Teton Stonefli WYNDD-Tron			7	)		Date:	1 Aug 202	1		
Time: Arrived:	1:30	De	parted: 4'00	)	Collectors	: Oel				
Stream: Silv	er Rur	) 24cc	an	Loc	cation Desc	ription:	E side of sile	ver the	n daten wea	_
Coordinates: N		Debis C	185)	W -			Datum:		the poss same	
Elevation:		f	t Site	nam	ne on GPS:	Cilvar			2013	
Water quality (F	Recorded w		Pro Plus Mulitp			0110-0		-	2819	-
Parameter Parameter	COOTACA W	Valu		-						
Water temperatu	ıre	Valu		°C	nits		alibrated: This AM			
Barometric pres			13.6			Photos	taken: Site /	Temp P	robe (did not 1-	e
DO DO					mHg				,	
DO		-	>« <b>     </b>	+-	saturation		er: rel, warm		1 2	
	i-i (CDC		300 8.1		g/L	Substra	ate type: (6666	pehh	le	
Specific conduct	IVITY (SPC	)	23.3		/cm	3 Surb	ers collected: all	in 1 b	oug) (+) extra.	f
Conductivity			18.2	μS	/cm	Diofilm	rank: Little M			0
pH			6.0						Green	
ORP			176	mV		Microb	es collected: no			
Air temp				°C		ANG	: Nel Sun	AVIA	1 bit only	1
Pfankuck Index					3		es collected: no had n	rew)	out the inde	-
	Exce	llent	Good		Fa	÷	D			i
Angularity	Lots of e		Some edges, so round (2)	ome	Rounded		Poor All round (4)	Score	Notes	
Brightness (Dull = biofilm)	Most surdull (1)	faces	Mostly dull, <3 bright (2)	35%	50/50 dall bright (3)		Mostly bright,	3		
Scour	<5% evic	lence of	5-30% of bed		30-50%6		>65% (4) >50% of bed	()	fines dep	
0 11 11	scour (6)		scoured (12)		scoured (1	8)	scoured (24)	12	IN Slow areas	
Consolidation of substrate	Tightly p. (2)	acked	Moderately packed (4)		Mostly loc	ose (6)	Totally loose,	U		
Aquatic Veg	Abundan	veg,	Common veg o	r	Spotty, in		easily moved (8) Perennial types,			
	moss in s water (1)	\	algae, lots in po	ools	backwater seasonal a		very scarce or absent (4)	1	165	
Donlayed Town 1		, ,	ı .				absem (4)			
Deployed Temp 1				ordin	ates: UTMs		W			
Retrieved Temp	logger num	ber: _ >	0155964		Nor	tes: lijw	t Still blinking	!		
Description of log	ger locatio	n:			Tother 50	ed Note	"trenamed"	SNOW	fed is amo	7
Photo numbers of	temp logg	er placem	ent:					Ċ	く	
Suspended Solids				)4		1	Nutrient samples co	llected:	N=5 (142	·
Filter number	S	21	SR2		sR3		Nutrient samples co	PZD)	N=1 Cliller	3
Volume filtered (	mL)	600	600		(e 0)			00)		
	•		labelea	W	blue	A	Algae collected:	N=	3 in formalis	J
			9	rar,	h, c					

WYNDD-Tronstad 307-766-3115

Date: \_\_\_\_\_ Ang 2021

Stream Profile:

(left edge)

\*looking down stream\*

(right edge)

Distance (cm)	Ø	10	20	30	40	50	60	70	80
Depth (cm)	2	6	(0	5.	8	6	6	3	S

#### Flow:

Replicate	Distance (yds)	Time (sec)
1		
2		
3		

Na joint for what a me

### Benthic Organic Matter:

Replicate	Water depth (cm)	Volume (mL)
1		
2	t	
3	1	

Na

3 Rock tracings (chlorophyll a):

Notes:

Didn't manage to get All the teton dots here, protint case!

but 1073 of 674 by buse line, protint case!

Dook too long w/ just one, too long a hite,

weather coming in!

Teton Stonef		_			20	Date	e: 2 Aug	202	f
WYNDD-Tro							J		_}
11110. 7411700	10190	_ D	eparted: ); D[		Collecto	ors: D	eb	from .	
Stream:	Quad (	<u>.(.                                   </u>	(Beartooths)	L	ocation Des	scription:	Same ol	clo	sin'er dans
Coordinates:	N			W -	1		Datun	lin	Volic Cos
Elevation:			ft Site	naı	me on GPS:		ad Cr	n:	Thrude
Water quality ( Parameter	Recorded wit	h a YS	I Pro Plus Mulitpi	robe	e)				2401
Water temperat		Valu	ie	U	nits	Last c	alibrated: Yesterd	ay Do:	tolou
1			6.2	0	C			_	
Barometric pre	ssure			m	mHg	Photo	s taken: Site/	Temp ]	Probe_1/a
DO		11	7	%	saturation	Weath	er: Cloudy	calm	LILACAA
DO			.7	m	g/L				
Specific conduc	tivity (SPC)		8.5		S/cm		ate type: boulde		10
Conductivity					S/cm	3 Surt	pers collected: Ve	3-1	Combo sample
pН			3.3	μι	5/CIII		n rank: Little N		$\sim$ $\oplus$
ORP			0.8						Green 1Sur
Air temp		_	121	m'			es collected:		neta.
		(Mic	dleos Far	°C		ANC	: 1 1 Scint	vial	projec
Pfankuck Index									
	Excelle	nt	Good	_	17.	•	To the second second		
Angularity	Lots of edge	es (1)	Some edges, sor round (2)	ne	Rounded		All round (4)	Score	Notes
Brightness	Most surfac	es	Mostly dull, <35	5%	50/50 dull	&	Mostly bright,	2	
(Dull = biofilm) Scour	dull (1) <5% eviden	22 46	bright (2)		bright (3)		>65% (4)	1	
	scour (6)	8	5-30% of bed scoured (12)		30-50% o		>50% of bed	:8	only went 8
Consolidation of substrate	Tightly pack		Moderately		scoured (1 Mostly loc		scoured (24) Totally loose,		6/2 lots of
Aquatic Veg	(2) Abundant ve	g.	packed (4) Common veg or		-		easily moved (8)	2	MES
*	moss in swift water (1)	t l	algae, lots in poo	ls	Spotty, in backwater seasonal al		Perennial types, very scarce or	t	
Deployed Temp 1	ogger number		na Coor	dina	A. T. T. WELL		absent (4)	nla	71.0
Retrieved Temp 1	ogger number	10	972587		Not	es: Me	of the bilt	5 MSW	· d imalet
Description of log	ger location:		7/4				V		581,10
Photo numbers of	temp logger p	laceme			2				
Suspended Solids:	•		A-17		Mary No.	N	utrient samples col	llected:	V=2 scint.
Filter number	Quo	1 6	Quad 2		Quod ?	D D	utrient samples col OC collected:	=1	vialo
Volume filtered (1	nL) (o(	00	600	1	(000		hl a collected:		CIN) VIR
	et e	77.	2 .	R			gae collected: N	100 S	cint vials
								3	-173

Teton Ston WYNDD-T	eflies 2021 Tronstad 307-766-31	.5	Date:	Aug 21
Stream Prof	\		*looking down stream*	(right edge)
Distance (cr	m)			
Depth (cm)				
Flow:				
Replicate	Distance (yds)	Time (sec)		
1			1/2	
2			( )	,
3			J (XO(N, 20)	
Renthic Or	rganic Matter:	1	<u> </u>	

Benthic	Organi	ic Matter:

Replicate	Water depth (cm)	Volume (mL)		
1				
2				
3				

3 Rock tracings (chlorophyll a):

Subers like pea somp in bucket, w/ blend ob algal + fine seds. Even the road is not in this watershed, I wonder if it Still has some influence.

