

Station Summary

Waterbody Name GRANT RIVER	WBIC 956000	Field Seq no. generated by SWIMS 258664718
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SWIMS Station ID 10033923	SWIMS Station Name GRANT RIVER DOWNSTREAM FROM BOICE CREEK CONFLUENCE
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Field Sample ID (retrieval date) 20200901-22-01	Basin (WMU) GRANT - PLATTE	Watershed Name LOWER GRANT RIVER	County GRANT
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Project Name Large River Macroinvertebrate Sampling
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Latitude 42.692936 42.68071	Longitude -90.76432 -90.75427	Determination Method Garmin GPS	Datum Used WGS 84
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Site Access Details: Put in at Potosi landing on Mississippi River
1000 m upstream of STH 133

Sample and Site Descriptors

Sampling Device	Hester Dendy Area Calculation = Plate Size (cm) _____
☒ Standard Non-wadeable Hester Dendy	Number of Plates _____
☐ Other Device: _____	Device Area Calculation = Plate Size (cm) _____

Habitat Sampled	☒ Suspended ☐ River Bed
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Snags (no./100m) <u>1</u>	Avg. size (dbh) <u>12"</u>	Coniferous and/or Deciduous (circle)
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Riparian Land Use, Vegetation, and Condition: Floodplain meadow & forest
Natural Corridor

Substrate Composition				
Bedrock _____ %	Boulder _____ %	Cobble _____ %	Gravel _____ %	
Sand _____ %	Silt _____ %	Clay _____ %	Muck _____ %	
Aquatic Macrophytes _____ %	CWD _____ %	Other (_____) _____ %		

Field Measurements

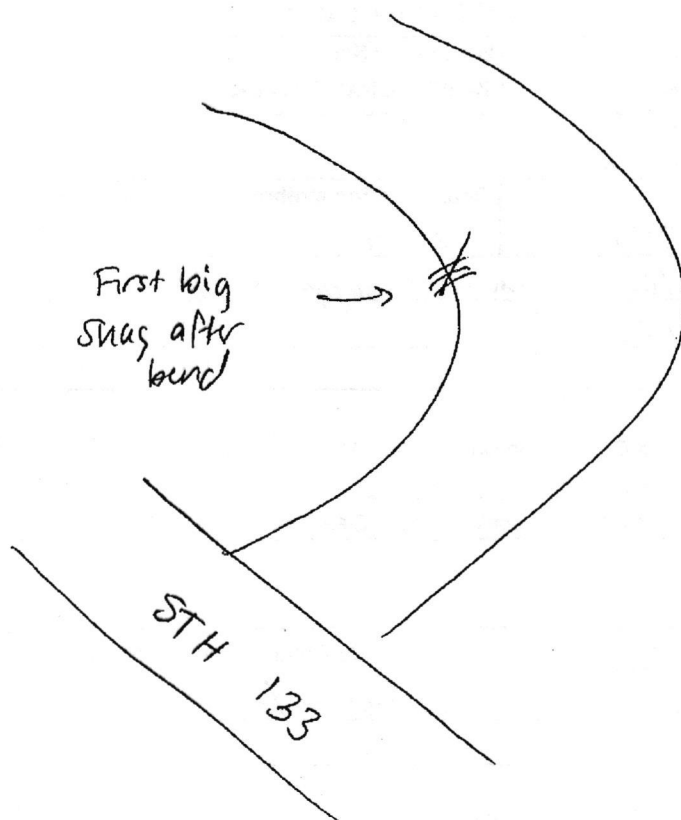
	Deployment	Retrieval	Total Colonization Time (Days)
Date:	07/21/2020	9/11/2020	42
Time:	10:46	10:51	
Personnel:	Kuber / Amrhein	Bruhn / Amrhein	
Water Depth at Location (m):	2+ m	2 m	
Sampler Height Above Substrate (m):	1+ m	1+ m	
Bank Placement: R (L)	Left	Left	
Distance From Bank:	2 m	2 m	
Water Temp (C):	20.7	18.0	
Water Color (clear, turbid, stained):	Turbid	Somewhat turbid	
D.O. (mg/L):	7.16/79.2	7.41/78.1	
pH:	8.18	8.26	
Conductivity:	698	683	
Transparency Tube (cm):	18	40	
Turbidity (NTUs):			
Water Velocity (m/s):	0.06	0.05	

Non-Wadeable Macroinvertebrate Field Data Report

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Draw Map:



Ethanol replaced the second day?

