

Instructions: **Bold** fields must be completed.

Station Summary

Waterbody Name Loon Creek		Waterbody ID Code 2670400	Sample ID (YYYYMMDD-CY-FD) 20190904-07-03
Sampling Location US of Eagle Rd			Database Key 204308381
SWIMS Station ID 10052642	SWIMS Station Name LOON CREEK 330M DOWNSTREAM OF EAGLE LAKE RD		
Latitude 45.99105	Longitude -92.23737	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) ST. CROIX	Watershed Name LOWER YELLOW (BURNETT CO.) RIVER	County BURNETT	

Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG P ROESLER, CHANG VANG	Project Name NORTH 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) 2	Number of Samples in Composite 3	Replicate No. 1 of 1
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Reason For Sampling

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

Water Temp. (C) 19.9	D.O. (mg/l) 8.1	D.O. (% sat.) 91.3	pH (su) 7.6	Conductivity (umhos/cm) 121	Transparency (cm) >120
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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 0.6	circle units m/s or f/s	Average Stream Depth of reach (m) 0.6	Average Stream Width of reach (m) 8
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 90 Rubble (tennisball to basketball): 10 Gravel (ladybug to tennisball): _____
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____
 Embeddedness of Substrate at Sample Site (%) 0 Canopy Cover at Sample Site (%) 10

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Eric Naas</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>7%</i>
Date Processed <i>8/3/2020</i>	Specimens Saved <i>subsample archived in ABL unit Oct 2023</i>	

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetidae	L	I	1	Merrillum B 2019	dam	N
Acerpenna	L	x-III	18	"	dam	N
A. pygmaea	L	x-III	18	Klob 2016		
Baetis	L	"	2	Merrillum B 2019	dam	N
B. intercalaris	L	0	20	Klob 2016		
B. flavistriga species complex	L	"	2	"		
Heptageniidae	L	III	5	Merrillum B 2019	imm	N
Maccaffertium	L	-	5	Klob 2016	imm	Y
M. mediopunctatum	L	0I	21	"		
M. vicarium	L	I	1	"		
Stenacron	L	III	3	Merrillum B 2019	imm	
Leptophlebiidae	L	I	1	"	imm	
Hydropsychidae	L	I	1	"	imm	N
Chematosyche	L	0III	23	"		
Hydropsyche	L	8-III	38	Hils 1995	imm	N
H. simulans	L	0III	24			
Hydroptilidae	L	I	1	Merrillum B 2019	imm	
Philopotamidae	L	I	1	"	imm	N
Chimarra obscura	L	-II	7	Hils 1992		
Neureclipsis	L	I	1	Merrillum B 2019		
Stenelmis	L	x-I	16	"		
Nemoura	L	I	1	"		
Simulium vittatum species complex 08110217	L	I	1	Adl et al 2004		
Dugesiiidae	A	III	3	Thorp & Rogers 2016		
Hydrobiidae	A	II	2	Thorp & Rogers 1991		
Bellamyia chinensis	A	I	1	Thorp & Rogers 2016		
Sphaerium	A	I	1	"		
Spittleria Chironomidae	L	8-III-200				
Cardiocladius obscurus	L	I	1	Epler 2001		
Orthocladiinae 08300000	L	III	3	Adl et al 2013	imm	N
Eukretella brehmi group	L	I	1	"		
Orthocladius	L	0r	25	"		
Chironominae 08330000	L	I	1	"	imm	N
Polypedium (Uresipedium) aviceps	L	"	2	Bolton 2012		
P. (U.) flavum	L	I	1	"		

< 3 taxa, TVAL < 2.0