Also: I noticed one large stonesty in the metaborcoding Surber, but not (necessarily) in the other 3. Makes me wonder if we could use our term date on var. among individual surbers to

Teton Stonefl WYNDD-Troi		-3115				Date	= 8/6/2			
Time: Arrived	11:22	_ De	eparted: 1:95	-	Collector	s: A Eic	hert L. Trons	d Ti	150	
Stream: Wi	n) cave		A.	L	eation Dose		Dach: 0			
Coordinates: 1	13.66	83	, T	V - V	10,955	ription;_	Darlay C	anyon		ž.
ું (્ Elevation:	64 719						nd Carl	:_WA	083	
Water quality (	Recorded with	na YS	I Pro Plus Mulitpi							
Parameter		Valu	ie	7	nits	T	alibrated:		81.	
Water temperat	ure		3.6	00		Last c	alibrated:	_ DO:_	96	
Barometric pres	ssure		56.2	m	mHg	Photos	s taken: Site	Temp I	Probe	
DO			98	%	saturation	Weath	er: 50/inkli	~ M	cas kno	26
DO	۲	16	1.88	m	g/L		ate type: Radrosa		dol. P	6
Specific conduc	tivity (SPC)	15	8.5	μS	S/cm			100	lobre B	andly
Conductivity		10	937	μS	S/cm	3 Surb	ers collected:		*	
pH		-	0.3			Biofiln	n rank: Little M	ledium	Green	
ORP		0	-0/	m\	V	Microh	es collected:			
Air temp		2	68	<b>EE</b>	F	AN	-			
DC-11 1 7 1		F - 5	40			1111		-	1	
Pfankuck Index	ED.	4		- 19	-	-	290	5/9	20:	
Angularity	Excelle  Lots of edge		Good	-	Fai		Poor	Score	Notes	1 4 30
		ì	Some edges, sorround (2)	me	Rounded e	edges (3)	All round (4)	1	. 4	4
Brightness (Dull = biofilm)	Most surfac	es	Mostly dull, <3: bright (2)	5%	50/50 dull bright (3)	&	Mostly bright,	1	1	* 5
Scour	<5% eviden	ce of	5-30% of bed		30-50% of	bed	>65% (4) >50% of bed	7103	·le.	
Consolidation	scour (6) Tightly pack	ed	scoured (12) Moderately		scoured (1) Mostly loo		scoured (24)	4.4	20	25 (
of substrate Aquatic Veg	(2)		packed (4)		Wiostly 100	sc (0)	Totally loose, easily moved (8)	4		
Aquatic veg	Abundant ve moss in swif water (1)		Common veg or alrae, lots in poo		Spotty, in backwater		Perennial types, very scarce or	/	- Co	7
3		1	(2)		seasonal al		absent (4)		1	
Deployed Temp 1	ogger number	dO	5 +1726 Coo	rdin	ates: UTMs:	N	W -		1	
Retrieved Temp l	ogger number	r:201	55969		Note	es: Bla	un druitream	~ 30	- 40 /4	
Description of log	ger location:	Organ	ed location		070.1	IV.	ends C.		AT	
Photo numbers of			0		0)4	1	Sirfice 1	Photo	taken	
Sugnended Calla										
Suspended Solids: Filter number	,					1	Nutrient samples col	llected:_	<u>/</u>	
Volume filtered (1	mL) a	7	1		3	E	OOC collected:	$\sqrt{}$		
- Interest (I	mL) 100	0	1000		1985	C	thl a collected:	/		
						A	lgae collected:	V		

WYNDD-Tronstad 307-766-3115

Date: 8/6/1

Stream Profile:

(left edge)

\*looking down stream\*

(right edge)

Distance (cm)	Ø	30	60	90	120	150	180	210	227
Depth (cm)	Ø	1	1	1	1	3		f	4

Flow:

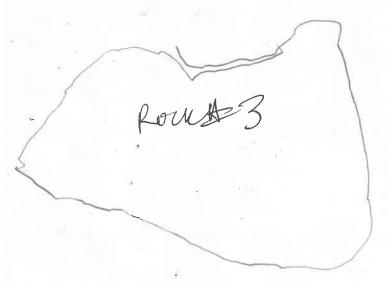
Replicate	Distance (1)	Time (sec)
1	240 inches	11.75
2	240 inches	10.8
3	240 inches	10.05

Benthic Organic Matter:

Replicate	Water depth (cm)	Volume (mL)
1	5.	72
2 .	5.	59
3	10	120



3 Rock tracings (chlorophyll a):





Notes:

Moss cavering bedrock pelaw marth of care. Very unstable below.

2			slope =	3	0				
Teton Stonefli WYNDD-Tron			Sup-			Date	8 Aug	2021	
Time: Arrived:	9an	_ De	parted:		Collector	s: /	SH Shann	n, Bel	Va
Stream: S	Teta	(	reek	Lo	cation Desc		Aloque arigin		rectia
Coordinates: N	143.6	908	76 v	V -	110.80	1094	U	: NAY	783
Elevation:	9805	1			ne on GPS:_		Teton		70_3
Water quality (	Recorded with	a YSI	Pro Plus Mulitpr	obe	)				- /
Parameter		Valu	e		nits	Last ca	alibrated:	DO:	0/8
Water temperat			7.4	°C					
Barometric pres	ssure	53	32,1	m	mHg	Photos	taken: Site	Temp P	robe
DO			17,0	%	saturation	Weath	er:_Suma	Shel	t breeze
DO			1,20	mg	g/L	Syshotm	ate type:	U	.0
Specific conduc	tivity (SPC)		4,4		S/cm	Substra	ate type:	grav	
Conductivity			19.3	Ŀ	/cm	3 Surb	ers collected:	V	
pН		4	7,80		7	Biofiln	rank: Little M	<b>l</b> edium	Green
ORP		-	7,80	mV	I	Migrah	es collected:		
Air temp			-	°C			cs conected:		
						HN		_	
Pfankuck Index			1						
A1	Excelle		Good		Fa		Poor	Score	Notes
Angularity	Lots of edge	es (1)	Some edges, sorround (2)	me	Rounded	edges (3)	All round (4)	2	110103
Brightness	Most surfac	es	Mostly dull, <3:	5%	50/50 dull	&	Mostly bright,	U	
(Dull = biofilm) Scour	dull (1)		bright (2)		bright (3)		>65% (4)	7	
Scour	<5% eviden scour (6)	ce of	5-30% of bed scoured (12)		30-50% of	11	>50% of bed	10	
Consolidation	Tightly pack	ced	Moderately		scoured (1 Mostly loc		scoured (24)	10	
of substrate	(2)		packed (4)		Mostry 100	ose (b)	Totally loose, easily moved (8)	4	
Aquatic Veg	Abundant ve	0,	Common veg or		Spotty, in		Perennial types,		
	moss in swif	t	algae, lots in poo	ols	backwater		very scarce or	4	
	water (1)		(2)		seasonal al		absent (4)	l	
Deployed Temp 1	ogger number	:: <u> </u>	)4/6500 Coo	rdin	ates: UTMs	: N	W -		
Retrieved Temp							-		
Description of log	ger location:	In s	rein before	SW	itely back	and to	G Below	1000	27/1
Photo numbers of	temp logger	Jagon-	ant.			- 0 67	( Della)	sune el	
	temp togget [	nacein	cm:						-

Nutrient samples collected:

DOC collected:

Chl a collected:

Algae collected:

N > 3

WYNDD-Tronsta	ad 307-700-3113	
Stream Profile:	(left edge)	

Date:			

*looking down stream*	
-----------------------	--

edes	
8	(right edge)

Distance (cm)	0	/	2	3	4	5	
Depth (cm)	0	8.5	11	18.5	8	3	

Flow:

Replicate	Distance (Ms)	Time (sec)
1	8	11
2	8	11
3	3	10.7

# Benthic Organic Matter:

Replicate	Water depth (cm)	Volume (mL)	filtered (ml)
1	6	80	20
2	7	100	60
3	8	80	80

