
Neuroptera	0	1	0.000	0.003
Niphargidae	2	0	0.003	0.000
Noteridae	61	51	0.100	0.168
Notonectidae	350	150	0.577	0.493
Odontoceridae	4	1	0.007	0.003
Oligochaeta	34	99	0.056	0.326
Ostracoda	2	3	0.003	0.010
Paguroidea	3	2	0.005	0.007
Phryganeidae	57	40	0.094	0.132
Physidae	56	67	0.092	0.220
Piscicolidae	16	11	0.026	0.036
Pisidiidae	142	65	0.234	0.214
Planariidae	185	81	0.305	0.266
Planorbidae	339	183	0.558	0.602
Pleidae	37	7	0.061	0.023
Polycentropodidae	46	44	0.076	0.145
Potamanthidae	6	2	0.010	0.007
Psychodidae	0	30	0.000	0.099
Psychomyiidae	7	5	0.012	0.016
Ptychopteridae	0	5	0.000	0.016
Pyralidae	6	5	0.010	0.016
Scirtidae	74	37	0.122	0.122
Sericostomatidae	4	1	0.007	0.003
Sialidae	153	91	0.252	0.299

Simuliidae	0	5	0.000	0.016
Siphonuridae	6	3	0.010	0.010
Sphaeriidae	44	69	0.072	0.227
Stratiomyidae	0	15	0.000	0.049
Succineidae	30	7	0.049	0.023
Taeniopterygidae	8	0	0.013	0.000
Tipulidae	14	55	0.023	0.181
Tortricoidea	0	1	0.000	0.003
Unionidae	12	0	0.020	0.000
Valvatidae	19	10	0.031	0.033
Veliidae	32	19	0.053	0.063
Viviparidae	4	1	0.007	0.003

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Table S9: Occurrence of aquatic macroinvertebrate species in urban (n=207) and non-urban (n=577) ponds

Species	Urban occurrence	Non-urban occurrence	Urban prevalence	Non-urban prevalence
<i>Acilius canaliculatus</i>	0	1	0.000	0.002
<i>Acilius sulcatus</i>	19	81	0.092	0.140
<i>Acroloxus lacustris</i>	25	54	0.121	0.094
<i>Aeshna cyanea</i>	37	86	0.179	0.149
<i>Aeshna grandis</i>	26	47	0.126	0.081
<i>Aeshna juncea</i>	1	20	0.005	0.035
<i>Aeshna mixta</i>	6	0	0.029	0.000
<i>Agabus affinis</i>	2	11	0.010	0.019
<i>Agabus arcticus</i>	1	1	0.005	0.002
<i>Agabus bipustulatus</i>	74	303	0.357	0.525
<i>Agabus chalconatus</i>	2	18	0.010	0.031
<i>Agabus congener</i>	1	2	0.005	0.003
<i>Agabus conspersus</i>	0	1	0.000	0.002
<i>Agabus didymus</i>	0	3	0.000	0.005
<i>Agabus guttatus</i>	0	2	0.000	0.003
<i>Agabus labiatus</i>	0	5	0.000	0.009
<i>Agabus melanarius</i>	0	10	0.000	0.017
<i>Agabus melanocornis</i>	5	10	0.024	0.017
<i>Agabus montanus</i>	1	8	0.005	0.014
<i>Agabus nebulosus</i>	21	156	0.101	0.270
<i>Agabus paludosus</i>	1	5	0.005	0.009
<i>Agabus sturmii</i>	40	163	0.193	0.282
<i>Agabus uliginosus</i>	7	13	0.034	0.023
<i>Agraylea multipunctata</i>	12	5	0.058	0.009
<i>Agraylea sexmaculata</i>	5	1	0.024	0.002
<i>Agrypnia obsoleta</i>	5	5	0.024	0.009
<i>Agrypnia pagetana</i>	4	2	0.019	0.003
<i>Agrypnia varia</i>	3	11	0.014	0.019
<i>Amphinemoura sulcicollis</i>	0	1	0.000	0.002
<i>Anabolia nervosa</i>	6	17	0.029	0.029
<i>Anacaena bipustulata</i>	3	19	0.014	0.033
<i>Anacaena globulus</i>	39	135	0.188	0.234
<i>Anacaena limbata</i>	68	259	0.329	0.449
<i>Anacaena lutescens</i>	28	119	0.135	0.206
<i>Anax imperator</i>	9	9	0.043	0.016
<i>Ancylus fluviatilis</i>	1	3	0.005	0.005
<i>Anisosticta I9 punctata</i>	11	72	0.053	0.125
<i>Anisus leucostoma</i>	27	41	0.130	0.071
<i>Anisus vortex</i>	27	107	0.130	0.185
<i>Anodonta anatina</i>	0	1	0.000	0.002
<i>Anodonta cygnea</i>	1	10	0.005	0.017
<i>Apatamia muliebris</i>	1	0	0.005	0.000
<i>Aphelocheirus aestivalis</i>	0	1	0.000	0.002
<i>Aphthona nonstriata</i>	0	8	0.000	0.014
<i>Aplexa hypnorum</i>	5	9	0.024	0.016
<i>Aquarius paludum</i>	0	1	0.000	0.002
<i>Arctocorisa germari</i>	1	4	0.005	0.007
<i>Argyroneta aquatica</i>	2	41	0.010	0.071
<i>Armiger crista</i>	42	110	0.203	0.191
<i>Asellus aquaticus</i>	130	294	0.628	0.510
<i>Asellus meridianus</i>	16	111	0.077	0.192