Yes

No

Label on inside of jar?

Yes

No

Label on outside of jar?

Yes

No

Additional Notes:

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Date Processed	Specimens Saved	

Station Summary

Waterbody Name <i>Grand River</i>	WBIC <i>956 000</i>	Field Seq no. generated by SWIMS
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SWIMS Station ID <i>10033923</i>	SWIMS Station Name <i>Upstream STH 133</i>
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Field Sample ID (retrieval date) <i>20200901-22-01</i>	Basin (WMU)	Watershed Name	County <i>Grant</i>
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Project Name <i>Large Rivers</i>

Latitude <i>42.68071</i>	Longitude <i>90.75427</i>	Determination Method <i>GPS</i>	Datum Used
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Site Access Details: <i>Put in a Potosi landing on Mississippi River 600 m upstream of STH 133</i>

Sample and Site Descriptors

Sampling Device

☒ Standard Non-Wadeable Hester Dendy	Hester Dendy Area Calculation = Plate Size (cm) _____
☐ Other Device: _____	Number of Plates _____
	Device Area Calculation = Plate Size (cm) _____

Habitat Sampled

☒ Suspended	☐ River Bed
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Snags (no./100m) <i>1</i>	Avg. size (dbh) <i>12"</i>	Coniferous and/or Deciduous (circle)
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Riparian Land Use, Vegetation, and Condition: <i>Floodplain meadow & forest natural condition</i>
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Substrate Composition

Bedrock _____ %	Boulder _____ %	Cobble _____ %	Gravel _____ %
Sand _____ %	Silt _____ %	Clay _____ %	Muck _____ %
Aquatic Macrophytes _____ %	CWD _____ %	Other (_____): _____ %	

Field Measurements

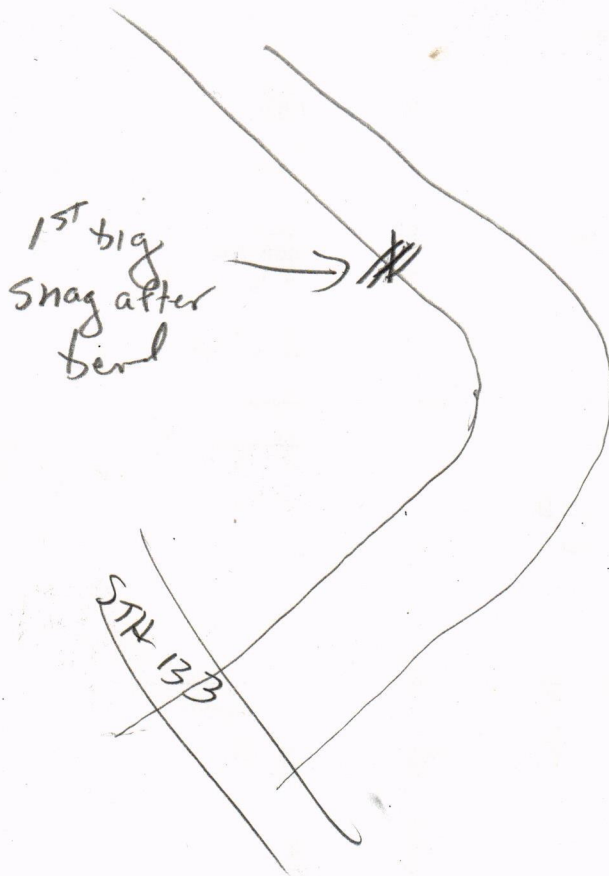
	Deployment	Retrieval	Total Colonization Time (Days)
Date:	<i>07/21/2020</i>	<i>7/1/2020</i>	<i>42</i>
Time:	<i>10:46</i>	<i>10:51</i>	
Personnel:	<i>Kuber / Amrhein</i>	<i>Bruhn / Amrhein</i>	
Water Depth at Location (m):	<i>2+ m</i>	<i>2+ m</i>	
Sampler Height Above Substrate (m):	<i>1+ m</i>	<i>1+ m</i>	
Bank Placement: R <i>(L)</i>	<i>Left</i>	<i>"</i>	
Distance From Bank:	<i>2 m</i>	<i>"</i>	
Water Temp (C):	<i>20.7</i>	<i>18.0</i>	
Water Color (clear, turbid, stained):	<i>Turbid</i>	<i>Somewhat turbid</i>	
D.O. (mg/L):	<i>7.16 / 79.2</i>	<i>7.41 / 78.1</i>	
pH:	<i>8.18</i>	<i>8.26</i>	
Conductivity:	<i>698</i>	<i>683</i>	
Transparency Tube (cm):	<i>18</i>	<i>40</i>	
Turbidity (NTUs):			
Water Velocity (m/s):	<i>0.06</i>	<i>0.05</i>	

