Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 26 July 2016

Time: Arrived: 7pm Departed: 9:00 Collectors: DF, SH, LZ

Stream: Upper Paintbrush Rock Glacier **Location Description:** Paintbrush Canyon

UTMs: N 0516559 W - 4848030 **Datum:** ____ on Deb's GPS

Elevation: 2695 m ??? Site name on GPS: PBRG01

Water quality (Recorded with a YSI Pro Plus Mulitprobe) Deb's Proplus

Parameter	Value 7:30	Value 1:30pm	Units
Water temperature	6.5	5.6	°C
Barometric pressure	547.6		mmHg
DO			% saturation
DO			mg/L
Specific conductivity (SPC)	34.6	37.7	µS/cm
Conductivity	22.3	23.7	µS/cm
pH			
ORP			mV
~~Air temp~~ NO_3-N	0.08	0.09	mg/L

Last calibrated: 7/25 DO: —

Photos taken: Site ✓ Temp Probe ✓

Weather: Sunny, warm

Substrate type: Boulder, cobble, gravel

Number of Surbers collected: 6

Aspect: —

Slope: —

Biofilm rank: Little (Medium) Green slipping rate

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	1
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	1
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	12
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	2
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (3)	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	1

Temp logger number: 10972587 Placed at head on right Coordinates: UTMs: N ____ W - ____

Stream width (m): on back Depth (cm): ____

Suspended Solids:

Filter number	1	2	3
Volume filtered (mL)	200	200	200

Notes (continue on back):
Filling out datasheet from memory on some points
Lednia here!

stream profile

left

Distance cm	0	30	60	90	120	150	180	210	240	270	300	330	360
Depth cm	2	5	0	3	4	3	5	0	1	7	4	1	0

Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 27 July 2016

Time: Arrived: 3:20 Departed: _____ Collectors: SH, DF, LZ

Stream: Upper Mica Lake **Location Description:** Below Petersen

UTMs: N 43.78182 W - 110.84663 **Datum:** NAD83

Elevation: 9562 ft Site name on GPS: _____

Water quality (Recorded with a YSI Pro Plus Mulitprobe)

Parameter	Value	Units
Water temperature	2.1	°C
Barometric pressure		mmHg
DO		% saturation
DO		mg/L
Specific conductivity (SPC)	2.2	µS/cm
Conductivity	1.2	µS/cm
pH		
ORP		mV
~~Air temp~~ NO_3- N	0.04	°C mg/L

Last calibrated: 7/25 DO: —

Photos taken: Site ✓ Temp Probe —

Weather: Sunny + hot, light breeze

Substrate type: Gravel + Cobble

Number of Surbers collected: 6

Aspect: —

Slope: —

Biofilm rank: (Little) Medium Green

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	2
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	4
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	24
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	6
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (3)	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	4

Depends on channel

Temp logger number: Removed logger but did not redeploy Coordinates: UTMs: N _____ W - _____

Stream width (m): on back Depth (cm): _____

Suspended Solids:

Filter number	4	5	6
Volume filtered (mL)	100	150	200

Notes (continue on back):
Measured variables on western stream, but probably eastern last year. Hobo buried under straw. Hobos down river where 2 streams meet. Eastern stream had smaller substrate than western.

left

Distance cm	0	30	60	90	120	150
Depth cm	6	5	3	7	4	5

Lower Mica site (from 2015)

Temp 12.2°C
SPC 12.3 µS/cm
Cond 9.3
NO_3^-N 0.08 mg/L

Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 29 July 2016

Time: Arrived: 1:15 Departed: 3:15 Collectors: SH, DF, LZ

Stream: Upper Middle Teton **Location Description:** Below middle Teton Glacier

UTMs: N 43.72767 W - 110.79539 **Datum:**

Elevation: 9503 ft Site name on GPS:

Water quality (Recorded with a YSI Pro Plus Mulitprobe)

Parameter	Value	Units
Water temperature	2.4	°C
Barometric pressure		mmHg
DO		% saturation
DO		mg/L
Specific conductivity (SPC)	2.4	µS/cm
Conductivity	1.4	µS/cm
pH		
ORP		mV
~~Air temp~~ NO_3 N	0.05	~~°C~~ mg/L