<i>Athripsodes aterrimus</i>	14	47	0.068	0.081
<i>Athripsodes bilineatus</i>	0	1	0.000	0.002
<i>Athripsodes cinereus</i>	1	4	0.005	0.007
<i>Austropotamobius pallipes</i>	0	1	0.000	0.002
<i>Baetis rhodani</i>	0	1	0.000	0.002
<i>Baetis vernus</i>	0	1	0.000	0.002
<i>Bathyomphalus contortus</i>	6	53	0.029	0.092
<i>Batrachobdella paludosa</i>	1	0	0.005	0.000
<i>Beraea pullata</i>	2	2	0.010	0.003
<i>Beraeodes minutus</i>	0	1	0.000	0.002
<i>Berosus affinis</i>	0	1	0.000	0.002
<i>Berosus luridus</i>	2	4	0.010	0.007
<i>Berosus signaticollis</i>	1	10	0.005	0.017
<i>Bithynia leachi</i>	2	11	0.010	0.019
<i>Bithynia tentaculata</i>	22	35	0.106	0.061
<i>Brachycentrus subnubilus</i>	0	1	0.000	0.002
<i>Caenis horaria</i>	24	26	0.116	0.045
<i>Caenis luctuosa</i>	9	18	0.043	0.031
<i>Caenis macrura</i>	0	1	0.000	0.002
<i>Caenis rivulorum</i>	5	3	0.024	0.005
<i>Caenis robusta</i>	5	19	0.024	0.033
<i>Callicorixa praeusta</i>	29	46	0.140	0.080
<i>Callicorixa wollastoni</i>	4	3	0.019	0.005
<i>Cataclysta lemnata</i>	20	39	0.097	0.068
<i>Centropilum pennulatum</i>	1	2	0.005	0.003
<i>Ceraclea fulva</i>	1	0	0.005	0.000
<i>Ceraclea nigronevosa</i>	0	1	0.000	0.002
<i>Cercyon convexiusculus</i>	18	74	0.087	0.128
<i>Cercyon granarius</i>	1	2	0.005	0.003
<i>Cercyon impressus</i>	0	7	0.000	0.012
<i>Cercyon marinus</i>	2	5	0.010	0.009
<i>Cercyon obsoletus</i>	0	1	0.000	0.002
<i>Cercyon sternalis</i>	0	4	0.000	0.007
<i>Cercyon tristis</i>	0	9	0.000	0.016
<i>Cercyon ustulatus</i>	4	24	0.019	0.042
<i>Ceriagrion tenellum</i>	0	4	0.000	0.007
<i>Chaetarthria seminulum</i>	0	2	0.000	0.003
<i>Chaetocnema concinna</i>	1	2	0.005	0.003
<i>Chalcoides aurea</i>	0	2	0.000	0.003
<i>Cheumatopsyche lepida</i>	0	1	0.000	0.002
<i>Chloroperla torrentium</i>	0	1	0.000	0.002
<i>Chrysolina polita</i>	0	6	0.000	0.010
<i>Cloeon dipterum</i>	110	283	0.531	0.490
<i>Cloeon simile</i>	9	38	0.043	0.066
<i>Coccidula rufa</i>	11	48	0.053	0.083
<i>Coelambus confluens</i>	3	14	0.014	0.024
<i>Coelambus impressopunctatus</i>	17	76	0.082	0.132
<i>Coelambus paralellogrammus</i>	0	1	0.000	0.002
<i>Coelostoma orbiculare</i>	12	58	0.058	0.101
<i>Coenagrion puella pulchellum</i>	57	207	0.275	0.359
<i>Colymbetes fuscus</i>	38	207	0.184	0.359
<i>Copelatus haemorrhoidalis</i>	12	76	0.058	0.132
<i>Corixa affinis</i>	0	1	0.000	0.002
<i>Corixa dentipes</i>	7	10	0.034	0.017