3 Rock tracings (chlorophyll a):







Notes: Used epoxy to glue on labels on temp loggers

Teton Stonefl WYNDD-Troi			-3115				Date	5 Ag 2	15.	-
Time: Arrived	: 110	50 p	M Dep	parted:	2:5	D Collectors	s: Deb	Shanna	TAS	or
Stream: NF		20	2	(1				classic N		
Coordinates: 1	N				W -			Datun		
Elevation:			ft	Sit	e nar	ne on GPS:	Nf	ark tetan		sall ideas
Water quality (	Record	ed witl	ı a YSI							
Parameter			Value	)		nits	Total	alibrated: This a	M.	5 A A A
Water temperat	ure		13	3.8	00		Last c	alibrated: 1703	M DO:	ms An
Barometric pres	ssure		1	2.0		TT	Photos	s taken: Site	Temp P	Prohe /
DO					m	mHg		**		
DO			-	10		saturation		er: Starm clo		~
1			8	. )	m	g/L	Substr	ate type: 50 J	deis	Losbles
Specific conduc	tivity (	SPC)	17	2.8	μ	S/cm				
Conductivity				()	μS	S/cm	3 Surp	pers collected:	-5	BYV
pН				96			Biofilm	n rank: Little 🏻 🏌	Iedium	Green
ORP	3		2	-11	m	V	Microb	es collected: T	4/00	has em!
Air temp			MACA	13h but	°C				0	7.00
DC 1 it is				Jemmy!	1	g i.	CAKO	nits)	1 -	
Pfankuck Index	1				÷	-	*,=	37		
Angulavita		Excelle		Good		Fai	r line	Poor	Score	Notes
Angularity	Lots	of edge	s((1)	Some edges, s round (2)	ome	Rounded e	edges (3)	All round (4)	1	Saul_
Brightness	Most	surfac	es	Mostly dull, <	35%	50/50 dada	Q.	M-11 1 1	4-	,
(Dull = biofilm)	dull (	1)		bright (2)		bright (3)		Mostly bright, >65% (4)	2.5	seems browner
Scour		eviden	ce of	5-30% of bed	_	30-50% of	bed	>50% of bed		Thonusial.
Consolidation	Scour		1	scoured((12))		scoured (18		scoured (24)	12	Leposition in
of substrate	(2)	ly pack		Moderately		Mostly loo	se (6)	Totally loose,	2	1.61
Aquatic Veg		dant ve		packed (4) Common veg o	\r	Snotty		easily moved (8)	4	
		in swif	_	algae, lots in p		Spotty, in backwater	or	Perennial types, very scarce or		
	water	(1)		(2)		seasonal al	gae (3)	absent (4)	2	
Deployed Temp 1	ogger 1	number	204	75520co	ordin	6 >		2:10 pm		•
Retrieved Temp								· ·		2
	00		(/3.0)	2000	N.A.	INOU	es:			
Description of log	ger loc	ation:	San	replace,	4/5	of Arg	2 600	ldu River	RIAN	<b>1</b>
Photo numbers of	temp le	ogger p	laceme	nt:		0			J	
				3		The state of the s				
Suspended Solids:						t - ,		Nutrient samples co	llected.	1727
Filter number		NC	+ 1	15 6						113 2
Volume filtered (1	mL)	1	T 1			NFT3		OC collected:		
`		60	U	600		600	) (	thl a collected:	1=3	3

Algae collected: 1 = 3

Date: 5 Ang 2021 **Teton Stoneflies 2021** WYNDD-Tronstad 307-766-3115 \*looking down stream\* (right edge) (left edge) Stream Profile: 80 80 Distance (cm) 20 40 (90 11 2 Depth (cm) neters Flow: Pock #1 Distance ( Time (sec) Replicate 2.5 16.6 1 18.2 2 20.6 3 Benthic Organic Matter: Volume (mL) Water depth (cm) Replicate 60 1 2 0 3 3 Rock tracings (chlorophyll a): Rocketta FOUN AS Notes: Much lower flow man would, but SHIT Flowing cased caddis crawling

			. ,			,	4	3"	Slavos		
Teton Stonefli WYNDD-Tron		5-3115				Date	F Aug		Signe		
Time: Arrived:	6 pm	De	parted:		Collector	s: # 5	A Fabella	Ana			
Stream: S.	AK B	asin.	RG	Lo	cation Desc	rintion.	,				
Coordinates: N	1_43.	696	275 v	V	110	.85	Datum	: AIAD	183		
Elevation:	9340	·	ft Site	nan	ne on GPS:_	Said	n Alaska	Bush	nKG		
Water quality (I	Recorded wit	h a YS	Pro Plus Mulitpi	robe	)				0/-		
Parameter		Valu			nits	Last ca	alibrated:	DO:	8/7		
Water temperati	ıre	2.2		°C		1					
Barometric pres	sure		1.9	m	mHg		taken: Site	_			
DO		90	.5	%	saturation		er: Plasant		in		
DO Smarificant			.40	m	g/L	Substra	ate type: Cob	20	U		
Specific conduct	tivity (SPC)		.8.2	1	S/cm		ers collected:				
Conductivity		-	8.9	μS	l/cm				**		
pH		8.0	57		*	Riotiln	ilm rank: Little Medium Green				
ORP				mV	V	Microb	es collected:				
Air temp	Air temp				:	ANC:					
Decolorate I. I.											
Pfankuck Index-	Excelle	ent	Good		T-						
Angularity	Lots of edg		Some edges, so	me	Rounded .	2002 Score			Notes		
	- P.		round (2)				All round (4)				
Brightness (Dull = biofilm)	Most surfa dull (1)	ces	Mostly dull, <3	5%			Mostly bright,	0			
Scour	<5% evide:	nce of	bright (2) 5-30% of bed		bright (3)	Ch - 1	>65% (4)	Ø			
	scour (6)	-	scoured (12)		30-50% of scoured (1		>50% of bed	/			
Consolidation	Tightly pac	ked	Moderately		Mostly loc		scoured (24) Totally loose,	Ce			
of substrate	(2)	*	packed (4)		100	.50 (0)	easily moved (8)	H I			
Aquatic Veg	Abundant v	-	Common veg or		Spotty, in		Perennial types,				
	moss in sw	ift.	algae, lots in po	ols	backwater		very scarce or	121			
	water (1)		(2)		seasonal a	lgae (3)	absent (4)	01			
Deployed Temp 1	ogger numbe	er: <u>211</u>	01990 Coc	ordin	ates: UTMs	: N	W				
Retrieved Temp	logger numb	er: 10 7	167834		Not	tes:					
Description of log			t head	A	ica	500	0	7			
Photo numbers of			ent:	V	J	1					
	1 30	1				de		, 40			
uspended Solids:						1	Nutrient samples co	llected:	V		
ilter number		1	a		2		OOC collected:	2	N.		
olume filtered (	mL) 1/2/	 '50	1000		1000			$\sqrt{}$	-/		
	100		,,,,,,		000		Chl a collected:				
						A	Algae collected:		1		

WYNDD-Tronstad 307-766-3115

Date:		
_		

Stream Profile:

(left edge)

\*looking down stream\*

(right edge)

Distance (em)	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	1
Depth (cm)	77.5	7.0	5.0	11.0	8.5	6.5	0	4.5	

Flow:

Replicate	Distance (yds) in	Time (sec)
1	167	8.94
2	107	8.78
3	107	9.73

### Benthic Organic Matter:

Replicate	Water depth (cm)	Volume (mL)	
1	6	95	
2	7	72	_
3	5-5	30	

- Enthered 10mm and, 1sts of frais

3 Rock tracings (chlorophyll a):



S.AY #1 #2

Notes:

Rock glacies is limestare + landsape is igneous Egranike) Lander water level than normal.

