

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

Station Summary			
<b>Waterbody Name</b> SANDY CREEK		<b>Waterbody ID Code</b> 966100	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20191008-22-01
<b>Sampling Location</b> ✓ 10m upstream of confluence with unnamed trib			<b>Database Key</b> 212561267
<b>SWIMS Station ID</b> 10052743		<b>SWIMS Station Name</b> SANDY CREEK UPSTREAM OF UNNAMED TRIB (WBIC: 5037082)	
<b>Latitude</b> 42.91546	<b>Longitude</b> -91.03680	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
<b>Basin (WMU)</b> GRANT - PLATTE		<b>Watershed Name</b> MISSISSIPPI RIVER	<b>County</b> GRANT

Sample and Site Descriptors	
<b>Sample Collector (Last Name, First)</b> CAMILLE BRUHN	<b>Project Name</b> SOUTH DISTRICT NC STREAM STRATIFIED SITES 2019

**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

<b>Total Sampling Time (min)</b> 1	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1	<b>Number of Samples in Composite</b> 1	<b>Replicate No. _____ of _____</b>
---------------------------------------	--	--	-------------------------------------

**Reason For Sampling**

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

<b>Water Temp. (C)</b> 14.5	<b>D.O. (mg/l)</b> 9.47	<b>D.O. (% sat.)</b> 93.0	<b>pH (su)</b> 8.17	<b>Conductivity (umhos/cm)</b> 646	<b>Transparency (cm)</b>
--------------------------------	----------------------------	------------------------------	------------------------	---------------------------------------	--------------------------

**Water Color**

Clear     
  Turbid     
  Stained

**Estimated Stream Velocity (m/s)**

Slow (< 0.15 m/s)     
  Moderate (0.15 m/s - 0.5 m/s)     
  Fast (> 0.5 m/s)

<b>Measured Velocity</b> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b>	<b>Average Stream Width of reach (m)</b>
--	--	--

**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_     
 Boulders (basketball or larger): \_\_\_\_\_     
 Rubble (tennisball to basketball): 20     
 Gravel (ladybug to tennisball): 70  
 Sand: 10     
 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 (%) 0

**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
<b>Biological</b>				<b>Chemical</b>			
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:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
<b>Physical</b>				Runoff: - Barnyard			
Bank Erosion				- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream				Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow				Springs			
Sedimentation				Tributary(s)			
Sludge				Wetland			
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments *NC: 290*

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Logan Cutler</i>	Taxonomist <i>Dimock, Jeffrey</i>	Estimated Percent of Sample Sorted <i>27</i>
Date Processed <i>10/6/2020</i>	Specimens Saved <i>125 subsample archived in ABC until Nov 2023</i>	

*13 18 22 20 5 8 12 14 13*  
*D1Q1 D3Q1,4 D1Q24 D3Q2,3 D1Q3 A3Q24E A3Q1,3 E2Q34 E2Q1,2*  
 2.2 hrs

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis	L	II	2	Merrillum B 2019	dam	N
B. brunneicolar	L	-	5	Klob 2016		
B. tricardatus	L	XIII	19	"		
B. flavistriga species complex	L	-I	6	"		
Stenonema	L	I	1	Merrillum B 2019	dam	
Ceratopsyche	L	I	1	Hils 1995	dam	
C. alhedra	L	III	8	Schmidt Hils 1986		
C. boaria	L	I	1	"		
C. glossopoe	L	XII	12	"		
C. spuma	L	I	1	"		
Chironomus	L	II-III	27	Merrillum B 2019		
Hydropsyche bettereri	L	-	5	Schmidt Hils 1986		
Hydroptila	L	I	1	Merrillum B 2019		
Helochus stansatus	A	II	2	Hils Schim 1992		
Optoserius fastidiorius	L	II	2	"		
Stenelmis	L	II	2	Merrillum B 2019		N
S. crenata	A	-	5	Hils Schim 1992		
Tvetenia	P	I	1	Merrillum B 2019		
Simulium tuberosum species complex	L	I	1	Adl et al 2004		
Gammarus pseudolimnoides	A	I	1	Hils 1972		
Lebertia	A	I	1	Pack et al 1990		
Dugesiiidae	A	I	1	Thorp Bog 2016		
Tubificinae (without hairs)	A	-I	6	Kahn Brin 1998		
Epobdella punctata punctata	A	I	1	Klemm 1985		
Split A2 Chironomidae	L	XII-III				
Orthocladinae 0830001	P	I	1	Merrillum B 2019	dam	N
Acanesa	L	III	4	Adl et al 2013		
Tanyta	L	I	1	Merrillum B 2019		
Megadrili = Metasynthera	A	I	1	Thorp Bog 2016		
Cercotopus (Cercotopus) tremulus group	L	I	1	Adl et al 2013		
Orthocladus (Orthocladus)	L	III	9	"		
Micropsectra	L	I	1	"		
Polypedilum (Lysipredilum) ariceps	L	I	1	Bolton 2012		
P. (L.) flavum	L	I	1	"		