<i>Corixa panzeri</i>	7	13	0.034	0.023
<i>Corixa punctata</i>	50	238	0.242	0.412
<i>Corixidae nymph</i>	41	1	0.198	0.002
<i>Crangonyx pseudogracilis</i>	123	190	0.594	0.329
<i>Cymatia bondsdorffi</i>	4	5	0.019	0.009
<i>Cymatia coleoptrata</i>	6	13	0.029	0.023
<i>Cymbiodyta marginella</i>	18	127	0.087	0.220
<i>Cyphon coarctatus</i>	0	3	0.000	0.005
<i>Cyphon hilaria</i>	11	25	0.053	0.043
<i>Cyphon padi</i>	1	4	0.005	0.007
<i>Cyphon variabilis</i>	0	1	0.000	0.002
<i>Cyrnus flavidus</i>	7	6	0.034	0.010
<i>Cyrnus trimaculatus</i>	15	4	0.072	0.007
<i>Dendrocoelum lacteum</i>	14	8	0.068	0.014
<i>Deroceras laeve</i>	2	14	0.010	0.024
<i>Donacia marginata</i>	0	2	0.000	0.003
<i>Donacia simplex</i>	5	28	0.024	0.049
<i>Donacia versicoloreae</i>	1	1	0.005	0.002
<i>Donacia vulgaris</i>	1	13	0.005	0.023
<i>Dryops ernesti</i>	0	1	0.000	0.002
<i>Dryops luridus</i>	3	20	0.014	0.035
<i>Dryops similaris</i>	0	7	0.000	0.012
<i>Dryops striatellus</i>	0	3	0.000	0.005
<i>Dugesia lugubris</i>	7	24	0.034	0.042
<i>Dugesia polychroa</i>	20	11	0.097	0.019
<i>Dugesia tigrina</i>	17	16	0.082	0.028
<i>Dytiscus circumcinctus</i>	0	2	0.000	0.003
<i>Dytiscus circumflexus</i>	0	13	0.000	0.023
<i>Dytiscus marginalis</i>	23	53	0.111	0.092
<i>Dytiscus semisulcatus</i>	2	10	0.010	0.017
<i>Ecdyonurus dispar</i>	0	1	0.000	0.002
<i>Ecnomus tenellus</i>	0	2	0.000	0.003
<i>Elmis aenea</i>	1	4	0.005	0.007
<i>Elophila nymphaeata</i>	13	62	0.063	0.107
<i>Enallagma cyathigerum</i>	23	91	0.111	0.158
<i>Enochrus affinis</i>	2	11	0.010	0.019
<i>Enochrus bicolor</i>	0	1	0.000	0.002
<i>Enochrus coarctatus</i>	28	114	0.135	0.198
<i>Enochrus fuscipennis</i>	0	6	0.000	0.010
<i>Enochrus halophilus</i>	0	2	0.000	0.003
<i>Enochrus isotae</i>	0	5	0.000	0.009
<i>Enochrus melanocephalus</i>	1	13	0.005	0.023
<i>Enochrus nigritus</i>	0	1	0.000	0.002
<i>Enochrus ochropterus</i>	0	18	0.000	0.031
<i>Enochrus testaceus</i>	26	78	0.126	0.135
<i>Ephemera danica</i>	1	1	0.005	0.002
<i>Ephemera vulgata</i>	1	3	0.005	0.005
<i>Ephemerella ignita</i>	0	1	0.000	0.002
<i>Erpobdella octoculata</i>	45	136	0.217	0.236
<i>Erpobdella testacea</i>	35	52	0.169	0.090
<i>Erythromma najas</i>	12	33	0.058	0.057
<i>Euconulus alderi</i>	1	5	0.005	0.009
<i>Ferrissia wautieri</i>	2	5	0.010	0.009
<i>Galerucella cf griseocens</i>	0	2	0.000	0.003

<i>Galerucella sagittariae</i>	0	15	0.000	0.026
<i>Gammarus lacustris</i>	4	0	0.019	0.000
<i>Gammarus pulex</i>	58	69	0.280	0.120
<i>Garrmarus zaddachi</i>	0	1	0.000	0.002
<i>Gastrophysa polygoni</i>	0	3	0.000	0.005
<i>Gerris argentatus</i>	0	5	0.000	0.009
<i>Gerris costai</i>	0	1	0.000	0.002
<i>Gerris gibbifer</i>	5	3	0.024	0.005
<i>Gerris lacustris</i>	71	191	0.343	0.331
<i>Gerris lateralis</i>	0	4	0.000	0.007
<i>Gerris odontogaster</i>	12	54	0.058	0.094
<i>Gerris thoracicus</i>	9	47	0.043	0.081
<i>Glossiphonia complanata</i>	37	92	0.179	0.159
<i>Glossiphonia heteroclita</i>	15	70	0.072	0.121
<i>Glyptotaelius pellucidus</i>	22	44	0.106	0.076
<i>Grammotaulius nigropunctatus</i>	3	6	0.014	0.010
<i>Graptodytes flavipes</i>	0	3	0.000	0.005
<i>Graptodytes granularis</i>	1	9	0.005	0.016
<i>Graptodytes pictus</i>	1	17	0.005	0.029
<i>Gyraulus albus</i>	66	150	0.319	0.260
<i>Gyraulus laevis</i>	4	2	0.019	0.003
<i>Gyrinus caspius</i>	0	3	0.000	0.005
<i>Gyrinus distinctus</i>	1	0	0.005	0.000
<i>Gyrinus marinus</i>	2	33	0.010	0.057
<i>Gyrinus substriatus</i>	20	84	0.097	0.146
<i>Gyrinus urinator</i>	1	1	0.005	0.002
<i>Haemopsis sanguisuga</i>	11	46	0.053	0.080
<i>Halesus digitatus</i>	0	1	0.000	0.002
<i>Halesus radiatus</i>	2	6	0.010	0.010
<i>Halipilus confinis</i>	16	19	0.077	0.033
<i>Halipilus flavicollis</i>	2	30	0.010	0.052
<i>Halipilus fluviatilis</i>	1	11	0.005	0.019
<i>Halipilus fulvus</i>	6	26	0.029	0.045
<i>Halipilus heydeni</i>	1	7	0.005	0.012
<i>Halipilus immaculatus</i>	9	40	0.043	0.069
<i>Halipilus laminatus</i>	2	4	0.010	0.007
<i>Halipilus lineatocollis</i>	16	71	0.077	0.123
<i>Halipilus lineolatus</i>	2	3	0.010	0.005
<i>Halipilus obliquus</i>	6	20	0.029	0.035
<i>Halipilus ruficollis</i>	63	178	0.304	0.308
<i>Halipilus variegatus</i>	0	1	0.000	0.002
<i>Halipilus wehnckeii</i>	3	28	0.014	0.049
<i>Hebrus pusillus</i>	0	2	0.000	0.003
<i>Hebrus ruficeps</i>	0	6	0.000	0.010
<i>Helobdella stagnalis</i>	69	118	0.333	0.205
<i>Helochaeres lividus</i>	24	76	0.116	0.132
<i>Helochaeres punctatus</i>	8	53	0.039	0.092
<i>Helophorus aequalis</i>	12	52	0.058	0.090
<i>Helophorus alternans</i>	0	1	0.000	0.002
<i>Helophorus avernicus</i>	0	1	0.000	0.002
<i>Helophorus brevipalpis</i>	68	340	0.329	0.589
<i>Helophorus dorsalis</i>	0	1	0.000	0.002
<i>Helophorus flavipes</i>	5	28	0.024	0.049
<i>Helophorus fulgidicollis</i>	0	1	0.000	0.002