Last calibrated: 7/25 DO: —

Photos taken: Site ✓ Temp Probe ✓

Weather: Sunny, hot, calm

Substrate type: Cobble + boulder

Number of Surbers collected: 5

Aspect: —

Slope: —

Biofilm rank: (Little) Medium Green

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	2
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	4
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	15
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	8
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (2)	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	1.5

different kind of scour, lot of loose material, stream flowing over glass

mosses + plants in riffles but not abundant

Temp logger number: Retrieved logger, broke cable w/ rock! Coordinates: UTMs: N W -

Stream width (m): on back Depth (cm):

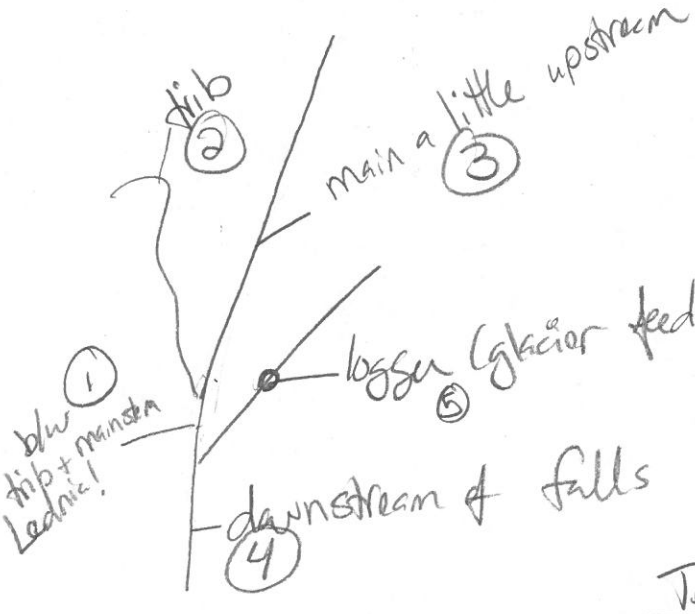
Suspended Solids:

Filter number	7	8	9
Volume filtered (mL)	150	100	100

Notes (continue on back):
Really smoky
Ledria in lower stream. Retrieved HOBO at lower site
3 tribs

	left
Distance cm	0
Depth cm	

did not measure w/ small ruler we had



stream #	1	2	3	4	5
Temp °C	3.3	3.2	3.4	4.6	7.2
SPC	8.1	8.0	8.0	6.4	2.9
Cond	4.7	4.7	4.7	3.9	2.0
NO_3	.07	.11	.07	0.08	0.02

Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 1 Aug 2016

Time: Arrived: 5:00pm Departed: 6:00pm Collectors: AT, SH, DF

Stream: Death Rock Glacier 4 **Location Description:** Cobble stream, steady

UTMs: N 509086 W - 4832250 **Datum:** NAD83

Elevation: 9687 ft Site name on GPS: Death Rock-Glacier 4

Water quality (Recorded with a YSI Pro Plus Mulitprobe)

Parameter	Value	Units
Water temperature	1.4	°C
Barometric pressure	—	mmHg
DO	—	% saturation
DO	—	mg/L
Specific conductivity (SPC)	204.2	µS/cm
Conductivity	111.8	µS/cm
pH	8.06	
ORP	92.4	mV
Air temp		°C

Last calibrated: 7/30 DO: — forgot sensor!

Photos taken: Site ✓ Temp Probe ✓

Weather: Sunny, light breeze

Substrate type: Stable, cobbles

Number of Surbers collected: 6

Aspect: 274°

Slope: 7°

Biofilm rank: Little (Medium) Green

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	2
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	3 → Δs from v. dull right at source to brighter d/s
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	6
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	4
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (3)	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	2 → Similar story as Lots moss u/s, decreases d/s

Temp logger number: 10972590 Coordinates: UTMs: N 12T0509088 W - 4832242

Stream width (m): ~1m back ~ Depth (cm): 9 cm

Suspended Solids:

Filter number	10	11	12
Volume filtered (mL)	9×60mL = 540mL	9×60mL = 540mL	600 mL

Notes (continue on back):
Logger: Placed logger at head of stream, where water bubbles out of rocks

stream

		left					Right
Distance	cm	0	30	60	90	120	160
Depth	cm	0	7	7	8	11	3

Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 2 Aug 2016

Time: Arrived: 1:00 Departed: 2:30pm Collectors: dH, SH, DF

Stream: Alaska Basin Saith Rock Glacier **Location Description:** Near Sheep Steps, S. Alaska Basin

