

**Table 1. List of study streams with geographical location, hydrological type and measured physical and chemical values.**

Stream Name	Area	Latitude	Longitude	Type	TN mg/L	TP mg/L	Conductivity uS/cm	O <sub>2</sub> mg/L	pH	Water Temperature °C	Catchment area km <sup>2</sup>	Catchment Perimeter km
Pangertok Brook	TMNP	N58° 23.543'	W63° 05.499'	NA	0.1	NA	NA	NA	NA	NA	135.8	76.0
Kiyuktok River	Saglek	N58° 24.776'	W63° 59.040'	Nival	0.1	NA	68.0	10.8	NA	11.4	92.7	75.1
St. Johns Harbour Branch Tributary	TMNP	N58° 26.548'	W63° 40.594'	NA	0.1	NA	NA	NA	NA	NA	9.0	16.6
Torr Bay Branch Tributary	Saglek	N58° 26.607'	W64° 49.267'	Lake	0.1	NA	NA	NA	NA	12.6	57.6	49.8
St. Johns Harbour Tributary	TMNP	N58° 26.616'	W64° 46.908'	NA	0.1	NA	NA	NA	NA	NA	1.3	5.4
Tributary of Torr Bay Brook	Saglek	N58° 26.670'	W64° 48.686'	Nival	0.1	NA	NA	NA	NA	11.7	14.2	18.6
St. Johns Harbour Brook	Saglek	N58° 26.984'	W63° 47.446'	Nival	0.1	NA	30.0	10.1	7.6	14.8	16.0	19.9
Southwest Arm River	Saglek	N58° 27.186'	W63° 44.283'	Nival	0.1	NA	23.0	11.5	7.4	11.1	557.9	232.0
Tributary of Southwest Arm River	Saglek	N58° 28.027'	W63° 33.384'	Nival	0.1	0.0	73.0	10.5	NA	8.4	16.3	19.0
Sukaluk River - Upper	Koroc	N58° 28.807'	W65° 34.497'	Nival	0.1	NA	10.0	10.6	NA	11.4	420.8	155.8
Saglek Radar Central	TMNP	N58° 29.047'	W64° 39.645'	NA	0.1	NA	NA	NA	NA	NA	9.9	13.1
Saglek Radar	TMNP	N58° 29.058'	W63° 39.475'	NA	0.1	NA	NA	NA	NA	NA	4.1	9.9
Nakvak Brook	TMNP	N58° 30.256'	W63° 18.427'	NA	0.1	NA	NA	NA	NA	NA	859.8	222.7
Hudson Bay Post River	Saglek	N58° 31.693'	W63° 09.546'	Nival	0.1	NA	60.0	10.6	7.5	12.3	54.8	37.2
Tributary To North Arm	Saglek	N58° 33.021'	W63° 28.102'	Nival	0.1	NA	57.0	10.9	6.9	11.9	21.6	22.1
Jens Haven Island Brook	Saglek	N58° 34.170'	W64° 02.131'	Lake	0.0	NA	21.0	11.0	NA	12.3	40.1	32.1
Sukaluk River - Lower	Koroc	N58° 35.525'	W64° 42.348'	Nival	0.1	NA	13.0	11.2	NA	9.8	662.7	288.3
Torr Bay	TMNP	N58° 26.077'	W62° 51.189'	Nival	NA	NA	NA	NA	NA	NA	NA	NA
Koroc River	Koroc	N58° 38.116'	W63° 15.407'	Nival	0.1	0.0	22.0	10.1	NA	14.4	3407.5	691.7
Naksanulak River	Koroc	N58° 39.267'	W63° 27.669'	Nival	0.1	NA	16.0	11.7	NA	11.2	195.3	114.9
Nakvak River	Saglek	N58° 39.449'	W63° 35.944'	Lake	0.1	NA	30.0	10.9	7.8	11.7	524.6	196.1
Naksaluk River	Koroc	N58° 42.930'	W63° 26.226'	Nival	0.1	NA	18.0	10.6	NA	12.7	152.4	110.7
Grenier River	Koroc	N58° 49.462'	W63° 38.955'	Nival	0.1	NA	15.0	10.7	3.8	8.8	421.9	125.8
Palmer River	TMNP	N58° 52.733'	W63° 53.878'	Lake	0.1	NA	30.0	11.1	NA	11.2	209.4	87.7
McCormick Brook	TMNP	N58° 56.855'	W68° 40.061'	Glacial	0.0	NA	19.0	12.3	7.1	9.2	65.7	50.5
Nachvak Lake Brook	TMNP	N58° 58.560'	W68° 15.338'	Lake	0.1	NA	17.0	10.8	NA	11.3	485.5	241.7
Tallek Arm Brook	TMNP	N58° 59.178'	W68° 53.929'	Nival	0.1	NA	60.0	10.7	NA	10.0	43.9	34.0
Lower McCormick Brook	TMNP	N59° 00.112'	W68° 44.530'	Glacial	0.0	NA	22.0	10.6	7.4	11.7	120.0	50.0
Timulyarvik Cove River	TMNP	N59° 01.569'	W68° 31.972'	Nival	0.0	NA	41.0	11.0	7.4	10.8	75.3	53.0
Merkuratsuk Brook	TMNP	N59° 1.9393'	W68° 35.921'	NA	0.1	NA	NA	7.2	8.2	NA	19.1	19.3
Seal Cove Brook	TMNP	N59° 2.3176'	W68° 47.373'	NA	0.1	NA	NA	NA	NA	NA	15.7	18.4
Naksaluk Brook	TMNP	N59° 3.7527'	W68° 26.626'	NA	0.1	NA	NA	NA	7.9	10.4	13.4	17.3
Tasiuyuk Brook	TMNP	N59° 4.2730'	W68° 59.124'	NA	NA	NA	NA	NA	NA	NA	NA	NA
Townley Brook	TMNP	N59° 4.7434'	W68° 54.170'	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. Continued from previous page.