Teton Stoneflies 2021 WYNDD-Tronstad 307-766-3115						Date:	8 Aug 20	150	
Time: Arrived:_	NOON	Dep	parted: 2:13	5_	Collector	s: Taylo	W, Anna E,	Isab.	ella Deb
Stream: 5.	(ascado	الا	Seep	Loc	ation Dec	eription: S	ame full rea	ich ex	wed! Didn
Coordinates: N		(140	reps (602)	V	- 7	2	(ollec Datum:	tsamp	Source.
Elevation:		ft				S Co	isc Seep	3 1	But all along
Water quality (R	ecorded with			-					<b>9</b>
Parameter		Value		_	iits	Last ca	librated: Vesterday	DO:	now-@ site
Water temperatu		4.		°C			· · · · · · · · · · · · · · · · · · ·		
Barometric press	sure	523.0		mn	nHg		taken: Site		
DO		104		%	saturation	Weathe	er: Mustly	Sur	man warm
DO		9	.6	mg	g/L	Substra	te type: 005e	(ab)	des cours
Specific conduct	ivity (SPC)			μS	/cm		ers collected:	/	Sandi
Conductivity		102.8		μS	/cm		~	/	5114
pH		7.97		1				edium	Green
ORP		150.9		mV	7	Microb	es collected: 71	<u>/</u>	
Air temp			r	°C		AN	C: 1 for	Shan	Var
TO.C 1 1 T 1									
Pfankuck Index	Evcelle	nt.	Cood		TD.	No.			
THE PER LAND	Excelle Lots of edge		Good Some edges, so	ome		air	Poor	Score	Notes
Angularity	Lots of edg	es (1)	Some edges, so round (2)		Rounded	edges (3)	All round (4)	Score	
Angularity Brightness	Lots of edge Most surface	es (1)	Some edges, so round (2) Mostly dull, <3		Rounded 50/50 dul	edges (3)	All round (4)  Mostly bright,	1	loss fine
Angularity  Brightness (Dull = biofilm)	Lots of edge Most surface dull (1)	es (1)	Some edges, so round (2)  Mostly dull, <3 bright (2)		Rounded 50/50 dul bright (3)	edges (3)	All round (4)  Mostly bright, >65% (4)	Score /	lots five sedo: not
Angularity Brightness	Lots of edge Most surface	es (1)	Some edges, so round (2) Mostly dull, <3 bright (2) 5-30% of bed		50/50 dull bright (3) 30-50% d	edges (3)	All round (4)  Mostly bright, >65% (4) >50% of bed	1 23	lots five sedo: not
Angularity  Brightness (Dull = biofilm) Scour  Consolidation	Most surface dull (1) <5% eviden	es (1) es	Some edges, so round (2)  Mostly dull, <3 bright (2)		Rounded 50/50 dul bright (3)	edges (3)	All round (4)  Mostly bright, >65% (4)	1 23 24	loss fine
Angularity  Brightness (Dull = biofilm)  Scour  Consolidation of substrate	Most surface dull (1) <5% evident scour (6) Tightly pack (2)	es (1) es ace of ked	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)	35%	Sounded  50/50 dul bright (3) 30-50% c scoured ( Mostly lo	edges (3)	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)	1 23	lots five sedo: not
Angularity  Brightness (Dull = biofilm) Scour  Consolidation	Most surface dull (1) <5% evident scour (6) Tightly pack (2) Abundant v	es (1)	Some edges, so round (2) Mostly dull, <3 bright (2) 5-30% of bed scoured (12) Moderately packed (4) Common veg o	35%	Spotty, in	edges (3)  Il & of bed 18) oose (6)	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types,	1 23 24	lots five sedo: not
Angularity  Brightness (Dull = biofilm)  Scour  Consolidation of substrate	Most surface dull (1) <5% evident scour (6) Tightly pack (2)	es (1)	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)	35%	Sounded  50/50 dul bright (3) 30-50% c scoured ( Mostly lo	edges (3)  Il & of bed 18) cose (6)	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or	1 23 24	lots five sedo: not
Angularity  Brightness (Dull = biofilm)  Scour  Consolidation of substrate	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant vemoss in swi water (1)	es (1) ees ace of ked eg, ft	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg o algae, lots in po (2)	35%	Spotty, in backwate	edges (3)  Il & of bed 18) oose (6)  r or algae (3)	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types,	1 23 24	lots five seds: not
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate Aquatic Veg	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant vermoss in swith water (1) ogger number	es (1) es	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg of algae, lots in position (2)	35%	Rounded  50/50 dul bright (3) 30-50% c scoured ( Mostly lo Spotty, in backwate seasonal a	edges (3)  Il &  of bed  18)  oose (6)  r or  algae (3)  s: N	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or	1 23 24 4-5 4	lots five seds: not much
Angularity  Brightness (Dull = biofilm)  Scour  Consolidation of substrate  Aquatic Veg  Deployed Temp 1  Retrieved Temp	Most surface dull (1) <5% evident scour (6) Tightly pack (2) Abundant vimoss in swith water (1) ogger number logger number (2)	es (1) es	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg o algae, lots in po (2)	35% or bols	Rounded  50/50 dul bright (3) 30-50% of scoured ( Mostly lo Spotty, in backwate seasonal a attes: UTM	edges (3)  Il &  of bed  18)  oose (6)  r or  algae (3)  s: N  otes: found	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or absent (4)  W-  In Same place	1 23 24 4-5 4	y Submerged
Angularity  Brightness (Dull = biofilm)  Scour  Consolidation of substrate  Aquatic Veg  Deployed Temp 1  Retrieved Temp	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant vermoss in swit water (1) ogger number (2) Ogger number (3) Ogger number (4) Ogger number (5) Ogger number (6) Ogger number (7)	es (1) es (1) es (1) es (1) ked eg, ft er: 2110 We	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg of algae, lots in position (2)  172590  Cool	35% or bols	Rounded  50/50 dul bright (3) 30-50% of scoured ( Mostly lo Spotty, in backwate seasonal a attes: UTM	edges (3)  Il &  of bed  18)  oose (6)  r or  algae (3)  s: N  otes: found	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or absent (4)  W-  In Same place	1 23 24 4-5 4	y Submerged
Angularity  Brightness (Dull = biofilm)  Scour  Consolidation of substrate  Aquatic Veg  Deployed Temp 1  Retrieved Temp 2  Description of log	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant vermoss in swit water (1) ogger number (2) Ogger number (3) Ogger number (4) Ogger number (5) Ogger number (6) Ogger number (7)	es (1) es (1) es (1) es (1) ked eg, ft er: 2110 We	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg of algae, lots in position (2)  172590  Cool	35% or bols	Rounded  50/50 dul bright (3) 30-50% of scoured ( Mostly lo Spotty, in backwate seasonal a attes: UTM	edges (3)  Il &  of bed  18)  oose (6)  r or  algae (3)  s: N  otes: found	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or absent (4)  W-  In Same place	1 23 24 4-5 4	y Submerged
Angularity  Brightness (Dull = biofilm)  Scour  Consolidation of substrate  Aquatic Veg  Deployed Temp 1  Retrieved Temp 2  Description of log	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant vermoss in swit water (1) ogger number (2) Graph of the scour (2) Tightly pace (2) Tightl	es (1) es (1) es (1) es (1) ked eg, ft er: 2110 We placem	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg o algae, lots in po (2)  172590  Lent:	35% or bols	Rounded  50/50 dul bright (3) 30-50% of scoured ( Mostly lo Spotty, in backwate seasonal a attes: UTM	edges (3)  Il &  of bed  18)  oose (6)  r or  algae (3)  s: N  otes: found	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or absent (4)  W-  In Same place	1 23 24 4-5 4	y Submerged
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate Aquatic Veg  Deployed Temp 1  Retrieved Temp 2  Description of log Photo numbers of	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant vermoss in swit water (1) ogger number (2) Graph of the scour (2) Tightly pace (2) Tightl	es (1) es (1) es (1) es (1) ked eg, ft er: 2110 We placem	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg of algae, lots in post (2)  172590  Cool 72590  Lent:	35% or bols	Rounded  50/50 dul bright (3) 30-50% of scoured ( Mostly lo Spotty, in backwate seasonal a attes: UTM	edges (3)  Il &  of bed  18)  oose (6)  r or  algae (3)  s: N  otes: found	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or absent (4)  W- In Same place  Nutrient samples contains a sample of the lower	23 24 4-5 4 location s. R.	y Submerged  Mosts  Mos
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate Aquatic Veg  Deployed Temp 1  Retrieved Temp 2  Description of log Photo numbers of  Suspended Solids	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant vermoss in swit water (1)  logger number ger location: temp logger  5. (25)	es (1) es (1) es (1) es (1) ked eg, ft er: 2110 We placem	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg o algae, lots in po (2)  172590  Lent:	ordin	Rounded  50/50 dul bright (3) 30-50% of scoured ( Mostly lo Spotty, in backwate seasonal a attes: UTM	edges (3)  Il &  of bed  18)  oose (6)  r or  algae (3)  s: N  otes: found	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or absent (4)  W-  In Same place	23 24 4-5 4 loady s. R efore ollected: n=1	y Submerged  Mosts  Mos