<i>Helophorus grandis</i>	54	286	0.261	0.496
<i>Helophorus granularis</i>	4	11	0.019	0.019
<i>Helophorus griseus</i>	2	6	0.010	0.010
<i>Helophorus longitarsis</i>	0	1	0.000	0.002
<i>Helophorus minutus</i>	36	122	0.174	0.211
<i>Helophorus nanus</i>	3	11	0.014	0.019
<i>Helophorus obscurus</i>	13	73	0.063	0.127
<i>Helophorus strigifrons</i>	2	4	0.010	0.007
<i>Helophorus terrestrial</i>	3	0	0.014	0.000
<i>Helophorus tuberculatus</i>	0	1	0.000	0.002
<i>Hemiclepsis marginata</i>	9	10	0.043	0.017
<i>Heptagenea sulphurea</i>	0	1	0.000	0.002
<i>Hesperocorixa castanea</i>	6	36	0.029	0.062
<i>Hesperocorixa linnei</i>	24	80	0.116	0.139
<i>Hesperocorixa moesta</i>	11	10	0.053	0.017
<i>Hesperocorixa sahlbergi</i>	72	250	0.348	0.433
<i>Heterocerus fenestratus</i>	0	3	0.000	0.005
<i>Hippeutis complanatus</i>	44	106	0.213	0.184
<i>Hippuriphila modeeri</i>	0	8	0.000	0.014
<i>Holocentropus dubius</i>	5	16	0.024	0.028
<i>Holocentropus picicornis</i>	8	17	0.039	0.029
<i>Holocentropus stagnalis</i>	2	7	0.010	0.012
<i>Hydaticus seminiger</i>	5	19	0.024	0.033
<i>Hydraena britteni</i>	0	1	0.000	0.002
<i>Hydraena riparia</i>	6	27	0.029	0.047
<i>Hydraena testacea</i>	4	14	0.019	0.024
<i>Hydrobius fuscipes</i>	83	296	0.401	0.513
<i>Hydrochara caraboides</i>	2	3	0.010	0.005
<i>Hydrochus angustatus</i>	1	17	0.005	0.029
<i>Hydrochus brevis</i>	0	1	0.000	0.002
<i>Hydrochus carinatus</i>	0	3	0.000	0.005
<i>Hydrochus elongatus</i>	1	4	0.005	0.007
<i>Hydroglyphus geminus</i>	2	15	0.010	0.026
<i>Hydroglyphus pusillus</i>	2	0	0.010	0.000
<i>Hydrometra gracilentia</i>	0	1	0.000	0.002
<i>Hydrometra stagnorum</i>	42	71	0.203	0.123
<i>Hydroporus angustatus</i>	38	147	0.184	0.255
<i>Hydroporus discretus</i>	1	9	0.005	0.016
<i>Hydroporus erythrocephalus</i>	12	72	0.058	0.125
<i>Hydroporus glabriusculus</i>	0	2	0.000	0.003
<i>Hydroporus gyllenhalii</i>	10	58	0.048	0.101
<i>Hydroporus incognitus</i>	6	37	0.029	0.064
<i>Hydroporus longicornis</i>	0	1	0.000	0.002
<i>Hydroporus longulus</i>	0	1	0.000	0.002
<i>Hydroporus marginatus</i>	0	1	0.000	0.002
<i>Hydroporus melanarius</i>	0	1	0.000	0.002
<i>Hydroporus memnonius</i>	15	72	0.072	0.125
<i>Hydroporus neglectus</i>	8	14	0.039	0.024
<i>Hydroporus nigrita</i>	10	61	0.048	0.106
<i>Hydroporus obscurus</i>	3	17	0.014	0.029
<i>Hydroporus obsoletus</i>	2	0	0.010	0.000
<i>Hydroporus palustris</i>	57	251	0.275	0.435
<i>Hydroporus planus</i>	46	270	0.222	0.468
<i>Hydroporus pubescens</i>	12	77	0.058	0.133