Stream Name	Area	Latitude	Longitude	Type	TN mg/L	TP mg/L	Conductivity uS/cm	O <sub>2</sub> mg/L	pH	Water Temperature °C	Catchment area km <sup>2</sup>	Catchment Perimeter km
Schooner Cove Brook	TMNP	N59° 5.9022'	W68° 31.100'	NA	0.0	NA	NA	NA	7.5	10.4	15.4	21.3
Apex River	Iqaluit	N63° 43.940'	W77° 27.052'	NA	0.1	NA	72.0	NA	NA	NA	52.7	49.3
Airport Creek	Iqaluit	N63° 45.051'	W77° 31.903'	NA	0.4	NA	220.0	NA	NA	NA	14.9	26.1
Unnamed stream	Iqaluit	N63° 45.096'	W78° 31.3404'	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tributary to Apex River	Iqaluit	N63° 45.523'	W78° 27.4937'	NA	0.1	NA	68.0	NA	NA	NA	10.8	18.6
Sylvia Grennel River	Iqaluit	N63° 45.931'	W77° 34.863'	NA	0.1	NA	40.0	NA	NA	NA	2930.7	548.2
Unnamed stream	Iqaluit	N63° 46.315'	W77° 51.116'	NA	0.1	NA	30.0	10.9	7.8	11.7	524.6	196.1
Unnamed stream	Iqaluit	N63° 46.552'	W80° 39.440'	NA	0.2	NA	117.0	NA	NA	NA	69.4	71.3
Peter Head Inlet - Irish Spring	Iqaluit	N63° 46.729'	W80° 44.008'	NA	0.2	NA	70.0	NA	NA	NA	88.3	78.1
Airport Creek	Iqaluit	N63° 47.243'	W79° 34.023'	NA	0.2	NA	101.0	NA	NA	NA	8.0	15.7
Burton River	Iqaluit	N63° 47.728'	W80° 21.635'	NA	0.1	NA	17.0	NA	NA	NA	344.1	154.8
Jordon River	Iqaluit	N63° 47.954'	W80° 59.553'	NA	0.1	NA	90.0	NA	NA	NA	537.9	171.5
1 <sup>st</sup> Tributary of Burton River	Iqaluit	N63° 48.800'	W79° 24.482'	NA	0.1	NA	49.0	NA	NA	NA	19.5	23.0
2 <sup>nd</sup> Tributary of Burton River	Iqaluit	N63° 52.834'	W79° 18.805'	NA	0.1	NA	11.0	NA	NA	NA	71.7	55.8
Unnamed stream	Iqaluit	N63° 56.110'	W81° 11.401'	NA	0.1	NA	11.0	NA	NA	NA	27.0	27.1
Tributary to Sylvia Grenne	Iqaluit	N63° 56.302'	W80° 38.362'	NA	0.1	NA	43.0	NA	NA	NA	77.1	59.1
Cabin Stream	Pond Inlet	N72° 31.745'	W79° 26.478'	Nival	0.2	NA	17.0	NA	NA	NA	86.0	66.8
Upper Tributary of Salmon River	Pond Inlet	N72° 32.311'	W81° 31.443'	Nival	0.1	NA	6.0	NA	NA	NA	41.4	42.4
Middle Tributary of Salmon River	Pond Inlet	N72° 33.625'	W79° 45.492'	Nival	0.2	NA	9.0	NA	NA	NA	16.7	34.5
Utuk River Tributary	Pond Inlet	N72° 36.988'	W81° 07.878'	Nival	0.1	NA	19.0	NA	NA	NA	36.7	49.7
Utuk River Lower Tributary	Pond Inlet	N72° 39.742'	W81° 02.995'	Nival	0.2	NA	35.0	NA	NA	NA	18.8	46.0
Nonet Stream (gravel pit)	Pond Inlet	N72° 40.248'	W80° 57.341'	Nival	0.1	NA	16.0	NA	NA	NA	41.8	42.6
Pond Inlet Stream	Pond Inlet	N72° 41.651'	W81° 56.206'	Nival	0.1	NA	14.0	NA	NA	NA	9.8	26.8
Lower Borden River Tributary	BP	N72° 44.098'	W80° 23.135'	Lake	0.1	NA	113.0	NA	NA	NA	31.0	32.7
Lower Borden River Main	BP	N72° 44.151'	W80° 22.908'	Nival	0.1	NA	149.0	NA	NA	NA	534.2	212.8
Unnamed stream	Bylot Island	N72° 46.282'	W94° 08.200'	Nival	0.2	NA	174.0	NA	NA	NA	155.1	100.8
Pond Stream in Borden Inlet	BP	N72° 47.948'	W94° 20.863'	Lake	0.2	NA	152.0	NA	NA	NA	14.4	21.5
Pond Stream	BP	N72° 49.021'	W94° 28.497'	Lake	0.1	NA	47.0	NA	NA	NA	58.6	50.1
Glacial River Main channel	Bylot Island	N72° 52.059'	W95° 53.684'	Glacial	0.0	NA	12.0	NA	NA	NA	493.5	208.9
Slump Brook	Bylot Island	N72° 52.209'	W73° 53.415'	Nival	0.2	NA	177.0	NA	NA	NA	25.9	44.5
1 <sup>st</sup> Tributary of Mala River	BP	N72° 52.324'	W73° 4.3698'	Nival	0.1	NA	156.0	NA	NA	NA	177.1	82.1
Mala River Lower Tributary	BP	N72° 54.883'	W72° 41.385'	Nival	0.1	NA	308.0	NA	NA	NA	42.5	35.6
Glacial River - Main channel	Bylot Island	N72° 57.341'	W69° 18.770'	Glacial	0.0	0.4	8.0	NA	NA	NA	31.3	40.1
Mala River Main channel	BP	N72° 57.359'	W69° 11.703'	Glacial	0.1	NA	99.0	NA	NA	NA	2405.8	359.7

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**Table 1. Continued from previous page.**