### Teton Stoneflies 2021 WYNDD-Tronstad 307-766-3115

Date: 8 Ang 121

Stream Profile:

(left edge)

\*looking down stream\*

(right edge)

Distance (cm)	0	20	40	50	70	90	100	
Depth (cm)	0	5	6	4	3	4	4	

#### Flow:

Replicate	Distance (vols) h	Time (sec)
1	3 m	4.9
2	3 m	4,95 (4.95
3	3 m	5.05

### ¥ Benthic Organic Matter:

Replicate	Water depth (cm)	Volume (mL)
1	(Q	90
2	6	55
3	8	72

3 Rock tracings (chlorophyll a):





Notes:

Filtered the Bum

samples onto spare little filters, back @ camp, There was a lot of fine seds. Each sample took between ~49 filters. wasped them up in multiple in Some spare steins of foil.

WYNDD-Trons	stad 307-766	-3115				Date:	0/10/21		
Time: Arrived:	1:30	_ De <sub>j</sub>	parted: 3:3	<u>0</u>	Collectors	:Str	1/27		
Stream:	liddle Tet	511		Loc	cation Desc	ription:			
Coordinates: N	Same	as a	1309 lways v	V -	110	.79	617 Datum	. NIPAI	DR3
Elevation: 9	578	f					dle Tetan		<u>~0</u> 0
Water quality (R	Recorded with	ı a YSI	Pro Plus Mulitpr						
Parameter		Valu			nits	Last ca	alibrated:	DO:	/10
Water temperatu	ıre		29	°C			( <del>-</del>	_ DO	000
Barometric press	sure	5	36.9	mr	nHg	Photos	taken: Site	Temp Pro	be
DO	= 13	5	829	%	saturation	Weathe	er: Sunny/cle	ar	·
DO		1	1.0°	mg	;/L	Substra	ate type:	Ba	Ider
Specific conduct	ivity (SPC)		2.4	_	/cm	3 Surh	ers collected:		•
Conductivity			1,4	μS	/cm				
рН		6	1.51						Green
ORP				mV	7	Microb	robes collected: V SH		
Air temp	Air temp			°C		ANC:			
Pfankuck Index									
	Excelle	nt.	Good		Fai	r	Poor	Score	Notes
Angularity	Lots of edg	es (1)	Some edges, so round (2)	me	Rounded e	edges (3)		2	Notes
Brightness (Dull = biofilm)	Most surfac	es	Mostly dull, <3 bright (2)	5%	50/50 dull bright (3)	&	Mostly bright, >65% (4)	4	
Scour	<5% evider	ce of	5-30% of bed		30-50% of	bed	>50% of bed	0.1	
	scour (6)		scoured (12)		scoured (1)	8)	scoured (24)	24	
Consolidation of substrate	Tightly pact (2)	ked	Moderately packed (4)		Mostly loo	se (6)	Totally loose, easily moved (8)	6	
Aquatic Veg	Abundant v	eg,	Common veg o	r	Spotty, in		Perennial types,		
	moss in swi	ft	algae, lots in po	ols	backwater	or	very scarce or	W	
	water (1)		(2)		seasonal al		absent (4)	1	
Deployed Temp 1	ogger numbe	er: _ Z	1101992 Cod	ordin	ates: UTMs:	N_ S«	me as always		
Retrieved Temp 1	logger numbe	er:	7767841		Not		t hes photo		
Description of log	ger location:		en pla	ee	-, 6	ela	water	full	
Photo numbers of	temp logger	placem	ent:					N	
									/
Suspended Solids:						1	Nutrient samples co	llected: <u>V</u>	
Filter number		/	2		3	I	DOC collected:	V	
Volume filtered (	mL) 4	50	350		400		Chl a collected:	V	

Date: 8/10/21

Teton	Stoneflies 2021
WYNI	OD-Tronstad 307-766-3115

Date: 8/10/21

Stream I forme	Stream	Profile:
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(left edge)

\*looking down stream\*

(right edge)

Distance (cm)	0	2	4	6	8	10	12	14	16 1820/22
Depth (cm)	0	3	3,5	4.5	,5	0	,5	4.5	3.52 3 11 1

#### Flow:

Replicate	Distance (yds)	Time (sec)
1		
2 .		
3		

Can't stream to select to the book to the selection to th

### Benthic Organic Matter:

Replicate	Water depth (cm)	Volume (mL)
1	. 4	57
2	5	79
3	1.6	62

no sign of evigenment matter all Sediment

3' Rock tracings (chlorophyll a):







Notes:

Strong flow

Slope = 22° Date: 10 Aug 2021

Teton Stoneflies WYNDD-Tronst		3115				Date:_	10 the	200	
Time: Arrived:_	12:20	Depa	arted: 2:45	_	Collectors	: LT, SH	Tesbelly, Karon	W DF	
							lpper Barne	# Can	yan
Coordinates: N	43.76	155						NAD	83
Elevation:	1354	ft	Site	name	on GPS:_	Clau	dueil D	eme	
Water quality (R	ecorded with	a YSI I	Pro Plus Mulitpro	obe)					3 /
Parameter		Value		Un	its <sup>.</sup>	Last cal	librated:	DO:	110
Water temperatu	re <	4	2	°C		DI 4	. 1 /	m . D	. /
Barometric press	ure	54	11.8	mn			175	_	obe
DO		8	8.5	% s	aturation	Weathe	r: Sunny	Breez	
DO -		10	.96	mg	/L	Substra	te type: Gobbe	Bo	ulder
Specific conduct	ivity (SPC)	K	0.6	μS/	cm 、	3 Surba	ers collected:	es t	I for BYU
Conductivity			4	μS/	cm			edium	Green
pН		6	.87					,	
ORP				mV	,	Microb	es collected: (\rightarrow)	-tay	orcorres
Air temp				°C		ANC	es collected: No	in th	las later
	4					11110			
Pfankuck Index									
	Excelle		Good			air (2)	Poor	Score	Notes
Pfankuck Index Angularity	Lots of edg	ges (1)	Good Some edges, so round (2)	ome		air edges (3)	Poor All round (4)	Score	
Angularity Brightness	Lots of edg  Most surface	ges (1)	Some edges, so round (2) Mostly dull, <3		Rounded 50/50 du	edges (3)	All round (4)  Mostly bright,	1	could be
Angularity Brightness (Dull = biofilm)	Lots of edg  Most surfactual (1)	ces (1)	Some edges, so round (2) Mostly dull, <3 bright (2)		Rounded 50/50 dul bright (3)	edges (3)	All round (4)  Mostly bright,  65% (4)	3	could be
Angularity Brightness	Lots of edg  Most surface dull (1) <5% eviden	ces (1)	Some edges, so round (2) Mostly dull, <3 bright (2) 5-30% of bed	5%	50/50 dull bright (3) 30-50% (3)	edges (3)	All round (4)  Mostly bright, 65% (4) >50% of bed	3	could be
Angularity Brightness (Dull = biofilm)	Lots of edg  Most surfactual (1)	ces (1)	Some edges, so round (2) Mostly dull, <3 bright (2)	5%	Rounded 50/50 dul bright (3)	edges (3)  N &  of bed 18)	All round (4)  Mostly bright,  65% (4)	1	could be
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate	Most surface dull (1) <5% evider scour (6) Tightly pace (2)	ces nce of	Some edges, so round (2) Mostly dull, <3 bright (2) 5-30% of bed scoured (12) Moderately packed (4)	55%	Rounded  50/50 dul bright (3) 30-50% c scoured ( Mostly lo	edges (3)  N &  of bed  18)  cose (6)	All round (4)  Mostly bright, 65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)	3	could be 3.510 similar to Middle Te
Angularity  Brightness (Dull = biofilm) Scour  Consolidation	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant v	ges (1) ces nce of ked	Some edges, so round (2) Mostly dull, <3 bright (2) 5-30% of bed scoured (12) Moderately packed (4) Common veg o	55% f.	Spotty, in	edges (3)  N & Of bed 18) Dose (6)	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types,	3	could be 3.510 similar to Middle To
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant values	ges (1) ces nce of ked	Some edges, so round (2) Mostly dull, <3 bright (2) 5-30% of bed scoured (12) Moderately packed (4) Common veg o algae, lots in possible control of the cont	55% f.	Spotty, ir backwate	edges (3)  N & Of bed 18) Oose (6)	All round (4)  Mostly bright, 65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or	3	could be
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate Aquatic Veg	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant value moss in swewater (1)	ces (1) ces nce of ked veg, ift	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg of algae, lots in post (2)	r pols	Rounded  50/50 dul bright (3) 30-50% c scoured ( Mostly lo  Spotty, in backwate seasonal	edges (3)  N & Of bed 18) Doose (6)  If or or algae (3)	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types,	3	could be 3.510 similar to Middle Te
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant value moss in swewater (1)	ces (1) ces nce of ked veg, ift	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg of algae, lots in post (2)	r pols	Spotty, ir backwate	edges (3)  N & Of bed 18) Doose (6)  If or or algae (3)	All round (4)  Mostly bright, 65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or	3	could be 3.510 similar to Middle Te
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate Aquatic Veg	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant values in swater (1)	res (1) ces nce of cked reg, ift	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg of algae, lots in post (2)	r pols	Rounded  50/50 dull bright (3) 30-50% c scoured ( Mostly lo  Spotty, in backwate seasonal states: UTM	edges (3)  N & Of bed 18) Doose (6)  If or or algae (3)	All round (4)  Mostly bright, >65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or absent (4)	3	could be 3.510 similar to Middle To
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate Aquatic Veg  Deployed Temp	Most surface dull (1) <5% evident scour (6) Tightly pace (2) Abundant value moss in swater (1) logger number	res (1) res res reces reces reces reces reces reces reces	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg of algae, lots in post (2)	r pols	Rounded  50/50 dull bright (3) 30-50% c scoured ( Mostly lo  Spotty, in backwate seasonal states: UTM	edges (3)  N & Of bed 18) Dose (6)  If or or algae (3)  Is: N	All round (4)  Mostly bright, 65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or absent (4)  W -	1 3 24 4	could be 3.510 similar to Middle Te
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate Aquatic Veg  Deployed Temp	Most surface dull (1) <5% evides scour (6) Tightly pace (2) Abundant v moss in sw water (1) logger number signer location	ces (1) ces nce of cked reg, ift er: 20 cer: 10	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg of algae, lots in position (2)  972588	r pols	Rounded  50/50 dull bright (3) 30-50% c scoured ( Mostly lo  Spotty, in backwate seasonal states: UTM	edges (3)  N & Of bed 18)  oose (6)  or or algae (3)  Is: N	All round (4)  Mostly bright,  65% (4)  >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or absent (4)  W-	1 3 24 4	could be singler to middle to swift theo
Angularity  Brightness (Dull = biofilm) Scour  Consolidation of substrate Aquatic Veg  Deployed Temp Retrieved Temp Description of log	Most surface dull (1) <5% evides scour (6) Tightly pace (2) Abundant v moss in sw water (1) logger number gger location	ces (1) ces nce of cked reg, ift er: 20 cer: 10	Some edges, so round (2)  Mostly dull, <3 bright (2)  5-30% of bed scoured (12)  Moderately packed (4)  Common veg of algae, lots in position (2)  972588	r pols	Rounded  50/50 dul bright (3) 30-50% c scoured ( Mostly lo Spotty, in backwate seasonal :	edges (3)  N. & Of bed 18) Doose (6)  If or or algae (3)  Is: N	All round (4)  Mostly bright, 65% (4) >50% of bed scoured (24)  Totally loose, easily moved (8)  Perennial types, very scarce or absent (4)  W-	1 3 24 4	could be sinitar to middle to swift theo

CLO 3 350

Filter number

Volume filtered (mL)

CUD 1

300

CLD 2

350

DOC collected:

Chl a collected:

Algae collected:

### Teton Stoneflies 2021 WYNDD-Tronstad 307-766-3115

Date: 10 Ang 2021

Stream Profile:

(left edge)

\*looking down stream\*

(right edge)

Distance ( )	0	1	2	3	4	5	6	7	ව	9	10
Depth (cm)	(	4	Ó	1	5	3	5	9	7	21	1

#### Flow:

Replicate	Distance (prode)	Time (sec)
1	43	4.95
2	4 3	5.64
3	3	5.75

### Benthic Organic Matter:

Replicate	Water depth (cm)	Volume (mL)	vol. filtered (ml)
1	4	60	18
2	5.5	95	20
3	4	30	10

# 3 Rock tracings (chlorophyll a):



Notes: Geology = mesta morphic + granite





307-766-3115

Date: 11 Aug 2021

Stream:	:11:30		parted:  -		Collector	s:Sat	t Karen (a	sey,	Deb
Stream:	VE 114 -			L	ocation Des	cription:	above Del	ta L	ake
Coordinates: 1	N			W -			Datum	*	No
Elevation:		1	t Sit	e nar	ne on GPS:	(Sav			varia
Water quality (	Recorded witl	ı a YSI	Pro Plus Mulit	robe	·)	160		500	(har)
Parameter		Valu	e		nits	Lasta	alibrated: 3 days ago	. 7.0	- 1-
Water temperat	ure		2.4	°(					
Barometric pres	ssure		\$ 551	m	mHg	Photos	s taken: Site 🗸	Temp P	Probe
DO			113		saturation	Weath	er Marm, par	the old	nia de
DO	H		11.2	-	g/L	Subate	ate type: gravel	Cal II a	Journa
Specific conduc	tivity (SPC)		9,2	11.5	S/cm				
Conductivity	e				S/cm	3 Surb	pers collected:	(41)4	for BYU ->.
pH			5.2	μι	S/CIII	Biofiln	n rank: Little M	ledium (	Green
ORP			7.2	m	V		pes collected:		GICCH
Air temp			13.5	°C					I M
			13.6			HIN	C: V N=1	to Mr	J PV
Pfankuck Index					E				
A X •	Excelle		Good		Fai	ir	Poor	Score	NT 4
Angularity	Lots of edge		Some edges, so round (2)	ome	Rounded e		All round (4)	2	Notes
Brightness (Dull = biofilm)	Most surface dull (1)	es	Mostly dull, < bright (2)	35%	50/50 dull	&	Mostly bright,	U	
Scour	<5% evidence	ce of	5-30% of bed	1	bright (3) 30-50% of	bed	>65% (4) >50% of bed		0 411
Consolidation	scour (6) Tightly pack	ad	scoured (12)		scoured (1	8)	scoured (24)	15	Fight area
of substrate	(2)		Moderately packed (4)		Mostly loo	se (6)	Totally loose,	1 -	
Aquatic Veg	Abundant ve		Common veg o	r	Spotty, in		easily moved (8) Perennial types,	0	
	moss in swift water (1)	t	algae, lots in po		backwater		very scarce or	4	moss in
			(2)		seasonal al	-	absent (4)		SWIH 20
Deployed Temp l	ogger number	: 211	0/989 Cod	ordin	ates: UTMs:	N -	W -		
Retrieved Temp 1					Note	-			
escription of log				57				8	
hoto numbers of				5086	c two pl	none p	hotos		
uspended Solids:	r					3	Indui-		112 time
ilter number				-			nument samples col	lected:	V- L to
olume filtered (1	Delt		Deltaz		De Han?	D	Nutrient samples col	N=1	Vial son
Intered (I	3	OO	250		250		thl a collected:	Mac.	
£							Igae collected: N	=3 f	Schannon
								R	ad in fled