UTMs: N 43.69276 W - 110.85847 **Datum:** NAD83

Elevation: 9464 ft Site name on GPS: Alaska Basin S Rock Glacier

Water quality (Recorded with a YSI Pro Plus Mulitprobe)

Parameter	Value	Units
Water temperature	2.2	°C
Barometric pressure		mmHg
DO		% saturation
DO		mg/L
Specific conductivity (SPC)	198.1	µS/cm
Conductivity	111.9	µS/cm
pH	7.86	
ORP	103.0	mV
Air temp	hot!	°C

Last calibrated: 7/30 DO: —

Photos taken: Site ✓ Temp Probe ✓

Weather: Sunny, breezy, hot!

Substrate type: Cobble + fine gravel

Number of Surbers collected: 6

Aspect: 342°

Slope: 40

Biofilm rank: Little (Medium) Green lots of slick algae moss near some

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	1
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	1
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	6
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	4
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (3)	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	1.5

Temp logger number: 10972585 Coordinates: UTMs: N 43.69276 W - 110.85853

Stream width (m): on back Depth (cm):

Suspended Solids:

Filter number	013	014	015
Volume filtered (mL)	400	400	500

Notes (continue on back):

left

Distance	cm	0	30	60	90	120	175
Depth	cm	2	6.5	7	6	9	2

Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 2 Aug 2016

Time: Arrived: 3:30pm Departed: 4:15 Collectors: KT, SH, DF

Stream: Upper South Fork Teton Ck **Location Description:** Alaska Basin (apart from last gear

UTMs: N 43.69078° W - 110.84.109° **Datum:** NAD83

Elevation: 9900 ft Site name on GPS: Upper SF Teton Ck

Water quality (Recorded with a YSI Pro Plus Mulitprobe)

Parameter	Value	Units
Water temperature	15.8	°C
Barometric pressure		mmHg
DO		% saturation
DO		mg/L
Specific conductivity (SPC)	61.5	µS/cm
Conductivity	50.7	µS/cm
pH	8.21	
ORP	170.0	mV
Air temp		°C

Last calibrated: 7/30 DO: —

Photos taken: Site ✓ Temp Probe NA

Weather: Sunny, breezy

Substrate type: Cobble, large gravel

Number of Surbers collected: 6

Aspect: 270°

Slope: 3°

Biofilm rank: Little Medium Green
Not very slippery in comparison to other sites

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	2
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	4
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	12
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	6
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (3)	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	3

Temp logger number: NA Coordinates: UTMs: N — W - —

Stream width (m): on back Depth (cm):

Suspended Solids:

Filter number	16	17	18
Volume filtered (mL)	600	600	600

Notes (continue on back):

We sampled above where we placed the logger last year, ~150m upstream. less steep here w/ nice riffles

	left				
Distance cm	0	30	60	90	135
Depth cm	0	11	9	8	3

Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 2 Aug 2016

Time: Arrived: 5:45 pm Departed: 6:45 Collectors: AJ, SH, DF

Stream: Alaska Basin Rock Glacier North **Location Description:** Alaska Basin

UTMs: N 0512833 W - 4838617 **Datum:** NAD83

Elevation: 10,139 ft Site name on GPS: Alaska Rock Glacier North

Water quality (Recorded with a YSI Pro Plus Mulitprobe)

Parameter	Value	Units
Water temperature	3.5	°C
Barometric pressure		mmHg
DO		% saturation
DO		mg/L
Specific conductivity (SPC)	94.3	µS/cm
Conductivity	55.6	µS/cm
pH	7.60	
ORP	106.4	mV
Air temp	hot	°C

Last calibrated: 7/30 – At trail head DO: —

Photos taken: Site ✓ Temp Probe ✓

Weather: Sunny, breezy

Substrate type: Cobble

Number of Surbers collected: Ce

Aspect: 201°

Slope: 3°

Biofilm rank: Little (Medium) Green

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	1
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	1
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	12
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	4
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (3)	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	2

lots of fine sediment

moss upstream + disappears 10 m downstream

Temp logger number: 10972586 Coordinates: UTMs: N 0512833 W - 4838624

Stream width (m): on back Depth (cm):