Stream Name	Area	Latitude	Longitude	Type	TN mg/L	TP mg/L	Conductivity uS/cm	O <sub>2</sub> mg/L	pH	Water Temperature °C	Catchment area km <sup>2</sup>	Catchment Perimeter km
Tributary of Glacial River	Bylot Island	N72° 57.404'	W72° 19.721'	Glacial	0.1	0.1	11.0	NA	NA	NA	153.1	97.0
2 <sup>nd</sup> Tributary of Mala River	BP	N72° 57.408'	W71° 12.207'	Nival	0.1	NA	142.0	NA	NA	NA	5.8	13.3
3 <sup>rd</sup> Tributary to Mala River	BP	N72° 57.675'	W71° 09.423'	Nival	0.1	0.0	157.0	NA	NA	NA	14.5	25.3
Black Pebble Creek	Bylot Island	N72° 58.820'	W71° 04.775'	Nival	0.8	0.0	171.0	NA	NA	NA	11.9	39.1
4 <sup>th</sup> Tributary of Mala River	BP	N73° 00.490'	W71° 16.152'	Glacial	0.0	0.0	30.0	NA	NA	NA	426.0	145.0
Unnamed stream	Bylot Island	N73° 02.914'	W71° 04.824'	Nival	0.8	NA	212.0	NA	NA	NA	92.2	60.1
Angry Crane River-Island	Bylot Island	N73° 08.156'	W70° 03.1327'	Nival	0.2	NA	94.0	NA	NA	NA	84.2	59.5
Unnamed River	Resolute Bay	N74° 40.972'	W68° 47.688'	Groundwater	0.5	NA	279.0	NA	NA	NA	15.5	21.9
Resolute Creek	Resolute Bay	N74° 41.028'	W71° 54.667'	Lake	NA	NA	NA	NA	NA	NA	NA	NA
Mecham River	Resolute Bay	N74° 41.418'	W69° 49.273'	Groundwater	0.9	NA	319.0	NA	NA	NA	93.7	64.6
North Lake River Inlet	Resolute Bay	N74° 46.318'	W69° 05.421'	Groundwater	0.0	NA	336.0	NA	7.5	9.6	79.6	67.5
North Lake River Outlet	Resolute Bay	N74° 46.774'	W68° 7.203'	Lake	0.3	NA	195.0	NA	NA	NA	82.0	68.5
Tributary of Very River	Lake Hazen	N81° 32.950'	W68° 35.757'	Groundwater	0.3	NA	482.0	NA	NA	NA	30.4	36.5
Very River	Lake Hazen	N81° 32.97'	W68° 35.046'	Glacial	0.2	0.1	146.0	NA	NA	NA	1026.6	274.3
Adams River	Lake Hazen	N81° 35.761'	W73° 35.319'	Glacial	0.1	0.1	63.0	NA	NA	NA	181.5	78.9
Traverse River	Lake Hazen	N81° 39.885'	W72° 01.510'	Groundwater	0.8	NA	445.0	NA	NA	NA	143.3	81.5
Tributary to Ruggles River	Lake Hazen	N81° 43.141'	W69° 25.512'	Groundwater	0.8	NA	573.0	NA	NA	NA	402.3	139.2
Ruggles River	Lake Hazen	N81° 43.459'	W69° 26.653'	Lake	0.1	0.2	110.0	NA	NA	NA	7438.8	677.8
Henrietta Brook	Lake Hazen	N81° 46.138'	W72° 24.076'	Groundwater	0.2	NA	358.0	NA	NA	NA	15.8	22.3
Mala River Lower Tributary	BP	N72° 54.883'	W72° 41.385'	Nival	0.1	NA	308.0	NA	NA	NA	42.5	35.6
Glacial River - Main channel	Bylot Island	N72° 57.341'	W69° 18.770'	Glacial	0.0	0.4	8.0	NA	NA	NA	31.3	40.1
Mala River Main channel	BP	N72° 57.359'	W69° 11.703'	Glacial	0.1	NA	99.0	NA	NA	NA	2405.8	359.7
Piarmigan Creek	Lake Hazen	N81° 47.383'	W71° 55.938'	Glacial	0.2	0.1	238.0	NA	NA	NA	24.1	24.2
Blister Creek	Lake Hazen	N81° 49.147'	W71° 31.741'	Glacial	0.2	0.4	127.0	9.6	NA	13.8	38.4	35.6
Lake Hazen basecamp creek	Lake Hazen	N81° 49.435'	W71° 20.182'	NA	NA	NA	NA	NA	NA	NA	NA	NA
Skeleton Creek	Lake Hazen	N81° 49.906'	W71° 20.197'	Groundwater	0.3	NA	590.0	NA	NA	NA	4.4	8.1
Muskox Cree	Lake Hazen	N81° 50.332'	W71° 20.197'	Groundwater	0.2	0.0	462.0	NA	NA	NA	0.6	3.0
Cuesa Brook	Lake Hazen	N81° 52.837'	W70° 12.9049'	Groundwater	0.1	NA	244.0	NA	NA	NA	51.2	49.3
Salor Creek	Lake Hazen	N81° 54.156'	W68° 54.457'	Lake	0.2	NA	357.0	NA	NA	NA	245.3	84.4
Abbe River	Lake Hazen	N81° 54.42'	W71° 05.457'	Glacial	0.1	0.4	91.0	NA	NA	NA	370.5	116.7
Mesa Creek	Lake Hazen	N81° 54.972'	W69° 46.093'	Glacial	NA	NA	NA	NA	NA	NA	NA	NA
Mesa Creek	Lake Hazen	N81° 55.039'	W69° 46.105'	Groundwater	0.1	NA	109.0	NA	NA	NA	92.2	63.5
Tributary of Snow Goose	Lake Hazen	N81° 55.234'	W68° 43.978'	Glacial	0.2	NA	261.0	NA	NA	NA	51.7	35.0
1 <sup>st</sup> Tributary of Turnabout River	Lake Hazen	N82° 01.647'	W68° 43.978'	Groundwater	0.1	0.1	129.0	NA	NA	NA	105.8	77.7
2 <sup>nd</sup> Tributary of Turnabout River	Lake Hazen	N82° 01.717'	W68° 43.939'	Groundwater	0.1	0.0	242.0	NA	NA	NA	35.5	29.7