WYNDD-Tronstad 307-766-3115

Date: 08/11/202

Stream Profile:

(left edge)

\*looking down stream\*

(right edge)

Distance (cm)	0	30	60	90	120	150	180	210	X
Depth (cm)	6	10	19	15	20	14	19	10	

Flow:

Replicate	Distance (yds)	Time (sec)
1	4.2	2.85
2	4-2	2.95
3	42	2.65

# Benthic Organic Matter:

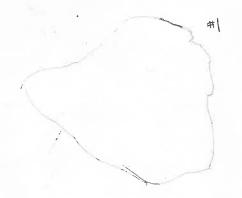
Replicate	Water depth (cm)	Volume (mL)
1	13	98
2	10	76
3	12 -	66

vol filtered (ml)

55

LeO

3 Rock tracings (chlorophyll a):







Notes:

Geology gravite + metamorphic s.m. I'an to Gurvet Comyon Stream has that beautiful grassh but sporkly" Sand.

Teton Stoneflies WYNDD-Tronsta		3115	S. A.			Date:_	. 0	2021	Ke
Time: Arrived:	2:00	Depa	rted: 3:35		Collectors	: LT, 81	A Anna, Kare	n O. P.	sabolla,
Stream: Gr	77le				tion Desc				
Coordinates: N_	43.7	976	w w		116,8	0715	Datum:_	NAD8	13
Elevation:	551	ft	Site	name	on GPS:_	Gr	122/4		
Water quality (Re	ecorded with	a YSI F	Pro Plus Mulitpro	obe)			ibrated: 3/1)	DO: 8/1	7
Parameter		Value	in.	Uni	its	Last cal	ibrated: ///	DO: 0/1	7
Water temperatur	re	19.7		°C			taken: Site	Town Duck	
Barometric press	ure	539	.4	mm	Hg			_	
DO 4		85.		% s	aturation		r: Clear, SW		
DO		7.	75	mg/	'L	Substrat	te type: <u>Granel</u>	, (dob)	2_
Specific conducti	ivity (SPC)	23	. 6	μS/	cm	3 Surbe	ers collected:	V 54	
Conductivity		21.	3	μS/	cm				Green
рН		7.	60						Jicen
ORP				mV			es collected:	SEI	
Air temp >				°C	·	ANC			
Pfankuek Index									
Trankuck muck	Excell	ent	Good		E	air	Poor	Score	Notes
Angularity	Lots of edg		Some edges, so round (2)	ome		edges (3)	All round (4)	(	11000
Brightness	Most surfa	ces	Mostly dull, <	35%	50/50 du		Mostly bright,	1./	
(Dull = biofilm)  Scour	dull (1) <5% evide	nce of	bright (2) 5-30% of bed	_	bright (3)		>65% (4) >50% of bed	/	
	scour (6)		scoured (12)		scoured (	18)	scoured (24)	6	
Consolidation of substrate	Tightly part (2)	cked	Moderately packed (4)		Mostly lo	oose (6)	Totally loose, easily moved (8)	4	
Aquatic Veg	Abundant	-	Common veg		Spotty, in		Perennial types,	7	
	moss in sw water (1)	/1 <b>I</b> T	algae, lots in po	oois	backwate seasonal		very scarce or absent (4)	d	
Deployed Temp		neri 7		ordin					
Retrieved Temp	logger num	per:2	0155069		N	otes:			
Description of lo	gger location	n:S	ame		In	phe	2		
Photo numbers of	f temp logge	r placem	ent: No n	ew	photos				,
- Pa	-w	4		7-			Nutrient samples c	ollected:	1
Suspended Solids Filter number	s:	1	2		3			1	3
	(mI)	1					DOC collected:	1/	-
Volume filtered	(mr)	000	1000		(e00		Chl a collected:	1	
1			gr				Algae collected:	V	_/

### **Teton Stoneflies 2021** WYNDD-Tronstad 307-766-3115

Date: Aug 12 2021

Stream Profile:

(left edge)

\*looking down stream\*

(right edge)

Distance (cm)	0	10	20	30	40	50	00	(edge)	
Depth (cm)	1	2	4.3	5	3.5	1	1	0	

#### Flow:

Replicate	Distance (Mds)	Time (sec)
1	3.3	22.6
2.	3.3	18
3	3.3	16.6

#### Benthic Organic Matter:

Replicate	Water depth (cm)	Volume (mL)		
1	3	38		
2	3.5	40		
3	8	51		

Fishered (m)
34
40
36

Rock #3

3 Rock tracings (chlorophyll a):



Rock #2

Notes:

No snapeld on the war dam. Ting snarfield on mountainside. Aydrus disappeared from 2 weeks ago, ogo when Karen visited. Flow was a 2x 2 weeks ago, Difficult to take Surbers by at low flow. Tons of money flowers, butter less to bees. Very hot!

Slope: 24°

Teton	84	ATI-A	2021
Leton	21011	emes	2412.1

WYNDD-Tronstad 307-766-3115

Date: 13 Aug 2021

Time: Arrived:_	D: 20	Dep	arted:		Collectors	Lusha	Scott, Anna	1, Kar	in, Isabella
Stream: 905h	er			Loc	ation Desci	ription:	,		
Coordinates: N	43.79	385	W	7	10.77	860	Datum:	NAK	183
Elevation: 8	046	ft	Site	name	on GPS:	jusher			
Water quality (R	ecorded with	a YSI	Pro Plus Mulitpr	obe)			81		8/
Parameter		Value		Un	its	Last cal	librated: 8/11	DO:	7.13
Water temperatur	re	4.	o°C	°C			taken: Site		
Barometric press	ure	56	9.3	mn	ıHg .			Temp Pro	obe
DO "/		85	11.	% s	saturation	Weathe	T: Sunny	(al	M
DO		1	.67	mg	/L	Substra	te type:	let 1	Bailders
Specific conducti	ivity (SPC)		. 6	μS/	'em	3 Surbe	ers collected:		
Conductivity		23	5.1	μS/	'cm			7	<b>Q</b> 50
pН		7.	37			Biofilm	rank: Little M	edium	Green
ORP				mV	,		es collected:		
Air temp		×		°C		AN	ANC:		
Pfankuck Index			4					**	
	Excelle	ent	Good		Fa	ir	Poor	Score	Notes
Angularity	Lots of edg		Some edges, so round (2)				All round (4)	1	110005
Brightness	Most surfac	ces	Mostly dull, <3	5%	- X		Mostly bright,	25	
(Dull = biofilm)  Scour	dull (1) <5% evider	202 of	bright (2) 5-30% of bed	bright (3)		C1 1	>65% (4)	11.0	
Scoul	scour (6)	100 01	scoured (12)		30-50% of scoured (1		>50% of bed scoured (24)	24	
Consolidation	Tightly pac	ked	Moderately		Mostly lo		Totally loose,		
of substrate	(2)		packed (4)		1,10001, 10,	(0)	easily moved (8)	H	
Aquatic Veg	Abundant v	eg,	Common veg o	r	Spotty, in		Perennial types,		
	moss in swi water (1)	ift	algae, lots in po	ools	backwater seasonal a		very scarce or absent (4)	[	
Deployed Temp 1		2 H		1	ates: UTMs				
		-			ates: UTMs	s: N	W		
Retrieved Temp	logger numb	er: <u>1</u>	015546/		No	ites: Usea	a shut moter	rd to	a tach of
Description of log	gger location	- 0	Joseph 1	NG	8 148	+ ba	roger in 4	re 11	vator,
Photo numbers of	temp logger	placen	nent:						
							0		1
Suspended Solids							Nutrient samples co	ollected:_	<del>\</del>
Filter number		(	2		3		DOC collected:		/
Volume filtered	(mL) (a	00	600		600	5	Chl a collected:	/	
							Algae collected:	/	

