APPENDIX S1: SUPPLEMENTARY METHODS

Authors: Juliane Vigneault^{1,2,*}; Sandra Ann Binning^{1,2}; Éric Harvey^{1,2,3}

¹ Département de sciences biologiques, Université de Montréal, Montréal, Québec, Canada

² Groupe de recherche interuniversitaire en limnologie (GRIL), Département de sciences biologiques, Université

de Montréal, Montréal, Québec, Canada

³ Département des sciences de l'environnement, Université du Québec à Trois-Rivières, Trois-Rivières, Québec,

Canada

Manuscript title: "Local environment and sampling bias drive parasite prevalence estimates in

freshwater fish communities"

Journal: Ecology

^{*}Present address : Département de biologie, chimie et géographie, Université du Québec à Rimouski, Rimouski, Québec, Canada

TABLE S1. Geographical and morphometric lake characteristics of the 15 lakes sampled.

Lake	W atershed ¹	Latitude ²	Longitude ²	Area (km²)²	Maximum depth (m) ²	Mean depth (m) ²	Residence time (year) ²	Drainage area (km²)²	Elevation (m) ²	Perimeter (m) ³	Distance to nearest lake (m) ^{3,4}
Achigan	Achigan	45°56'34" N	73°58'41" W	5.320	26.5	12.3	1.18	97.060	209.0	22834.0	1459.406
Beaver	Achigan	45°55'30" N	74°03'50" W	0.037	6.2	2.0	0.85	0.151	360.0	924.0	272.174
Coeur	Coeur	45°58'06" N	74°00'36" W	0.437	7.6	3.1	1.30	1.736	349.0	7359.4	999.039
Cornu	Cornu	45°52'53" N	74°00'02" W	0.218	15.3	6.3	2.30	1.059	236.8	3533.0	845.637
Corriveau	Achigan	45°58'38" N	74°00'03" W	0.057	14.4	6.8	0.06	11.230	324.5	1332.1	959.488
Croche	Achigan	45°59'34" N	74°00'34" W	0.179	11.4	4.7	1.40	1.072	358.7	4550.9	452.447
Cromwell	Achigan	45°59'21" N	73°59'55" W	0.102	9.8	3.5	0.08	8.136	336.8	1916.9	785.556
Echo	Echo	45°53'14" N	74°01'24" W	1.600	9.0	1.8	0.43	12.020	233.0	12151.0	809.508
Fournelle	Connelly	45°54'53" N	74°02'28" W	0.189	8.4	2.9	0.22	4.390	279.6	3082.2	785.674
Montaubois	Achigan	45°55'20" N	74°04'23" W	0.166	32.6	13.7	7.80	0.508	350.0	2359.6	514.664
Morency	Morency	45°55'40" N	74°02'09" W	0.256	20.3	8.8	0.60	2.380	271.0	2934.6	1131.794
Pin rouge	Achigan	45°57'39" N	74°02 ' 28" W	0.152	14.0	4.9	0.17	7.560	322.0	2181.6	511.121
St-Onge	Connelly	45°54'52" N	73°57'44" W	0.014	3.5	1.8	0.05	0.875	216.7	492.1	1580.956
Tracy	Achigan	45°55'38" N	74°03'57" W	0.083	24.5	8.2	1.40	0.881	345.2	1291.5	272.174
Triton	Achigan	45°59'16" N	74°00'29" W	0.017	4.3	2.5	0.46	0.163	364.0	680.0	452.447

¹ The data was extracted from the government of Québec documentation (Atlas de l'eau).

² The data was extracted from the bathymetric maps available on https://crelaurentides.org/atlas-des-lacs/.

³ The estimations were computed on QGIS.

⁴ The measurement was made from centroid to centroid.

TABLE S2. Determination of the sampling effort within lakes according to the lake area.

					T .
Area class (km ²)	Nb. lakes	Nb. transects	Nb. seine nets	Nb. minnow traps	Nb. samplings
]0; 0.1[5	2	4	15	21
[0.1; 0.2[5	3	5	15	23
[0.2; 1.0[3	4	6	15	25
[1.0; 2.0[1	5	7	15	27
[2;[1	6	8	15	29

Table S3. Fishing gear dimensions.

ine net ine net now trap now trap now trap now trap now trap	1450 1840 40 40 40 40 58	23 23 23 23 23 23 NA	3.0 2.0 0.2 0.2 0.2 0.2	NA NA NA NA NA NA	NA NA 5 5 5 5
now trap now trap now trap now trap now trap	40 40 40 40 40 58	23 23 23 23 23	0.2 0.2 0.2 0.2	NA NA NA	5 5 5
now trap now trap now trap now trap	40 40 40 40 58	23 23 23 23	0.2 0.2 0.2	NA NA	5
now trap now trap now trap	40 40 40 58	23 23	0.2	NA NA	5
now trap	40 40 58	23	0.2	NA	5
now trap	40 58	23	0.2		
now trap	58		DO MARKS	NA	5
		NA	19 - V)25 N		
now tran	20.878-20		1.0	30	13
now trap	58	NA	1.0	30	13
now trap	58	NA	1.2	30	13
now trap	58	NA	1.2	30	13
now trap	60	NA	1.3	30	13
now trap	59	NA	2.0	30	15
now trap	42	23	0.2	NA	5
now trap	40	23	0.2	NA	5
now trap	42	23	0.2	NA	5
now trap	40	23	0.2	NA	.5
now tran	58	NA	1.0	30	13
۳, ۳, ۳,	58	NA	1.2	30	13
r	now trap	now trap 42 now trap 40 now trap 58	now trap 42 23 now trap 40 23 now trap 58 NA now trap 58 NA	now trap 42 23 0.2 now trap 40 23 0.2 now trap 58 NA 1.0 now trap 58 NA 1.2	now trap 42 23 0.2 NA now trap 40 23 0.2 NA now trap 58 NA 1.0 30

² Rounded minnow trap