TN, total nitrogen; TP, total phosphorus; TMMP, Torngats Mountain National Park; BP, Borden Peninsula; NA, not available.

Table 2. Some larval characters measured from the specimens collected in the study. All measurements are in  $\mu\text{m}$  unless otherwise noted.

A)	Larvae (mm)	HL	HW	HL/HW	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	A <sub>5</sub>	A <sub>6</sub>	A <sub>7</sub>	Flagellum	AR	Blade	B <sub>2</sub>
<b>Podonominae</b>															
<i>Parochlus kiefferi</i>	4.9	413.6	372.2	1.1	63.4	18.4	7.7	3.2	3.9	33.2	1.9	25.9	1.9	25.9	8.6
<i>Trichotanypus posticalis</i> YI	3.4	347.1	342.6	1.0	65.4	23.2	11.5	4.0	3.5	42.2	1.6	37.3	1.6	37.3	—
<b>Tanypodinae</b>															
<i>Procladius (Holotanypus) sp.</i>	9.9	1010.4	949.3	1.1	173.3	19.2	3.3	2.4	—	25.0	6.9	27.8	6.9	27.8	9.2
<i>Conchapelopia</i> sp. A	9.2	817.2	719.1	1.1	343.5	52.5	6.4	5.3	—	64.2	5.3	55.2	5.3	55.2	12.2
<i>Thienemanimyia</i> sp.	6.5	719.8	666.2	1.1	256.7	33.2	6.9	5.1	—	45.2	5.7	30.8	5.7	30.8	11.3
<b>Diamesinae</b>															
<i>Diamesa amplexivirita</i>	3.7	350.8	439.3	0.8	27.3	8.4	5.6	3.4	3.9	21.4	1.3	17.4	1.3	17.4	9.7
<i>Diamesa arctica</i>	3.9	448.2	441.2	1.0	49.6	13.3	7.6	3.3	2.2	26.3	1.9	31.3	1.9	31.3	—
<i>Diamesa spinacies</i>	5.3	534.7	394.0	1.4	58.5	11.4	9.0	2.8	3.8	26.9	2.2	17.6	2.2	17.6	7.7
<i>Pagastia orthogonia</i>	5.0	681.1	464.3	1.5	30.3	20.7	5.1	3.1	4.1	33.0	0.9	10.8	0.9	10.8	—
<i>Pseudodiamesa (s.s.) brantickii</i>	11.6	627.2	496.4	1.3	116.8	30.9	8.1	3.1	3.6	45.7	2.6	37.0	2.6	37.0	10.4
<i>Pseudokiefferiella</i> sp. 1 Doughman	3.0	379.9	313.4	1.2	74.5	13.4	6.5	5.2	5.3	30.4	2.5	—	2.5	—	—
<i>Pseudokiefferiella</i> sp. 1 Doughman YI	3.0	212.4	188.6	1.1	15.8	8.9	3.9	2.5	2.4	17.7	0.9	—	0.9	—	—
<i>Pseudokiefferiella</i> sp.	5.6	324.4	333.7	1.0	47.5	12.6	6.3	3.4	2.2	24.5	1.9	24.2	1.9	24.2	—
<b>Orthoclaudiinae</b>															
<i>Chaetocladus dentiforceps</i> group	3.9	255.9	234.9	1.1	27.2	6.8	3.2	2.4	2.9	15.3	1.8	15.3	1.8	15.3	5.6
<i>Chaetocladus (s.s.) piger</i>	2.9	398.6	348.0	1.1	55.7	15.1	3.1	3.9	4.0	26.1	2.1	21.5	2.1	21.5	10.7
<i>Corynoneura</i> sp. 1	1.5	195.4	135.2	1.4	80.3	52.8	54.7	3.7	—	111.2	0.7	16.6	—	16.6	—
<i>Corynoneura</i> sp. 2	0.2	229.4	150.4	1.5	123.6	75.1	77.5	5.1	—	157.7	0.8	33.8	—	33.8	—
<i>Cricotopus (s.s.) bicinctus</i>	47.2	410.3	414.3	1.0	42.5	14.8	5.8	3.1	3.9	—	—	27.6	1.5	24.9	—
<i>Cricotopus (s.s.) tibialis</i>	2.7	280.4	286.0	1.0	28.2	9.7	4.3	2.9	2.7	—	—	19.6	1.4	14.3	6.4
<i>Cricotopus (s.s.) tremulus</i> group	4.1	427.9	446.4	1.0	54.5	12.1	7.0	5.9	4.5	—	—	29.6	1.8	28.5	9.7
<i>Cricotopus (s.s.) triannulatus</i>	4.5	389.4	369.9	1.1	49.1	12.6	4.5	3.6	4.2	—	—	24.8	2.0	24.4	9.8
<i>Cricotopus (Iso.) intersectus</i> YI	1.2	228.7	245.5	0.9	17.1	8.6	4.7	4.3	2.9	—	—	20.5	0.8	22.5	—
<i>Cricotopus (Iso.) laricomalis</i>	4.5	414.7	397.7	1.0	42.3	15.5	7.5	5.7	3.9	—	—	32.5	1.3	33.0	11.2
<i>Cricotopus (Iso.) reversus</i> group	4.7	417.4	349.4	1.2	60.7	11.7	5.0	4.0	4.4	—	—	25.0	2.4	26.9	—
<i>Diplocladius cultriger</i>	5.9	311.0	381.5	0.8	54.1	14.2	3.9	3.3	1.8	—	—	23.2	2.3	19.6	5.0
<i>Diplocladius cultriger</i> YI	1.4	99.9	103.4	1.0	49.8	14.9	5.9	1.5	1.1	—	—	23.5	2.1	—	—
<i>Doncricotopus</i> cf. <i>bicaudatus</i> YI	—	213.3	236.9	0.9	23.7	10.4	3.0	1.6	2.9	—	—	17.9	—	15.6	—
<i>Eukiefferiella brehmi</i> group	3.3	320.1	240.3	1.3	43.0	16.3	3.8	5.1	4.7	—	—	29.9	1.4	26.9	—
<i>E. brevicar</i> group Bode sp. 3 YI	2.5	230.8	217.9	1.1	27.7	10.3	2.6	3.9	3.3	—	—	20.1	1.4	—	—
<i>E. claripennis</i> group Bode sp. 3	2.9	254.9	256.6	1.0	35.0	11.3	2.5	4.5	—	—	—	18.3	1.9	—	—
<i>Eukiefferiella cyanea</i> group	3.3	295.2	270.2	1.1	29.0	9.5	3.5	3.5	4.2	—	—	16.4	1.4	23.8	—
<i>Eukiefferiella rectangularis</i> group	3.7	367.0	362.9	1.0	56.7	15.1	6.3	6.9	4.7	—	—	28.3	1.7	27.4	—
<i>Eukiefferiella tirolensis</i>	3.4	319.3	289.1	1.1	57.1	16.9	4.6	3.7	4.0	—	—	25.1	2.0	21.1	6.9
<i>Euryhapsis cilium</i>	9.8	469.7	391.8	1.2	74.4	19.2	10.4	3.0	—	—	—	32.6	2.3	75.0	10.8
<i>Heterotanytarsus peerennis</i> YI	1.4	121.2	82.3	1.5	27.2	49.3	9.9	5.6	—	—	—	64.8	0.4	53.2	—
<i>Heterotrissocladus marcidus</i> group YI	2.8	243.7	251.1	1.0	39.5	22.9	4.1	14.5	4.8	3.1	2.4	41.6	0.9	41.3	—
<i>Hydrobaenus fusistylus</i>	5.0	310.2	295.3	1.1	44.5	15.7	5.6	4.3	4.5	2.5	—	25.6	1.5	32.8	—
<i>Hydrobaenus conformis</i> group	2.6	314.3	277.4	1.1	25.9	11.2	3.4	2.7	2.3	0.8	—	17.3	1.3	22.8	—
<i>Hydromittia</i> sp. 1	4.1	219.5	234.9	0.9	8.3	2.4	1.7	2.3	—	—	—	6.2	1.3	7.9	4.9
<i>Hydromittia</i> sp. 2	3.4	241.7	264.5	0.9	7.1	2.4	1.7	1.7	—	—	—	5.9	1.2	8.3	—

