

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name DUNCAN CREEK	Waterbody ID Code 2150600	Sample ID (YYYYMMDD-CY-FD) 20191030-09-04
Sampling Location US bridge ~100m		Database Key 211591040

SWIMS Station ID 093169	SWIMS Station Name DUNCAN CREEK - IRVING PARK
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Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) LOWER CHIPPEWA	Watershed Name DUNCAN CREEK	County CHIPPEWA
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Sample and Site Descriptors

Sample Collector (Last Name, First) MYCAL RALEIGH Alex Sella	Project Name WEST DISTRICT NC STREAM STRATIFIED SITES 2019
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Sampling Device

D-Frame Kick Net
 Surber Sampler
 Eckman
 Ponar
 Artificial Substrate
 Hess Sampler
 Other: _____

Habitat Sampled

Riffle
 Run
 Pool
 Other
 Shoreline Composite
 Proportionally-Sampled Habitat
 Littoral Zone
 Profundal Zone
 Wetland

Total Sampling Time (min) 2	Estimated Area Sampled (m²) 3	Number of Samples in Composite 1	Replicate No. 1 of 1
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Reason For Sampling

Least Impacted Reference
 Baseline
 Impact / Treatment Site
 Control Site
 Trend
 Other: NCSR

Water Temp. (C) 5.6	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 10m
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 40 Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 10
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____
 Embeddedness of Substrate at Sample Site (%): 5 Canopy Cover at Sample Site (%): 40

Stream and Watershed Descriptors

N = Not a problem
 U = Uncertain
 PL = Present, Low Impact
 PH = Present, High Impact

Factors that may be influencing Water Resource Integrity	Local	Water-shed	Factors that may be influencing Water Resource Integrity	Local	Water-shed
Biological			Chemical		
Algae: - Diatoms / Periphyton	N	U	Chlorine	U	U
- Filamentous Algae	N	U	Dissolved Oxygen	U	U
- Planktonic Algae	N	U	Nutrients (P, N...)	U	U
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	U	U
Macrophytes	N	U	- Organic (PCBs, pesticides...)	U	U
Slimes	N	U	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	PL	U
Physical			Point Source - Specify:		
Bank Erosion	PL	U	Pasturing of Livestock	N	U
Channelization: - Upstream	N	U	Runoff: - Barnyard	N	U
- Downstream	N	U	- Construction	N	U
Hydraulic Scour / Channel Incision			- Cropland	N	U
Impoundment: - Upstream	N	PH	- Urban	PH	U
- Downstream	N	PH	Septic Systems	U	U
Low Flow	N	U	Tile Drainage - Organic Soils	U	U
Sedimentation	N	U	- Mineral Soils	U	U
Sludge	N	U	Springs	U	U
Thermal	N	U	Tributary(s)	U	U
Turbidity	N	U	Wetland	U	U
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Logan Cutler	Taxonomist Dimitri Jeffrey	Estimated Percent of Sample Sorted 12
Date Processed 9/25/20	Specimens Saved 126 subsample archived in ABL until Nov 2023	

54 72
 B3 A1 Q1, 2, 4

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Heptageniidae	L	I	1	Merrittum B 2019	imm	N
Levinseniidae	L	II	2	"		
Maccaffertium	L	III	4	Kuhn 2016	imm	Y
M. mediopunctatum	L	X	10	"		
M. vicarium	L	I	1	"		
Rhyacoptera	L	I	1	Merrittum B 2019	imm	
Isonychia	L	II	2	"	imm	
Allocapnia	L	II	2	"		
Paracapnia angulata	L	II	2	Hatch 1974		
Haploperla	L	I	1	Merrittum B 2019	imm	
Isonychia	L	I	1	"	imm	
Taeniopteryx	L	III	3	"		
Ceratopsyche	L	I	1	Hils 1995		
C. alhedra	L	III	9	Schm Hils 1986		
Cheumatopsyche	L	II	2	Merrittum B 2019		
Hydropsyche batteni	L	I		Schm Hils 1986	AD	
Chimarra	L	II	2	Merrittum B 2019	imm	Y
C. obscura	L	I	1	Hils 1982		
Paragnetina media	L	II	2	Hils 1985		
Oligoneurus	L	II	3	Merrittum B 2019	imm	N
O. fastidius	L	II	3	Hils, Schm 1992		
O. trivittatus	L/A	III	4	"		
Stenelmis	L	III	3	Merrittum B 2019		
Atherix variegata	L	II	2	Hils 1995		
Nemoura	L	II	2	Merrittum B 2019		
Simulium tuberosum species complex	L	I	1	Adler et al 2004		
Dicranota	L	III	4	Merrittum B 2019		
Gammarus pseudoclimacis	A	I	1	Hils 1972		
Caecidotea racovitzai racovitzai	A	I	1	Will 1972		
Mermithidae	A	I	1	Thorp Zag 2016		
Ferrissia	A	I	1	"	dam	
Nais	A	II	7	Kath Bam 1998		
Split A2 Chironomidae	L	III				
Paramefronemus	L	III	29	And et al 2013		
Tvetenia bavaria group	L	II	2	Bode 1983		
Rhyotanytarsus	L	II	2	And et al 2013		
Thienemanniella	L	I	1	"	dam	

