

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name NORTH FORK CLAM RIVER		Waterbody ID Code 2656600	Sample ID (YYYYMMDD-CY-FD) 20211006-07-01
Sampling Location @ Sand Road upper crossing - US		Database Key 293646508	
SWIMS Station ID 10031948		SWIMS Station Name NORTH FORK CLAM RIVER AT UPPER SAND RD CROSSING	
Latitude 45.73954	Longitude -92.12563	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 NORTH FORK CLAM RIVER	County BURNETT

Sample and Site Descriptors	
Sample Collector (Last Name, First) JOSEPH CUNNINGHAM	Project Name NOR LONG-TERM TREND WADEABLE REFERENCE STREAM

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) 1 min	Estimated Area Sampled (m²) 1 m ²	Number of Samples in Composite 3-20 second kicks	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) 13.2	D.O. (mg/l) 10.5	D.O. (% sat.) 103.5	pH (su)	Conductivity (umhos/cm) 268	Transparency (cm) 2120
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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 checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input 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) 0.3	Average Stream Width of reach (m) 7 m
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Composition of Substrate Sampled (Percent):

Bedrock: _____
 Boulders (basketball or larger): 10
 Rubble (tennisball to basketball): 40
 Gravel (ladybug to tennisball): 30
 Sand: 20
 Clay: _____
 Silt/Muck: _____
 Overhanging Vegetation: _____
 Aquatic Macrophytes: _____
 Leaf Snags: _____
 Coarse Woody Debris: _____
 Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 10
Canopy Cover at Sample Site (%) 70

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	Watershed	Factors that may be influencing Water Resource Integrity		Local	Watershed
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		PL	PL
				Point Source - Specify:			
				Pasturing of Livestock			PL
Bank Erosion				Runoff: - Barnyard			PL
Channelization: - Upstream		PL	PL	- Construction			
- Downstream				- Cropland			PL
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 Walters, Selina	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted R1: 9.3% / R2: 6.25%
Date Processed R1: 9/15/22 / R2: 9/19/22	Specimens Saved R1: 127	R2: 130 subsamples archived in ABL until Jan 2026
D3: Q4: 112 Q3 Q2 Q1	D1: Q2: Q1: Q4: Q3: D1 Q2: Q3: 5 Q4: 10 Q2:	D4: Q1: 21 Q4: 39 Q2: Q3: C1: Q3: 31 Q2: 39 Q4: Q1: QAQC PE1 0 QAQC PE2 1 caddis

Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
<i>Baetis flavistriga</i> species complex	L	0	1		Klch 2016		
Ephemeroellidae	L	0	1		MCB 2019	imm	N
Ephemera	L	2	1		"	imm	
Leocrocota	L	4	2		"		
<i>Maccaffertium vicarium</i>	L	4	1		Klch 2016		
<i>Neoleptophlebia</i>	L	4	0		MCB 2019	imm	
<i>Cordulegaster</i>	L	0	1		"	dam	
<i>Paracaphnia angulata</i>	L	3	4		Hitch 1974		
<i>Acroneuria</i>	L	1	0		MCB 2019	imm	N
<i>A. lycorias</i>	L	1	0		Hitch 1974		
Perlodidae	L	0	1		MCB 2019	dam	N
<i>Isoperla signata</i>	L	1	3		Hils 1982		
<i>Taeniopteryx</i>	L	3	4		MCB 2019	imm	
<i>Micrasema rusticum</i>	L	0	3		Hils 1985		
<i>Glossosoma</i>	L	1	1		MCB 2019	imm	N
<i>G. intermedium</i>	L	7	1		Wym Mar 2000		
<i>Protophila</i>	L	4	4		MCB 2019		
<i>Ceratopsyche glossosoma</i>	L	1	4		Schm Hils 1986		
<i>C. sparna</i>	L	4	7		"		
<i>Hydropsyche betteni</i>	L	1	0		"		
<i>Leocotrichia pictipes</i>	L	3	6		Hils 1985		
<i>Lepidostoma</i>	L	37	52		MCB 2019		
<i>Neophylex</i>	L	3	2		"	imm	
<i>Nigronia serricornis</i>	L	1	0		Neunzig 1966		
<i>Optiosecurus</i>	L	3	6		MCB 2019	imm	N
<i>O. fastidiosus</i>	L	1	0		Hils Schm 1992		
<i>O. frivillatus</i> R1 L,3 R2 L,4 A,1	L,A	3	5		"		
<i>Atherix variegata</i>	L	5	2		Hils 1985		
<i>Probezzia</i>	L	1	0		"		
<i>Diamesa</i>	A	1	0		MCB 2019		
<i>Nemerochromia</i>	L	1	1		"		
<i>Antocha</i>	L	5	0		"		
<i>Hexatoma</i>	L	2	0		"		
<i>Tipula</i>	L	0	1		"		
<i>Ferissia rivularis</i>	A	3	2		ThompBog 2016		
<i>Physa</i>	A	1	0		"		
<i>Pisidium</i>	A	5	6		"		
<i>Naidinae</i>	A	0	1		KathBrin 1998		
<i>Hydrobates</i>	A	0	1		Peck et al 1980		