To be continued on next page

Table 2. Continued from previous page.

A)	Larvae (mm)	HL	HW	HL/HW	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	A <sub>5</sub>	A <sub>6</sub>	A <sub>7</sub>	Flagellum	AR	Blade	B <sub>2</sub>
<b>Orthocladinae</b>															
<i>Hydrosmitia</i> sp. 3	3.2	273.9	272.7	1.0	6.2	3.5	1.9	2.1	—	—	—	7.5	0.8	11.1	—
<i>Hydrosmitia</i> sp. 4	1.9	118.8	146.9	0.8	3.9	1.2	1.0	1.6	—	—	—	3.8	1.0	5.8	—
<i>Krenosmitia</i> sp.	2.8	194.0	202.7	1.0	30.9	18.4	1.7	1.1	1.1	—	—	22.3	1.4	19.9	—
<i>Limnophyes</i> sp. 1	1.9	277.8	301.0	0.9	36.2	10.1	3.4	5.2	3.2	—	—	22.0	1.6	44.9	—
<i>Limnophyes</i> sp. 2	5.3	358.1	326.4	1.1	42.4	14.8	3.1	2.9	1.9	—	—	22.8	1.9	21.3	—
<i>Metriocnemus</i> (s.s.) <i>eurynotus</i>	4.1	425.5	384.0	1.1	88.4	25.7	4.3	5.8	9.1	—	—	44.9	2.0	68.0	—
<i>Metriocnemus</i> (s.s.) <i>eurynotus</i> YI	1.5	223.1	202.0	1.1	44.4	16.4	5.7	6.2	3.9	—	—	32.3	1.4	52.5	—
<i>Metriocnemus</i> (s.s.) cf. <i>fuscipes</i> YI	2.0	167.6	152.8	1.1	5.8	2.6	2.6	1.0	—	—	—	6.1	1.0	9.8	—
<i>Metriocnemus</i> sp. 1	3.9	410.3	364.7	0.6	37.8	9.0	3.5	3.1	2.7	—	—	18.4	2.1	22.1	—
<i>Nanocladus</i> (s.s.) <i>dichromus</i> group	4.0	294.2	273.5	0.6	45.8	19.4	7.6	2.7	1.4	—	—	31.0	1.5	23.9	—
<i>Nanocladus</i> (Plec.) sp. 1 YI	1.7	190.9	169.9	1.1	28.4	17.9	5.0	2.0	2.1	—	—	26.9	1.1	21.1	—
<i>Nanocladus</i> (Plec.) sp. 2	2.8	348.3	335.8	1.0	51.1	17.6	7.9	2.5	1.7	—	—	29.7	1.7	28.6	—
<i>Oliveridia tricornis</i>	6.6	283.7	337.2	0.8	42.7	15.1	4.1	3.6	2.5	1.4	—	26.6	1.6	25.9	6.9
<i>Orthocladus</i> (Euor.) <i>luteipes</i>	—	—	—	—	44.6	10.0	5.2	4.4	4.3	—	—	23.9	1.9	16.0	6.7
<i>Orthocladus</i> (Euor.) <i>luteipes</i> YI	1.3	159.8	149.2	1.1	—	—	—	—	—	—	—	—	—	—	—
<i>Orthocladus</i> (Euor.) <i>saxosus</i>	4.1	328.9	333.6	1.0	34.4	8.9	4.1	3.8	3.7	—	—	20.5	1.7	26.7	—
<i>Orthocladus</i> (Euor.) <i>thienemanni</i>	6.6	411.9	404.9	1.0	50.7	9.2	6.0	3.3	3.0	—	—	21.5	2.4	18.3	—
<i>Orthocladus</i> (Meso.) <i>frigidus</i>	4.7	380.9	360.3	1.1	44.7	13.9	4.1	4.2	4.5	—	—	26.7	1.7	21.6	9.3
<i>Orthocladus</i> (Meso.) <i>rousellae</i>	7.1	540.9	572.3	0.9	60.6	12.9	4.4	3.4	5.0	—	—	25.7	2.4	24.8	—
<i>Orthocladus</i> (s.s.) <i>charensis</i>	6.5	423.6	423.4	1.0	56.1	16.0	4.0	3.3	4.3	—	—	27.6	2.0	17.0	4.7
<i>Orthocladus</i> (s.s.) cf. <i>clarkei</i>	2.8	258.8	237.1	1.1	24.8	9.5	3.8	3.0	3.0	—	—	19.2	1.3	16.5	—
<i>Orthocladus</i> (s.s.) <i>obumbratus</i>	4.6	479.7	454.6	1.1	57.0	12.0	7.1	4.7	3.8	—	—	27.6	2.1	33.1	—
<i>Orthocladus</i> (Synp.) <i>holsatus</i>	2.8	267.9	261.3	1.0	26.0	10.7	4.3	3.0	3.3	—	—	21.2	1.2	26.1	—
<i>Parabiefferiella</i> cf. <i>bathophila</i>	3.9	233.3	244.2	1.0	31.3	14.9	2.8	2.3	2.5	2.3	—	22.5	1.3	18.4	—
<i>Parabiefferiella</i> cf. <i>gracillima</i>	3.8	216.4	149.5	0.1	23.3	12.1	3.5	2.1	2.3	1.4	2.5	20.0	1.0	21.2	—
<i>Parametriocnemus boreopalpinus</i>	5.6	288.0	281.4	1.0	48.9	17.1	3.4	2.3	3.8	1.7	—	26.7	1.7	25.6	6.2
<i>Paraphaenocladus exagittans</i>	3.8	212.0	251.4	0.8	16.2	8.4	4.6	2.5	2.7	—	—	18.3	0.9	24.3	—
<i>Psectrocladius</i> (Allop.) <i>obivus</i>	6.0	859.8	765.3	1.1	125.4	18.9	10.5	5.3	4.6	—	—	39.3	3.2	26.1	—
<i>Psectrocladius</i> (s.s.) <i>sordidellus</i> group	—	—	—	—	102.5	13.1	5.7	5.6	3.6	—	—	27.9	3.7	24.4	—
<i>Pseudosmitia</i> sp.	3.4	202.6	183.8	1.1	4.5	1.7	1.0	1.9	3.6	—	—	8.2	0.6	6.8	—
<i>Rheocricotopus</i> (Psil.) <i>chalybeatus</i> group YI	2.4	238.9	213.7	1.1	25.9	8.7	6.1	3.9	4.4	—	—	23.0	1.1	14.6	—
<i>Rheocricotopus</i> (s.s.) <i>eminellobus</i>	2.0	210.3	207.8	1.0	27.8	13.6	7.2	5.9	6.3	—	—	33.0	0.8	24.1	—
<i>Rheosmitia</i> sp. A	2.7	153.9	144.1	1.1	52.3	65.1	2.5	2.0	10.9	—	—	80.6	0.6	46.8	—
<i>Smittia</i> sp.	4.0	272.9	229.8	1.2	24.7	20.2	2.1	3.1	—	—	—	25.4	1.0	28.3	—
<i>Synorthocladus semivirens</i>	4.0	288.3	299.2	1.0	60.8	9.0	18.8	6.7	4.3	—	—	38.7	1.6	27.3	10.0
<i>Thienemanniella boltoni</i>	2.1	232.6	198.9	1.2	84.6	31.5	33.0	2.9	4.7	—	—	72.1	1.2	—	—
<i>Thienemanniella caspersi</i>	1.9	269.0	220.5	1.2	78.2	26.0	17.9	3.2	4.4	—	—	51.6	1.5	24.2	—
<i>Thienemanniella</i> sp. A	2.7	274.8	251.3	1.1	84.2	37.5	28.8	3.2	4.0	—	—	73.5	1.1	29.4	—
<i>Thienemanniella taurocapita</i>	3.1	276.3	274.8	1.0	92.6	30.3	21.4	2.7	4.8	—	—	59.2	1.6	27.7	—
<i>Tvetenia</i> cf. <i>bavarica</i>	3.2	311.8	293.7	1.1	46.9	19.4	3.0	10.1	4.6	—	—	37.2	1.3	27.2	—
<i>Tvetenia discoloripes</i> group	5.2	299.7	337.5	0.9	66.1	11.7	3.6	5.0	5.2	—	—	25.5	2.6	23.5	—
<i>Tvetenia paucunca</i>	3.0	288.7	231.2	1.2	49.4	16.5	2.9	7.2	3.5	—	—	30.0	1.6	24.3	—
<i>Zalutschia</i> sp.	4.9	367.2	401.2	0.9	54.0	10.5	7.7	7.5	4.8	—	—	30.5	1.8	41.8	9.7
<b>Orthocladinae</b> genus "Bilyj"	2.0	121.3	142.8	0.8	6.7	9.1	4.1	2.7	—	—	—	15.9	0.4	16.5	3.9

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Table 2. Continued from previous page.