<i>Hydroporus rufifrons</i>	0	1	0.000	0.002
<i>Hydroporus striola</i>	12	50	0.058	0.087
<i>Hydroporus tessellatus</i>	6	71	0.029	0.123
<i>Hydroporus tristis</i>	1	22	0.005	0.038
<i>Hydroporus umbrosus</i>	2	32	0.010	0.055
<i>Hydropsyche angustipennis</i>	2	0	0.010	0.000
<i>Hydrothassa marginella</i>	0	8	0.000	0.014
<i>Hydrovatus clypealis</i>	1	2	0.005	0.003
<i>Hygrobia hermanni</i>	8	53	0.039	0.092
<i>Hygrotus decoratus</i>	2	8	0.010	0.014
<i>Hygrotus inaequalis</i>	41	209	0.198	0.362
<i>Hygrotus versicolor</i>	5	3	0.024	0.005
<i>Hyphydrus ovatus</i>	24	136	0.116	0.236
<i>Hyrdochus ignicollis</i>	0	1	0.000	0.002
<i>Ilybius ater</i>	23	144	0.111	0.250
<i>Ilybius fenestratus</i>	2	7	0.010	0.012
<i>Ilybius fuliginosus</i>	30	173	0.145	0.300
<i>Ilybius guttiger</i>	5	19	0.024	0.033
<i>Ilybius quadriguttatus</i>	6	47	0.029	0.081
<i>Ilybius subaeneus</i>	0	11	0.000	0.019
<i>Ilyocoris cimicoides</i>	26	93	0.126	0.161
<i>Ischnura elegans</i>	72	176	0.348	0.305
<i>Ischnura pumilio</i>	0	1	0.000	0.002
<i>Laccobius atratus</i>	0	1	0.000	0.002
<i>Laccobius biguttatus</i>	25	91	0.121	0.158
<i>Laccobius bipunctatus</i>	10	39	0.048	0.068
<i>Laccobius colon</i>	0	1	0.000	0.002
<i>Laccobius minutus</i>	9	30	0.043	0.052
<i>Laccobius sinuatus</i>	1	1	0.005	0.002
<i>Laccobius striatulus</i>	0	1	0.000	0.002
<i>Laccobius ytenensis</i>	0	1	0.000	0.002
<i>Laccophilus hyalinus</i>	1	2	0.005	0.003
<i>Laccophilus minutus</i>	36	224	0.174	0.388
<i>Laccornis oblongus</i>	0	1	0.000	0.002
<i>Lasiocephala basalis</i>	1	0	0.005	0.000
<i>Lepidostoma hirtum</i>	0	2	0.000	0.003
<i>Leptocerus tineiformis</i>	5	5	0.024	0.009
<i>Leptophlebia marginata</i>	7	7	0.034	0.012
<i>Leptophlebia vespertina</i>	1	3	0.005	0.005
<i>Lestes sponsa</i>	3	37	0.014	0.064
<i>Leuctra fusca</i>	0	2	0.000	0.003
<i>Libellula depressa</i>	13	8	0.063	0.014
<i>Libellula quadrimaculata</i>	11	36	0.053	0.062
<i>Limnebius nitidus</i>	1	6	0.005	0.010
<i>Limnebius papposus</i>	1	1	0.005	0.002
<i>Limnebius truncatellus</i>	7	28	0.034	0.049
<i>Limnephilus affinis incisus</i>	9	21	0.043	0.036
<i>Limnephilus auricula</i>	13	42	0.063	0.073
<i>Limnephilus binotatus</i>	4	2	0.019	0.003
<i>Limnephilus bipunctatus</i>	1	3	0.005	0.005
<i>Limnephilus centralis</i>	6	21	0.029	0.036
<i>Limnephilus decipiens</i>	7	2	0.034	0.003
<i>Limnephilus extricatus</i>	0	2	0.000	0.003
<i>Limnephilus flavicornis</i>	48	84	0.232	0.146