Suspended Solids:

Filter number	19	20	21
Volume filtered (mL)	500	400	600

Notes (continue on back): sporadic pulses of "stuff" in water

Hobo - hook for rusty rock at margin of stream (left side looking upstream) Logger is 1.5 m downstream.

left

Distance cm	0	30	60	90
Depth cm	2	3	4	3

Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 3 Aug 2016

Time: Arrived: 2:00 pm Departed: 3:30 Collectors: KT, DF, SH

Stream: Upper S Cascade **Location Description:** SE of Schoolroom Glacier

UTMs: N 0513060 W - 4840840 **Datum:** NAD83

Elevation: 10,389 ft Site name on GPS: S Cascade Rock Glacier #4

Water quality (Recorded with a YSI Pro Plus Mulitprobe)

Parameter	Value	Units
Water temperature	0.2	°C
Barometric pressure		mmHg
DO		% saturation
DO		mg/L
Specific conductivity (SPC)	151.5	µS/cm
Conductivity	79.6	µS/cm
pH	8.30	
ORP	111.3	mV
Air temp		°C

Last calibrated: 7/30 DO: —

Photos taken: Site ✓ Temp Probe ✓

Weather: Sunny, Windy

Substrate type: Cobble + gravel

Number of Surbers collected: 6

Aspect: 358°

Slope: 11°

Biofilm rank: Little (Medium) Green

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	2
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	1
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	12
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	3
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (3) 2	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	2

Temp logger number: 10972589 Coordinates: UTMs: N 0513059 W - 4840833

Stream width (m): on back Depth (cm):

Suspended Solids:

Filter number	22	23	24
Volume filtered (mL)	400	300	300

Notes (continue on back): Same stream as our site last year. Snow melted a lot and exposed areas this year that were under snow field last year. Took samples below outlet of rock glacier

2 channels

left 0	25 cm	50 cm	75 cm	100 cm (downstream)	– distance
1 cm	4 cm	6 cm	3 cm	1 cm	– depth

other channel

left			
0	40 cm	80 cm	– distance
2 cm	3 cm	1 cm	– depth

Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 3 Aug 2016

Time: Arrived: 4:45pm Departed: 5:40 Collectors: AT, SH, DF

Stream: Rock Glacier Trib Seep **Location Description:** Below Schoolroom Glacier

12T **UTMs:** N 0512566 W - 4841724 **Datum:** NAD83

Elevation: 9986 ft Site name on GPS: TR15 S Cascade Rock Glacier 6

Downstream 25 m of head

Water quality (Recorded with a YSI Pro Plus Mulitprobe)

Parameter	Value		Units
Water temperature	4.6	8.0	°C
Barometric pressure			mmHg
DO			% saturation
DO			mg/L
Specific conductivity (SPC)	130.2	128.3	µS/cm
Conductivity	79.4	86.0	µS/cm
pH	8.20	8.39	
ORP	199.0	132.1	mV
Air temp			°C

Last calibrated: 7/30 DO: —

Photos taken: Site ✓ Temp Probe ✓

Weather: Sunny, breezy

Substrate type: Cobble + gravel

Number of Surbers collected: 6

Aspect: 70

Slope: 20°

Biofilm rank: Little (Medium) Green

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	1
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	1
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	12
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	3
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (3)	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	2

Temp logger number: 10972588 Coordinates: UTMs: N 0512566 W - 4841723 At head of stream

Stream width (m): on back Depth (cm):

Suspended Solids:

Filter number	25	26	27	28
Volume filtered (mL)	600 ml	600	600	600

Notes (continue on back):

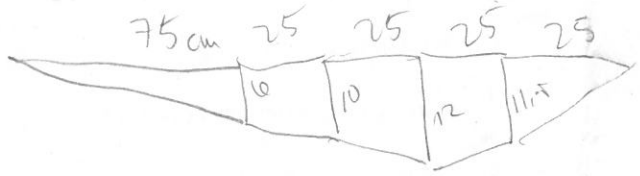
Saw moose bull yearling & doe deer. Lednia

below head

70 m downstream of head

stream profile (all cm)

	0 cm								
Distance	~~0~~	75 cm	100	125	150	175			
Depth cm	0 cm	6 cm	10	12	11.5	0			



Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 5 Aug 2016

Time: Arrived: 4:00pm Departed: 5:00pm Collectors: AT + SH

Stream: Upper North Fork Teton Ck **Location Description:** Near Table Mountain

~~UTMs~~: N 43.77745° W - 110.85948 **Datum:** NAD83

Elevation: 9756 ft Site name on GPS: —

Water quality (Recorded with a YSI Pro Plus Mulitprobe)

Parameter	Value	Units
Water temperature	15.5	°C
Barometric pressure		mmHg
DO		% saturation
DO		mg/L
Specific conductivity (SPC)	11.6	µS/cm
Conductivity	9.5	µS/cm
pH	6.76	
ORP	195.3	mV
Air temp		°C

Last calibrated: 8/5 DO: —

Photos taken: Site ✓ Temp Probe —

Weather: Overcast

Substrate type: Cobble

Number of Surbers collected: 6

Aspect: 163°

Slope: 30°

Biofilm rank: Little Medium (Green)

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	2
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	1
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	6
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	4 → large substrate
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (3) 2	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	2 Lots of moss along edge of stream

Temp logger number: Picked up (retrieve) logger Coordinates: UTMs: N — W -

Stream width (m): on back Depth (cm):

Suspended Solids:

Filter number	29	30	31
Volume filtered (mL)	600	600	600

Notes (continue on back):

Granite bedrock, which likely explains low conductivity. NO snowfields or signs of rock glaciers. Likely Groundwater fed stream
Serbus tough to collect b/c of large substrate size, shallow water depth and embeded particles

Stream profile

Width = 0.90 m

Distance (cm)	0	18	36	54	72	90
Depth (cm)	0	10	14	9	14	0

Teton Stoneflies 2016
WYNDD-Tronstad 307-766-3115

Date: 16 August 2016

Time: Arrived: 11:30 Departed: 1:00 Collectors: KT, SH, DF

Stream: Upper Wind Cave **Location Description:** Up Darby Canyon, W. side of Tetons

UTMs: N 43.66607 W - 110.95602 **Datum:** NAD83

Elevation: 8599 ft Site name on GPS: —

Water quality (Recorded with a YSI Pro Plus Mulitprobe)

Parameter	Value	Units
Water temperature	3.0	°C
Barometric pressure		mmHg
DO		% saturation
DO		mg/L
Specific conductivity (SPC)	146.7	µS/cm
Conductivity	74.9	µS/cm
pH	7.90	
ORP	85.9	mV
Air temp		°C

Last calibrated: 8/5 DO: —

Photos taken: Site ✓ Temp Probe —

Weather: Clear sky

Substrate type: Cobble

Number of Surbers collected: 7

Aspect: 20°

Slope: 30°

Biofilm rank: Little Medium (Green)

Pfankuck Index

	Excellent	Good	Fair	Poor	Score
Angularity	Lots of edges (1)	Some edges, some round (2)	Rounded edges (3)	All round (4)	1
Brightness (Dull = biofilm)	Most surfaces dull (1)	Mostly dull, <35% bright (2)	50/50 dull & bright (3)	Mostly bright, >65% (4)	1
Scour	<5% evidence of scour (6)	5-30% of bed scoured (12)	30-50% of bed scoured (18)	>50% of bed scoured (24)	6
Consolidation of substrate	Lots of sizes, tightly packed (2)	Moderately packed, some size overlap (4)	Mostly loose, not much overlap (6)	Totally loose, easily moved (8)	4
Aquatic Veg	Abundant veg, moss in swift water (1)	Common veg or algae, lots in pools (3)	Spotty, in backwater or season algae (3)	Perennial types, very scarce or absent (4)	1

Temp logger number: Retrieve both loggers Coordinates: UTMs: N W -

Stream width (m): on back Depth (cm):

Suspended Solids:

Filter number	33	34	35
Volume filtered (mL)	500	500	500

Notes (continue on back):
Bedrock may be sedimentary. Surbers taught to collect w/ ↓ water levels, steep grade + narrow width. Sampled inside + outside of cave. I sampled bedrock w/ moss + cobble. Stream gets trampled. Found rock covered w/ egg sacs (photos) Zedria adults observed ~96 m inside cave (at the furthest)

cm	left										right
Distance	0	25	50	75	100	125	150	175	200	212	225
Depth	0	1	2	0.5	0	1.5	2	2.5	1	6	0