A)	Larvae (mm)													
	HL	HW	HL/HW	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	A <sub>5</sub>	A <sub>6</sub>	A <sub>7</sub>	Flagellum	AR	Blade	B <sub>2</sub>
<b>Chironominae</b>														
<i>Micropsectra</i> sp. 1	4.1	240.6	296.8	0.8	135.1	63.1	9.0	5.5	4.7	—	82.3	1.7	34.7	—
<i>Micropsectra</i> sp. 2	2.0	214.8	199.5	1.1	51.2	24.6	9.6	3.6	5.0	—	42.8	1.2	24.4	—
<i>Micropsectra</i> sp. 3	6.7	500.9	450.9	1.1	153.0	45.6	19.2	8.3	5.0	—	78.1	2.1	42.3	—
<i>Paratanytarsus</i> sp.	3.9	371.3	315.6	1.2	100.2	26.9	8.2	5.5	5.0	—	45.5	2.2	33.4	4.7
<i>Polypedium (Ures.) cf. flavum</i> YI	1.7	130.6	134.1	1.0	21.5	12.2	2.6	3.7	3.0	—	21.5	1.0	17.1	—
<i>Rheotanytarsus</i> sp.	4.3	286.2	252.7	1.1	95.3	22.4	9.3	4.5	4.1	—	40.2	2.4	30.7	8.4
<i>Saetheria tylus</i>	4.5	260.0	205.7	1.3	54.7	6.4	28.7	3.2	4.5	4.3	42.8	1.3	35.3	8.4
<i>Stempellina</i> sp.	2.5	305.5	239.0	1.3	—	—	—	—	—	—	—	—	—	—
<i>Tanytarsus chinynensis</i> group	2.0	172.4	188.6	0.9	69.3	19.4	19.1	9.0	4.1	—	51.6	1.3	25.7	—
<i>Tanytarsus</i> sp.	2.5	207.4	189.7	1.1	79.8	17.8	11.2	8.5	3.1	4.3	40.7	2.0	17.6	—
<b>B)</b>														
	Mentum L	Mentum W	Mentum L/W	Mandibles L	A <sub>1</sub> /M	Premandible L	VM L	VM W	Posterior parapod L	Posterior parapod W	Procercus L	Procercus W	Longest body setae	Anal setae L
<b>Podonominae</b>														
<i>Parochlus kiefferi</i>	54.9	125.9	0.4	144.4	0.4	—	—	—	277.9	137.4	21.9	45.3	328.9	629.1
<i>Trichotanypus posticalis</i> YI	46.3	70.0	0.7	106.8	0.6	—	—	—	—	—	161.3	46.2	161.6	215.9
<b>Tanypodinae</b>														
<i>Procladius (Holotanypus)</i> sp.	—	—	—	201.8	0.9	—	—	—	381.8	156.5	122.1	53.2	66.4	478.3
<i>Conchapelopia</i> sp. A	—	—	—	196.0	1.8	—	—	—	722.2	200.7	215.7	65.5	52.7	928.4
<i>Thienemannimyia</i> sp.	—	—	—	163.7	1.6	—	—	—	530.8	286.8	125.8	42.6	84.8	796.3
<b>Diamesinae</b>														
<i>Diamesa amplexivirila</i>	53.2	82.7	0.6	115.8	0.2	64.0	29.8	6.4	530.4	214.5	3.9	10.7	66.4	65.1
<i>Diamesa arctica</i>	65.1	89.7	0.7	190.5	0.3	102.4	36.0	5.8	79.8	40.7	9.5	20.1	52.7	209.7
<i>Diamesa spinacies</i>	66.2	141.6	0.5	145.2	0.4	115.4	55.6	12.4	551.9	250.4	10.6	44.6	84.8	100.2
<i>Pagastia orthogonia</i>	48.6	101.9	0.5	159.0	0.2	70.5	49.5	8.9	175.9	131.2	22.1	16.7	137.2	330.3
<i>Pseudodiamesa (s.s.) branickii</i>	154.6	108.1	1.4	188.2	0.6	91.2	—	—	678.2	414.8	58.6	43.9	—	578.3
<i>Pseudokiefferiella</i> sp. 1 Doughman	180.8	119.2	1.5	212.3	0.4	108.1	—	—	—	—	—	—	—	—
<i>Pseudokiefferiella</i> sp. 1 Doughman YI	49.2	26.1	1.9	66.9	0.2	36.9	—	—	152.0	106.1	14.3	13.1	112.3	191.8
<i>Pseudokiefferiella</i> sp.	50.0	95.0	0.5	145.4	0.3	66.6	—	—	518.6	182.6	25.6	20.6	118.5	283.3
<b>Orthoclaadiinae</b>														
<i>Chaetocladus dentiforceps</i> group	113.5	41.0	2.8	107.8	0.3	50.8	0.0	0.0	99.2	104.0	14.9	15.6	—	91.5
<i>Chaetocladus (s.s.) piger</i>	134.6	67.0	2.0	166.2	0.3	88.9	62.1	10.7	250.2	110.0	31.0	28.1	—	366.8
<i>Corynoneura</i> sp. 1	25.0	35.5	0.7	69.8	1.1	23.6	—	—	113.5	44.9	10.9	9.3	—	141.4
<i>Corynoneura</i> sp. 2	34.2	24.5	1.4	58.5	2.1	51.9	—	—	134.4	40.3	15.0	15.8	—	271.7
<i>Cricotopus (s.s.) bicinctus</i>	64.2	116.3	0.6	147.9	0.3	81.5	—	—	—	—	25.1	31.4	189.3	932.1
<i>Cricotopus (s.s.) tibialis</i>	111.7	67.7	1.6	113.4	0.2	—	—	—	—	—	16.3	19.4	266.5	627.4
<i>Cricotopus (s.s.) tremulus</i> group	103.1	161.5	0.6	147.7	0.4	108.1	119.1	16.4	209.1	139.9	28.5	24.1	123.2	539.4
<i>Cricotopus (s.s.) triannulatus</i>	87.3	149.5	0.6	177.4	0.3	104.5	—	—	162.5	115.2	15.8	21.2	112.6	600.9
<i>Cricotopus (Iso.) intersectus</i> YI	54.1	73.8	0.7	99.1	0.2	82.8	—	—	129.2	75.1	12.6	12.4	229.9	393.8
<i>Cricotopus (Iso.) laticornis</i>	100.2	128.1	0.8	185.1	0.2	97.0	—	—	157.8	116.9	21.0	22.6	366.3	989.3
<i>Cricotopus (Iso.) reversus</i> group	88.2	157.4	0.6	176.2	0.3	—	—	—	207.6	103.4	25.0	29.4	440.5	—
<i>Diplocladius cultriger</i>	164.8	58.4	2.8	124.5	0.4	76.9	77.0	7.8	266.0	165.5	45.7	30.2	593.3	—
<i>Diplocladius cultriger</i> YI	48.5	100.5	0.5	100.1	0.5	89.1	39.5	7.0	162.3	118.4	48.6	32.5	—	691.7

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Table 2. Continued from previous page.