<i>Limnephilus griseus</i>	1	1	0.005	0.002
<i>Limnephilus hirsutus</i>	0	2	0.000	0.003
<i>Limnephilus ignavus</i>	0	1	0.000	0.002
<i>Limnephilus lunatus</i>	47	109	0.227	0.189
<i>Limnephilus marmoratus</i>	20	51	0.097	0.088
<i>Limnephilus nigriceps</i>	1	0	0.005	0.000
<i>Limnephilus politus</i>	1	0	0.005	0.000
<i>Limnephilus rhombicus</i>	6	3	0.029	0.005
<i>Limnephilus sparsus</i>	1	3	0.005	0.005
<i>Limnephilus stigma</i>	5	17	0.024	0.029
<i>Limnephilus vittatus</i>	24	154	0.116	0.267
<i>Limnius volckmari</i>	0	3	0.000	0.005
<i>Limnoxenus niger</i>	0	1	0.000	0.002
<i>Lymnaea auricularia</i>	1	18	0.005	0.031
<i>Lymnaea glabra</i>	4	8	0.019	0.014
<i>Lymnaea palustris</i>	31	97	0.150	0.168
<i>Lymnaea peregra</i>	89	253	0.430	0.438
<i>Lymnaea stagnalis</i>	59	100	0.285	0.173
<i>Lymnaea truncatula</i>	7	61	0.034	0.106
<i>Lype reducta</i>	2	2	0.010	0.003
<i>Megasternum obscurum</i>	1	3	0.005	0.005
<i>Mesovelgia furcata</i>	1	0	0.005	0.000
<i>Microcara testacea</i>	0	13	0.000	0.023
<i>Micronecta poweri</i>	10	0	0.048	0.000
<i>Micronecta scholtzi</i>	3	1	0.014	0.002
<i>Micropterna lateralis</i>	0	4	0.000	0.007
<i>Microvelia buenoi</i>	0	2	0.000	0.003
<i>Microvelia pygmaea</i>	0	2	0.000	0.003
<i>Microvelia reticulata</i>	7	61	0.034	0.106
<i>Molanna angustata</i>	6	3	0.029	0.005
<i>Musculium lacustre</i>	15	64	0.072	0.111
<i>Mystacides azurea</i>	7	8	0.034	0.014
<i>Mystacides longicornis</i>	15	8	0.072	0.014
<i>Mystacides nigra</i>	1	3	0.005	0.005
<i>Myxas glutinosa</i>	0	1	0.000	0.002
<i>Nebrioporus depressus</i>	1	13	0.005	0.023
<i>Nebrioporus elegans</i>	1	0	0.005	0.000
<i>Nemoura cambrica</i>	0	1	0.000	0.002
<i>Nemoura cinerea</i>	7	50	0.034	0.087
<i>Nemurella picteti</i>	5	9	0.024	0.016
<i>Nepa cinerea</i>	32	91	0.155	0.158
<i>Niphargus aquilex</i>	0	1	0.000	0.002
<i>Noterus clavicornis</i>	62	169	0.300	0.293
<i>Noterus crassicornis</i>	0	16	0.000	0.028
<i>Notonecta glauca</i>	91	329	0.440	0.570
<i>Notonecta maculata</i>	13	0	0.063	0.000
<i>Notonecta marmorea</i>	5	17	0.024	0.029
<i>Notonecta obliqua</i>	7	7	0.034	0.012
<i>Nymphula stagnata</i>	0	4	0.000	0.007
<i>Ochthebius dilatatus</i>	1	1	0.005	0.002
<i>Ochthebius marinus</i>	0	3	0.000	0.005
<i>Ochthebius minimus</i>	16	107	0.077	0.185
<i>Ochthebius nanus</i>	0	1	0.000	0.002
<i>Ochthebius punctatus</i>	0	1	0.000	0.002

<i>Ochthebius viridis</i>	0	4	0.000	0.007
<i>Oecetis lacustris</i>	2	3	0.010	0.005
<i>Oecetis ochracea</i>	2	4	0.010	0.007
<i>Oligotricha striata</i>	0	2	0.000	0.003
<i>Oreodytes sanmarkii</i>	0	1	0.000	0.002
<i>Orthetrum cancellatum</i>	2	2	0.010	0.003
<i>Orthetrum coerulescens</i>	0	2	0.000	0.003
<i>Oulimnius tuberculatus</i>	2	7	0.010	0.012
<i>Oxyloma pfeifferi</i>	4	24	0.019	0.042
<i>Paracorixa concinna</i>	4	0	0.019	0.000
<i>Paracymus scutellaris</i>	0	8	0.000	0.014
<i>Paraleptophlebia submarginata</i>	0	1	0.000	0.002
<i>Paraponyx stratiotata</i>	1	3	0.005	0.005
<i>Peltodytes caesus</i>	1	3	0.005	0.005
<i>Phaedon armoraciae</i>	9	46	0.043	0.080
<i>Phryganea bipunctata</i>	18	10	0.087	0.017
<i>Phryganea grandis</i>	0	1	0.000	0.002
<i>Physa acuta</i>	24	20	0.116	0.035
<i>Physa fontinalis</i>	23	22	0.111	0.038
<i>Physa heterostropha</i>	1	0	0.005	0.000
<i>Piscicola geometra</i>	8	9	0.039	0.016
<i>Pisidium casertanum</i>	1	2	0.005	0.003
<i>Pisidium hybernicum</i>	3	1	0.014	0.002
<i>Pisidium nitidum</i>	1	2	0.005	0.003
<i>Pisidium subtruncatum</i>	3	3	0.014	0.005
<i>Pisidium supinum</i>	1	0	0.005	0.000
<i>Planaria torva</i>	1	0	0.005	0.000
<i>Planorbarius corneus</i>	44	51	0.213	0.088
<i>Planorbis carinatus</i>	22	56	0.106	0.097
<i>Planorbis planorbis</i>	18	29	0.087	0.050
<i>Platambus maculatus</i>	1	2	0.005	0.003
<i>Plateumaris discolor</i>	0	1	0.000	0.002
<i>Plateumaris sericea</i>	0	2	0.000	0.003
<i>Plea leachi</i>	9	48	0.043	0.083
<i>Plectrocnemia conspersa</i>	1	3	0.005	0.005
<i>Polycelis felina</i>	0	3	0.000	0.005
<i>Polycelis nigra</i>	11	28	0.053	0.049
<i>Polycelis tenuis</i>	33	159	0.159	0.276
<i>Polycentropus flavomaculatus</i>	1	1	0.005	0.002
<i>Porhydrus lineatus</i>	0	34	0.000	0.059
<i>Potamanthus luteus</i>	0	1	0.000	0.002
<i>Potamonectes assimilis</i>	0	1	0.000	0.002
<i>Potamophylax latipennis</i>	1	1	0.005	0.002
<i>Potamopyrgus antipodarum</i>	44	55	0.213	0.095
<i>Prasocuris phellandrii</i>	1	19	0.005	0.033
<i>Prasocurus junci</i>	0	6	0.000	0.010
<i>Procloeon bifidum</i>	0	1	0.000	0.002
<i>Psylliodes affinis</i>	0	4	0.000	0.007
<i>Pyrrosoma nymphula</i>	37	88	0.179	0.153
<i>Radix auricularia</i>	2	0	0.010	0.000
<i>Radix balthica</i>	4	0	0.019	0.000
<i>Ranatra linearis</i>	7	5	0.034	0.009
<i>Rhantus exsoletus</i>	1	15	0.005	0.026
<i>Rhantus frontalis</i>	0	1	0.000	0.002