WYNDD-Tronstad 307-766-3115

Date: 13 Aug 2021

Stream Profile:

(left edge)

5

\*looking down stream\* (right edge)

Distance (plan)	0	1	2	3	4	5	5.5	
Depth (cm)	1	5	13	4	9	13	0	

#### Flow:

Replicate	Distance (yds) m	Time (sec)
1	4	3.10
2	4	2.31
3	4	4.02

#### Benthic Organic Matter:

Replicate	Water depth (cm)	Volume (mL)	File
1	10	80	3
2	5	30	10
3	0	80	50



3 Rock tracings (chlorophyll a):





Notes:

A little lower this year, losse bardy in water so temps may be marginel. Good flaw. Fapada + Lednia

Teton Stoneflies WYNDD-Tronsta						Date:_	0	121	
Time: Arrived:	12:06	Depa	rted:		Collectors	at !	8H Karer	J.	
Stream: Scream	illet	Glac			tion Desc				
Coordinates: N		395	ww		110.7	565	Datum:	NADS	33
Elevation: 88	73	ft	Site	name	on GPS:_				
Water quality (Re	ecorded with	a YSI I	Pro Plus Mulitpro	obe)			7/	DO: 3/	<b>'</b> a
Parameter		Value		Uni	its	Last cal	ibrated: 8/1	DO:	1
Water temperatur	re		5.8	°C				Temp Prob	
Barometric press	иге		51.5	mm	Hg	Photos	aken. Site v	Temp 1100	
DO		8	5,5	% s	aturation	Weather	" dunny	Bree	34
DO			0.85	mg/	L	Substrat	te type: Colomb	+ Baul	dus
Specific conducti	vity (SPC)		2.4	μS/	cm		ers collected:		
Conductivity		_	.5	μS/	cm				,
pH			1.26			Biofilm	rank: Little M	edium C	reen
ORP				mV	Microbes collected:		es collected:		
Air temp				°C		ANO		_	
Pfankuck Index				:	· Land	,	((	12	
	Excell		Good			air	Poor	Score	Notes
Angularity	Lots of edg	ges (1)	Some edges, so round (2)	ome	Rounded	l edges (3)	All round (4)	3	
Brightness (Dull = biofilm)	Most surfa	ces	Mostly dull, <	35%	50/50 du bright (3	e.	Mostly bright, >65% (4)	4	
Scour	dull (1) <5% evide	nce of	bright (2) 5-30% of bed		30-50%		>50% of bed	26,0	
	scour (6)		scoured (12)		scoured (	` '	scoured (24)	24	
Consolidation of substrate	Tightly pace (2)	cked	Moderately packed (4)		Mostly lo	oose (6)	Totally loose, easily moved (8)	6	
Aquatic Veg	Abundant	_	Common veg		Spotty, in		Perennial types,	4	
	moss in sw water (1)		algae, lots in per (2)	ools	backwate seasonal	er or algae (3)	very scarce or absent (4)	/	
Deployed Temp				ordin			W -		
Retrieved Temp			20416499			lotes: Di	do 4 mare	)	
Description of lo	gger location	n:	3	_11					
Photo numbers o	f temp logge	r placen	nent:						
C							Nutrient samples of	collected:	
Suspended Solids Filter number	S:	/	WC 7		2			/	
	(mall)	/	d		2		DOC collected:	V	
Volume filtered	1	000	1000		1000		Chl a collected:	V	
	ñ	iter yupored	Filter	e cl	Filty	tried	Algae collected:	V	

#### **Teton Stoneflies 2021** WYNDD-Tronstad 307-766-3115

Date:			

Stream	Profile

e: (left edge)

\*looking down stream\*

(right edge)

Distance (m)	002	4	6	8	10	12	14	-18	
Depth,(cm)	0 14	15	14	5,5		1.5	3	8	

#### Flow:

Replicate	Distance (yds)	Time (sec)
1	10 #	4,4
2		2.3
3		1.85

M

## Benthic Organic Matter:

Replicate	Water depth (cm)	Volume (mL)
1	6	72
2	5	90
3	12	120

Filtered 80

120

# 3 Rock tracings (chlorophyll a):

Jackson Lake very lew. Bearpaw Bay dry. Lets of flow in Stream Keren found dednia, Blephoriserids

				8	86	pe	10 A	2.4	
Teton Stoneflies WYNDD-Trons		3115				Date:_	13 Aug	2021	
Time: Arrived:_	8:30	Dep	arted:		Collectors	LT,	SH		
Stream: Po	unt brus	in RO	9	Loc	ation Desc	ription:			
Coordinates: N	43.78	539	<u>/</u> w	7	10.79	1382	Datum:		
Elevation: 88	764	ft	Site	name	e on GPS:_				
Water quality (R	ecorded with						81.	7	47
Parameter		Value		Un °C	its	Last ca	librated:	DO:	1/13_
Water temperatu		9	.3			Photos	taken: Site	Temp Pro	be
Barometric press	ure	55	1.9		ıHg				
DO		75	5,9	%.8	saturation		r: Sunny C		
DO		- 7	48	mg	/L	Substra	te type: Coloble	SVave	el balder
Specific conduct	ivity (SPC)	4	8.3	μS/	/cm		ers collected:	O,	1
Conductivity	30	2	4.3	μS/	'cm				
pН		3	731			Biofilm	rank: Little M	edium	Green
ORP				mV	7	Microb	es collected:		
Air temp				°C		ANC	•		
						MIC		-	
Pfankuck Index			T .						
Angularity	Lots of edg		Good Some edges, so	nma		edges (3)	Poor All round (4)	Score	Notes
Angularity	Lots of cug	cs (1)	round (2)	лис	Rounded	euges (3)	All Ioulia (4)		
Brightness	Most surface	ces	Mostly dull, <	35%	1		Mostly bright,		
(Dull = biofilm) Scour	dull (1) <5% evide	nce of	bright (2) 5-30% of bed		bright (3)		>65% (4) >50% of bed		
Scoul	scour (6)	100 01	scoured (12)		scoured (		scoured (24)		
Consolidation	Tightly pac	ked	Moderately		Mostly lo	ose (6)	Totally loose,		
of substrate Aquatic Veg	(2) Abundant v	reo	packed (4) Common veg o	nr .	Spotty, in	1	easily moved (8) Perennial types,		
riquitie v og	moss in sw		algae, lots in po		backwate	r or	very scarce or		
	water (1)		(2)		seasonal a	algae (3)	absent (4)		
Deployed Temp	logger numb	er: a	086140x co	ordir	ates: UTM	ls: N	W -		
Retrieved Temp	1 1	0,	NEC 81.	_					
Retrieved Temp	logger numb	er:	115500		N	otes:			
Description of lo	gger location								
Photo numbers of	f temp logger	placen	nent:						
Suspended Solids							Nutrient samples c	ollected:_	
Filter number							DOC 02112242-4-		
	(mI)						DOC collected:		
Volume filtered	(ML)		F				Chl a collected:		
			*				Algae collected:	1	

	Date:		
	*looki down st	tream*	(right edge)
itoneflies 2021 iD-Tronstad 307-766-3115	*looki		
a Profile: (left edge)			
nce (cm)			
th (cm)  Time (sec			
eplicate Distance (yds)			
2			
Benthic Organic Matter:  Vo	olume (mL)		
Benthic Organic  Water depth (cm)			
1			
2			
3 Rock tracings (chlorophyll a):			

Notes: Not flaving Only a carple of pools, including the Redogs Notes: Not flaving only one deeped pool, Grant Geology data lossed being in weeks ago. Stream still flaving but yearen only midges topulate in pools.