Non-Wadeable Macroinvertebrate Field Data Report

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Draw Map:



Ethanol replaced the second day?

Yes

No

Label on inside of jar?

Yes

No

Label on outside of jar?

Yes

No

Additional Notes:

For Lab Use Only

Sample Sorter Raehael Valeria	Taxonomist Dimick, J. Grey	Estimated Percent of Sample Sorted 54.7%
Date Processed 10/28/2021	Specimens Saved Subsample archived in ABC until Dec 2021	

~~C6 E2 C3 F7 A2 A3 D3 H3 A1 G3~~ Grid 1 Grid 2 ~~C7 D7 A5~~
~~25 27 31 30 24 B 23 32 11 8~~ 229 + 216 + 29 + 26 + 34 = 534

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon	L/R Y/N
Heptageniidae	L	u	2	MCB 2019	dam/imm	N	N
Maccaffertium	L	x-III	20	Klob 2016	imm	N	
M. exiguum	L	i	6	"			
M. medipunctatum	L	i	1	"			
Stenonema Stenonema	L	x-III	14	MCB 2019	imm		
Tricorythodes	L	i	5	"			
Argia	L	u	2	"	imm		
Baetiscus numerosus	L	i	5	Hils 1985			
Hydropsychidae	P	i	1	MCB 2019	dam	Y	
Chamaepsyche	L	u	2	"			
Nectopsyche	L	x-III	14	"	imm	N	
N. candida	L	III	4	Gov Floyd 2004			
Macronychus glabratus	A	i	1	Hils Schan 1992			
Stenelmis	L	i	1	MCB 2019			
Neureclipsis	L	i	5	"			
Psephenus	L	i	1	Hils 1985			
Bezzia/ Palpomyia	L	u	3	"			
Cricotopus intermedia	A	-yII	9	Will 1972			
Hydridae	A	u	2	Thorp Reg 2016			
Augesidae	A	u	2	"			
Glossophoridae	A	i	1	"	dam		
Ceratopogonidae	L	i	1	MCB 2019	dam	N	
Polycentropodidae	L	i	1	"	imm	N	
Prostoma	A	x-III	6	Thorp Reg 2016			
Acanthacephala	A	i	1	"			
Ephemeroptera	L	i	1	MCB 2019	imm	Y	
Nemata	A	i	1	Thorp Reg 2016			
Colicoides	L	i	1	Hils 1985			
Cryptochironomus	P	i	1	MCB 2019			Y
Split A2 Chironomidae	L	x-III					
Split A3a worm	A	8x-III					
Split A3b worm	A	8x-III					
Split A3c worm	A	8x-III					
Split A3d worm	A	8x-III					
Split A3e worm	A	8x-III					
Split A3f worm	A	8x-III					
Split A3g worm	A	8x-III					
Split A3h worm	A	8x-III					

Taxonomist: Dimick, Jeffrey

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[illegible]