B)	Mentum		Mentum		Mandibles	A <sub>1</sub> /M	Premandible		VM L	VM W	Posterior parapod		Posterior parapod W	Procercus L	Procercus W	Longest body setae	Anal setae L
	L	W	L	W			L	L			L	L					
<b>Orthocladinae</b>																	
<i>Doncricotopus cf. bicaudatus</i> YI	58.6	72.5	0.8	83.0	0.3	48.4	38.7	5.6	—	—	—	—	—	—	—	—	—
<i>Eukiefferiella brehmi</i> group	64.0	92.6	0.7	—	—	—	—	—	161.2	95.1	20.8	21.0	20.8	21.0	21.0	72.0	—
<i>E. brevicar</i> group Bode sp. 3 YI	44.9	41.9	1.1	—	—	78.5	—	—	190.2	81.9	14.2	12.8	14.2	12.8	12.8	91.5	216.2
<i>E. claripennis</i> group Bode sp. 3	37.7	55.0	0.7	83.1	0.4	—	—	—	153.7	87.6	15.6	21.6	15.6	21.6	21.6	61.8	289.8
<i>Eukiefferiella cyanea</i> group	43.6	62.4	0.7	94.9	0.3	—	—	—	243.6	109.1	6.3	11.7	6.3	11.7	11.7	113.4	—
<i>Eukiefferiella rectangularis</i> group	69.5	107.0	0.6	144.5	0.4	—	—	—	177.6	135.7	30.6	24.7	30.6	24.7	24.7	111.7	423.2
<i>Eukiefferiella tirolensis</i>	59.6	74.9	0.8	100.2	0.6	—	—	—	—	—	—	—	—	—	—	—	—
<i>Euryhapsis cilium</i>	105.5	151.3	0.7	153.4	0.5	105.8	108.2	—	254.4	160.3	39.9	50.4	39.9	50.4	50.4	180.0	586.1
<i>Heterotanytarsus perennis</i> YI	41.4	20.4	2.0	51.8	0.5	30.0	21.6	6.3	52.2	23.0	14.7	17.7	14.7	17.7	17.7	336.7	—
<i>Heterotrissocladus marcidus</i> group YI	62.3	86.4	0.7	110.4	0.4	55.0	73.3	20.2	98.8	59.2	19.4	27.8	19.4	27.8	27.8	500.2	—
<i>Hydrobaenus fusistylus</i>	62.2	127.9	0.5	132.3	0.3	82.9	62.5	10.2	172.9	103.9	19.4	27.8	19.4	27.8	27.8	547.8	—
<i>Hydrobaenus conformis</i> group	59.3	114.4	0.5	213.8	0.1	116.0	43.0	8.9	78.3	51.8	28.4	25.1	28.4	25.1	25.1	287.4	—
<i>Hydrosmittia</i> sp. 1	31.4	91.7	0.3	93.9	0.1	—	—	—	32.3	9.1	107.8	—	—	—	—	57.2	—
<i>Hydrosmittia</i> sp. 2	46.6	89.2	0.5	103.8	0.1	63.1	35.3	10.5	64.4	51.7	—	—	—	—	—	29.3	—
<i>Hydrosmittia</i> sp. 3	32.0	101.1	0.3	118.7	0.1	69.2	29.5	5.8	—	—	—	—	—	—	—	—	—
<i>Hydrosmittia</i> sp. 4	36.7	11.2	3.3	48.7	0.1	31.1	12.0	2.2	—	—	—	—	—	—	—	16.0	—
<i>Krenosmittia</i> sp.	35.8	52.3	0.7	74.2	0.4	44.5	—	—	135.6	59.5	35.3	24.2	35.3	24.2	24.2	1711.3	—
<i>Limnophyes</i> sp. 1	57.8	76.7	0.8	107.4	0.3	68.3	25.8	—	174.9	69.7	24.0	22.1	24.0	22.1	22.1	329.3	—
<i>Limnophyes</i> sp. 2	71.7	128.7	0.6	126.7	0.3	28.0	44.3	28.0	272.2	124.9	19.8	27.0	19.8	27.0	27.0	217.5	—
<i>Metriocnemus</i> (s.s.) <i>eurynotus</i>	128.3	200.9	0.6	256.4	0.3	144.9	—	—	240.4	134.2	47.0	37.2	47.0	37.2	37.2	265.1	—
<i>Metriocnemus</i> (s.s.) <i>eurynotus</i> YI	96.5	147.1	0.7	167.9	0.3	100.1	—	—	161.6	109.0	31.0	22.6	31.0	22.6	22.6	169.6	—
<i>Metriocnemus</i> (s.s.) cf. <i>fuscipes</i> YI	44.7	28.6	1.6	56.8	0.1	31.6	—	—	45.0	37.8	7.5	9.3	7.5	9.3	9.3	30.0	—
<i>Metriocnemus</i> sp. 1	62.0	107.1	0.6	143.6	0.3	82.8	—	—	176.4	112.3	51.8	31.1	51.8	31.1	31.1	84.8	210.6
<i>Nanocladius</i> (s.s.) <i>dichromus</i> group	31.8	85.3	0.4	92.0	0.5	47.1	89.5	17.3	234.3	140.8	22.3	18.5	22.3	18.5	18.5	283.3	—
<i>Nanocladius</i> (Pleco.) sp. 1 YI	18.9	49.2	0.4	71.0	0.4	33.0	41.3	8.0	97.7	44.6	12.5	12.7	12.5	12.7	12.7	182.6	—
<i>Nanocladius</i> (Pleco.) sp. 2	64.4	113.1	0.6	113.0	0.5	50.3	92.8	18.2	151.7	60.5	20.4	16.8	20.4	16.8	16.8	284.0	—
<i>Oliveridia tricornis</i>	140.0	40.1	3.5	128.9	0.3	80.2	68.2	14.4	320.6	213.4	22.6	28.2	22.6	28.2	28.2	770.0	—
<i>Orthocladus</i> (Euor.) <i>luteipes</i>	76.4	92.1	0.8	162.0	0.3	101.7	—	—	—	—	—	—	—	—	—	—	—
<i>Orthocladus</i> (Euor.) <i>luteipes</i> YI	22.6	40.3	0.6	58.1	—	—	—	—	36.4	35.4	—	—	—	—	—	136.2	—
<i>Orthocladus</i> (Euor.) <i>saxosus</i>	44.6	82.2	0.5	97.7	0.4	—	65.3	—	268.1	154.7	8.4	20.5	8.4	20.5	20.5	459.6	—
<i>Orthocladus</i> (Euor.) <i>thienemanni</i>	142.3	67.2	2.1	153.3	0.3	93.5	103.4	304.2	304.2	203.8	20.8	32.4	20.8	32.4	32.4	340.7	—
<i>Orthocladus</i> (Meso.) <i>frigidus</i>	126.4	68.1	1.9	164.3	0.3	118.8	—	—	215.2	103.7	20.0	17.4	20.0	17.4	17.4	325.2	—
<i>Orthocladus</i> (Meso.) <i>rousellae</i>	84.2	167.5	0.5	223.8	0.3	111.1	81.7	—	360.9	235.2	27.9	24.0	27.9	24.0	24.0	—	—
<i>Orthocladus</i> (s.s.) <i>charensis</i>	59.3	153.4	0.4	159.2	0.4	89.4	74.6	—	182.9	187.4	26.5	32.9	26.5	32.9	32.9	611.1	—
<i>Orthocladus</i> (s.s.) cf. <i>clarki</i>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<i>Orthocladus</i> (s.s.) <i>obumbratus</i>	161.7	68.5	2.4	165.9	0.3	108.7	—	—	—	—	22.6	21.2	22.6	21.2	21.2	512.1	—
<i>Orthocladus</i> (Synp.) <i>holsatus</i>	50.6	87.3	0.6	98.3	0.3	66.6	—	—	138.1	73.2	18.4	19.6	18.4	19.6	19.6	519.7	—
<i>Parakiefferiella</i> cf. <i>bathophila</i>	47.6	96.6	0.5	94.8	0.3	39.5	44.6	7.9	95.7	56.9	16.1	16.4	16.1	16.4	16.4	444.8	—
<i>Parakiefferiella</i> cf. <i>gracillima</i>	90.3	35.9	2.5	93.1	0.3	55.8	40.3	7.4	77.5	68.9	15.5	13.4	15.5	13.4	13.4	353.7	—
<i>Parametriocnemus borealpinus</i>	54.3	112.8	0.5	116.4	0.4	77.4	—	—	167.0	70.2	20.8	16.5	20.8	16.5	16.5	238.7	—
<i>Paraphaenocladus exagittans</i>	101.2	52.1	1.9	84.9	0.2	58.0	35.1	22.5	64.4	54.7	8.8	8.6	8.8	8.6	8.6	61.1	—
<i>Psectrocladius</i> (Allop.) <i>obovis</i>	162.6	79.3	2.0	247.7	0.5	104.4	96.3	20.2	168.4	232.2	32.3	42.7	32.3	42.7	42.7	634.6	—
<i>Psectrocladius</i> (s.s.) <i>sordidellus</i> group	94.8	202.8	0.5	244.5	0.4	119.1	127.2	30.5	—	—	—	—	—	—	—	—	—

To be continued on next page

Table 2. Continued from previous page.