<i>Rhantus grapii</i>	0	3	0.000	0.005
<i>Rhantus suturalis</i>	4	4	0.019	0.007
<i>Rhantus suturellus</i>	1	4	0.005	0.007
<i>Scirtes hemisphaericus</i>	6	32	0.029	0.055
<i>Sericostoma personatum</i>	1	4	0.005	0.007
<i>Sialis fuliginosa</i>	1	0	0.005	0.000
<i>Sialis lutaria</i>	55	141	0.266	0.244
<i>Sigara concinna</i>	6	43	0.029	0.075
<i>Sigara distincta</i>	31	117	0.150	0.203
<i>Sigara dorsalis</i>	57	132	0.275	0.229
<i>Sigara falleni</i>	28	63	0.135	0.109
<i>Sigara fossarum</i>	8	53	0.039	0.092
<i>Sigara lateralis</i>	24	53	0.116	0.092
<i>Sigara limitata</i>	10	27	0.048	0.047
<i>Sigara nigrolineata</i>	13	56	0.063	0.097
<i>Sigara scotti</i>	1	14	0.005	0.024
<i>Sigara semistriata</i>	1	17	0.005	0.029
<i>Sigara stagnalis</i>	1	0	0.005	0.000
<i>Sigara venusta</i>	0	2	0.000	0.003
<i>Siphonurus lacustris</i>	0	2	0.000	0.003
<i>Sisyra fuscata</i>	1	0	0.005	0.000
<i>Sphaerium corneum</i>	19	112	0.092	0.194
<i>Sphaerium rivicola</i>	1	0	0.005	0.000
<i>Stagnicola palustris</i>	1	0	0.005	0.000
<i>Stenophylax permistus</i>	0	1	0.000	0.002
<i>Stictonectes lepidus</i>	1	4	0.005	0.007
<i>Stictotarsus duodecimpustulatus</i>	0	8	0.000	0.014
<i>Succinea putris</i>	2	5	0.010	0.009
<i>Suphrodytes dorsalis</i>	11	59	0.053	0.102
<i>Sympetrum danae</i>	1	2	0.005	0.003
<i>Sympetrum flaviolum</i>	0	1	0.000	0.002
<i>Sympetrum fonscolombii</i>	1	0	0.005	0.000
<i>Sympetrum sanguineum</i>	8	34	0.039	0.059
<i>Sympetrum striolatum</i>	27	89	0.130	0.154
<i>Tanysphyrus lemnae</i>	2	17	0.010	0.029
<i>Theromyzon tessulatum</i>	34	89	0.164	0.154
<i>Tinodes waeneri</i>	5	2	0.024	0.003
<i>Triaenodes bicolor</i>	14	38	0.068	0.066
<i>Tricholeiochiton fagesii</i>	0	1	0.000	0.002
<i>Trichostegia minor</i>	3	18	0.014	0.031
<i>Trocheta bykowskii</i>	0	1	0.000	0.002
<i>Valvata cristata</i>	0	15	0.000	0.026
<i>Valvata macrostoma</i>	0	2	0.000	0.003
<i>Valvata piscinalis</i>	9	10	0.043	0.017
<i>Velia caprai</i>	4	8	0.019	0.014
<i>Viviparus contectus</i>	0	2	0.000	0.003
<i>Viviparus viviparus</i>	1	2	0.005	0.003
<i>Zonitoides nitidus</i>	7	4	0.034	0.007

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*Table S10 - Aquatic macroinvertebrate families identified as statistically significant indicator species for urban or non-urban ponds.*