B)	Mentum		Mentum LW	Mandibles		A <sub>1</sub> /M	Premandible		VM L	VM W	Posterior parapod L	Posterior parapod W	Procercus L	Procercus W	Longest body setae	Anal setae L
	L	W		L	L											
<b>Orthocladinae</b>																
<i>Pseudosmittia</i> sp.	37.6	77.0	0.5	96.0	0.0	—	26.5	5.9	54.2	67.3	—	—	—	—	—	—
<i>Rheocricotopus (Psil.) chalybeatus</i> group YI	43.3	68.4	0.6	89.9	0.3	56.2	46.4	8.7	90.5	57.9	18.8	14.9	—	—	—	336.4
<i>Rheocricotopus (s.s.) eminellobus</i>	48.8	70.8	0.7	92.5	0.3	46.2	42.2	9.2	105.4	41.9	13.6	11.7	—	—	38.7	308.1
<i>Rheosmittia</i> sp. A	20.9	44.9	0.5	34.0	1.5	—	—	—	130.0	41.1	14.1	10.3	—	—	42.4	288.2
<i>Smittia</i> sp.	43.4	88.7	0.5	100.4	0.2	—	—	—	—	—	—	—	—	—	—	—
<i>Synorthocladius semivirens</i>	47.0	65.6	0.7	96.7	0.6	70.3	—	—	139.3	59.9	16.3	13.6	—	—	166.3	289.4
<i>Thienemanniella boltoni</i>	54.3	73.3	0.7	64.7	1.3	—	—	—	88.5	37.3	9.6	8.2	—	—	—	199.8
<i>Thienemanniella caspersi</i>	43.0	48.8	0.9	72.3	1.1	54.8	—	—	119.6	59.6	10.6	8.3	—	—	—	144.8
<i>Thienemanniella taurocapita</i>	44.7	39.5	1.1	83.6	1.0	—	—	—	174.1	93.8	9.6	16.2	—	—	—	219.2
<i>Thienemanniella cf. babarica</i>	43.0	60.7	0.7	70.5	1.3	—	—	—	199.2	78.8	10.5	12.7	—	—	—	155.3
<i>Tvetenia discoloripes</i> grp.	54.3	85.4	0.6	90.3	0.5	74.7	—	—	183.1	89.5	30.2	14.8	—	—	248.7	364.6
<i>Tvetenia paucunca</i>	98.7	68.6	1.4	126.0	0.5	67.5	48.4	7.6	310.8	212.2	50.1	34.7	—	—	192.1	537.7
<i>Zalutschia</i> sp.	48.0	76.7	0.6	99.0	0.5	63.3	—	—	201.2	82.9	34.2	23.2	—	—	153.6	388.1
<b>Orthocladinae genus "Bilyj"</b>	169.4	82.2	2.1	179.8	0.3	82.9	93.5	12.5	132.9	102.8	54.6	42.3	—	—	—	637.1
	23.2	34.6	0.7	49.3	0.1	30.8	11.6	6.1	74.5	41.5	—	—	—	—	—	53.5
<b>Chironominae</b>																
<i>Microsetra</i> sp. 1	47.5	72.6	0.7	107.1	1.3	64.1	19.0	82.1	95.6	93.1	20.9	24.0	—	—	—	485.5
<i>Microsetra</i> sp. 2	29.9	57.3	0.5	80.9	0.6	48.2	17.1	36.2	56.8	46.5	18.6	7.8	—	—	—	349.8
<i>Microsetra</i> sp. 3	24.9	73.2	2.9	233.7	0.7	160.6	32.2	180.0	140.0	146.8	29.2	46.4	—	—	—	951.7
<i>Paratanytarsus</i> sp.	63.3	100.0	0.6	149.0	0.7	103.8	101.6	23.5	49.1	44.0	6.0	7.3	—	—	—	139.0
<i>Polypedilum (Ures.) flavum</i> YI	19.3	35.8	0.5	51.5	0.4	34.3	23.4	31.2	113.6	86.6	45.2	28.4	—	—	—	468.6
<i>Rheotanytarsus</i> sp.	41.8	86.3	2.1	111.8	0.9	65.2	23.1	85.4	117.6	70.4	13.1	20.7	—	—	—	386.9
<i>Saetheria tylus</i>	30.9	71.1	2.3	89.5	0.6	56.1	42.5	64.4	57.0	99.3	41.1	33.9	—	—	137.9	405.5
<i>Stempellina</i> sp.	25.6	79.0	0.3	79.6	—	45.2	29.2	59.3	60.4	53.6	16.1	16.2	—	—	—	331.9
<i>Tanytarsus chinensis</i> group	28.0	52.0	1.9	85.3	0.8	42.3	23.5	57.6	88.0	91.3	23.3	25.0	—	—	—	283.9
<i>Tanytarsus</i> sp.	33.5	74.1	2.2	101.2	0.8	52.6	26.2	72.0	—	—	—	—	—	—	—	—
<b>C)</b>																
	MP <sub>1</sub>	MP <sub>2</sub>	MP <sub>3</sub>	MP <sub>4</sub>	MP <sub>1</sub> W	MP <sub>1</sub> LW	MP <sub>1</sub> LW at RO	Ligula L	Ligula W <sub>base</sub>	Ligula W <sub>tip</sub>	Paraligula L					
<b>Tanypodinae</b>																
<i>Procladius (Holotanypus)</i> sp.	44.4	4.8	5.1	—	32.9	1.4	136.1	57.4	76.7	50.6	—	—	—	—	—	—
<i>Conchapelopia</i> sp. A	60.6	4.4	9.8	5.3	17.3	5.2	118.6	38.4	61.4	50.8	—	—	—	—	—	—
<i>Thienemanniella</i> sp.	50.6	12.8	4.4	—	12.8	5.3	102.5	42.7	55.4	43.8	—	—	—	—	—	—

YI, younger instar; A, measurements of larva, head and antenna; B, measurements of head and abdominal parts; C, measurements of Tanypodinae species maxillary palp parts.



Table 3. Report on new larval forms that may represent new genus or species and the new geographic distributional records.

	Recorded 1 <sup>st</sup> time in Labrador	Recorded 1 <sup>st</sup> time in Nunavut
Orthocladinae genus "Bily?"	<i>Parochlus kiefferi</i> (Garrett)	<i>Diamesa amplexivirilia</i> Hansen
May represent a new genus (larva)	<i>Corynoneura lobata</i> Edwards	<i>Diamesa spinacies</i> Sæther
	<i>Euryhopsis cilium</i> Oliver	<i>Pagastia orthogonia</i> Oliver
<i>Conchapelopia</i> sp. A,	<i>Heterotanytarsus perennis</i> Sæther	<i>Pseudodiamesa (Pseudodiamesa) branickii</i> (Nowicki)
<i>Corynoneura</i> sp. 1	<i>Oliveridia tricomis</i> (Oliver)	<i>Chaetocladius (Chaetocladius) piger</i> (Goetghebuer)
<i>Corynoneura</i> sp. 2	<i>Orthocladus (Orthocladus) obumbratus</i> Johannsen	<i>Cricotopus (Cricotopus) triamulatus</i> (Macquart)
<i>Hydrosmittia</i> sp. 1	<i>Rheocricotopus (Rheocricotopus) eminellus</i> Sæther	<i>Cricotopus (Isocladus) intersectus</i> (Staeger)
<i>Hydrosmittia</i> sp. 2	<i>Rheocricotopus (Rheocricotopus) pauciseta</i> Sæther	<i>Euryhopsis cilium</i> Oliver
<i>Hydrosmittia</i> sp. 4	<i>Synorthocladus semivirens</i> (Kieffer)	<i>Metricnemus (Metricnemus) eurynotus</i> (Holmgren)
<i>Metricnemus</i> sp. 1	<i>Saetheria tytus</i> (Townes)	<i>Micropectra polita</i> (Malloch)
<i>Rheosmittia</i> sp. A		<i>Orthocladus (Euorthocladus) thienemanni</i> Kieffer
<i>Thienemanniella</i> sp. A		<i>Orthocladus (Symptocladus) holsatus</i> Goetghebuer
Recorded 1 <sup>st</sup> time in the Nearctic	Likely to represent new record for Labrador	<i>Psectrocladius (Allopectrocladius) obivius</i> (Walker)
<i>Parametricnemus borealpinus</i> Gowin et Thienemann	<i>Metricnemus (Metricnemus) fuscipes</i> (Meigen)	<i>Synorthocladus semivirens</i> (Kieffer)
Recorded 1 <sup>st</sup> time in Canada	Likely to represent new record for Nunavut	<i>Thienemanniella boltoni</i> Hestenes et Sæther
<i>Diamesa bertrami</i> Edwards	<i>Doncricotopus bicaudatus</i> Sæther	<i>Thienemanniella taurocapita</i> Sæther
<i>Pseudokiefferiella</i> sp. 1 Doughman	<i>Orthocladus (Orthocladus) clarkei</i> Sponis	
<i>Orthocladus (Euorthocladus) luteipes</i> Goetghebuer	<i>Parakiefferiella bathophila</i> (Kieffer)	
<i>Orthocladus (Mesorthocladus) frigidus</i> Kieffer	<i>Parakiefferiella gracillima</i> (Kieffer)	
<i>Thienemanniella caspersi</i> Sæther	<i>Polypeditum (Uresipeditum) flavum</i> (Johannsen)	
<i>Tvetenia bavarica</i> (Goetghebuer)		