<b>Habitat</b>	<b>Taxon</b>	<b>statistic</b>	<b>p-value</b>
Non-urban ponds	Nemouridae	0.341	0.007
	Heptageniidae	0.196	0.021
Urban ponds	Chironomidae	0.719	0.001
	Oligochaeta	0.690	0.001
	Crangonyctidae	0.632	0.001
	Sphaeriidae	0.511	0.001
	Ceratopogonidae	0.477	0.001
	Dixidae	0.463	0.001
	Hydrobiidae	0.458	0.001
	Culicidae	0.449	0.001
	Physidae	0.447	0.001
	Psychodidae	0.426	0.001
	Hydrometridae	0.412	0.001
	Nepidae	0.377	0.001
	Dugesidae	0.362	0.001
	Stratiomyidae	0.302	0.001
	Hydroptilidae	0.278	0.003
	Dendrocoelidae	0.275	0.001
	Hydrachnidae	0.213	0.001
	Chaoboridae	0.161	0.01
Ptychopteridae	0.161	0.017	
Simuliidae	0.161	0.014	

Table S11 - Aquatic macroinvertebrate species identified as statistically significant indicator species for urban or non-urban ponds.

Habitat	Taxon	statistic	p-value
Non-urban ponds	<i>Hydroporus planus</i>	0.573	0.001
	<i>Hydroporus pubescens</i>	0.390	0.001
	<i>Helochares punctatus</i>	0.382	0.001
	<i>Hydroporus erythrocephalus</i>	0.373	0.003
	<i>Cymbiodyta marginella</i>	0.365	0.005
	<i>Lymnaea truncatula</i>	0.362	0.001
	<i>Copelatus haemorrhoidalis</i>	0.346	0.004
	<i>Hydroporus gyllenhalii</i>	0.339	0.001
	<i>Hydroporus tessellatus</i>	0.327	0.003
	<i>Bathyomphalus contortus</i>	0.318	0.009
	<i>Hesperocorixa castanea</i>	0.298	0.023
	<i>Argyroneta aquatica</i>	0.298	0.004
	<i>Hydroporus memnonius</i>	0.283	0.011
	<i>Hydroporus umbrosus</i>	0.262	0.037
	<i>Coelostoma orbiculare</i>	0.248	0.04
	<i>Hydroporus tristis</i>	0.246	0.007
	<i>Enochrus ochropterus</i>	0.246	0.004
	<i>Hydroporus nigrita</i>	0.238	0.018
	<i>Ilybius quadriguttatus</i>	0.234	0.05
	<i>Haliphus flavicollis</i>	0.231	0.035
<i>Aeshna juncea</i>	0.223	0.015	
<i>Hydroporus obscurus</i>	0.215	0.026	
<i>Valvata cristata</i>	0.215	0.029	
<i>Sigara scotti</i>	0.198	0.035	
Urban ponds	<i>Crangonyx pseudogracilis</i>	0.688	0.001
	<i>Lymnaea stagnalis</i>	0.499	0.001
	<i>Gammarus pulex</i>	0.480	0.001
	<i>Planorbarius corneus</i>	0.468	0.001
	<i>Potamopyrgus antipodarum</i>	0.442	0.001
	<i>Hydrometra stagnorum</i>	0.409	0.003
	<i>Erpobdella testacea</i>	0.406	0.001
	<i>Physa fontinalis</i>	0.368	0.001
	<i>Dugesia polychroa</i>	0.354	0.001
	<i>Aeshna grandis</i>	0.347	0.002
	<i>Dugesia tigrina</i>	0.338	0.001
	<i>Phryganea bipunctata</i>	0.328	0.001
	<i>Caenis horaria</i>	0.306	0.035
	<i>Haliphus confinis</i>	0.295	0.003
	<i>Dendrocoelum lacteum</i>	0.294	0.001
	<i>Mystacides longicornis</i>	0.290	0.001
	<i>Cataclysta lemnata</i>	0.285	0.001
	<i>Physa acuta</i>	0.284	0.009
	<i>Agraylea multipunctata</i>	0.281	0.001

<i>Micronecta poweri</i>	0.280	0.001
<i>Notonecta maculata</i>	0.265	0.001
<i>Cyrnus trimaculatus</i>	0.253	0.001
<i>Hesperocorixa moesta</i>	0.250	0.018
<i>Ilyocoris cimicoides</i>	0.250	0.002
<i>Libellula depressa</i>	0.247	0.004
<i>Hemicleptis marginata</i>	0.237	0.011
<i>Anax imperator</i>	0.228	0.028
<i>Limnephilus decipiens</i>	0.220	0.004
<i>Aeshna mixta</i>	0.217	0.001
<i>Zonitoides nitidus</i>	0.217	0.002
<i>Piscicola geometra</i>	0.214	0.013
<i>Caenis rivulorum</i>	0.189	0.015
<i>Agraylea sexmaculata</i>	0.189	0.02
<i>Molanna angustata</i>	0.189	0.012
<i>Hygrotus versicolor</i>	0.182	0.039
<i>Paracorixa concinna</i>	0.177	0.008
<i>Gammarus lacustris</i>	0.177	0.011
<i>Radix balthica</i>	0.177	0.008
<i>Limnephilus binotatus</i>	0.168	0.041
<i>Agrypnia pagetana</i>	0.168	0.034

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## References

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