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for Outdoor writing people



Rite in the Rain
A patented, environmentally
responsible, all-weather writing paper
that sheds water and enables you to
write anywhere, in any weather.

Using a pencil or all-weather pen,
Rite in the Rain ensures that your
notes survive the rigors of the field,
regardless of the conditions.

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Field Book # TC-1
TRAPPER'S CREEK
DATA
9/23/2013



Rite in the Rain
ALL-WEATHER
FIELD
No 351

BIRCH CREEK
DATA
8/09/2014
SNEED CREEK
DATA
8/10/2014 - 8/12/14
Casswell CREEK
8/12/14 - 8/14/14

8/9/2014 2:30 PM
 Bill Follerton (CWF) Bob Tierney (RET)

Birch Cr.

Document conditions - Minimal
 sediment load since creek
 flowing out of Fish Lake
 just W/S of Talketta Spur
 Road.

Camera: T#2

Photo 104 - 0015 - Looking W/S
 into Fish Lake from Caswell
 Cr. just W/S of Spur Road
 Culvert.

0016 - Looking D/S of culvert

(W/S side) @ Spur Road

(2 culvert - 5' Dia.). Only
 RH culvert has flow.

Bed gravel & small cobbles
 leading into culvert.

8/9/14

0017 - Looking W/S of culvert
 from D/S side of Spur
 Road. 26' deep scour
 hole D/S of culvert &
 scoured out eddy area
 extending ~50' W/S
 of culvert.

0018 - Looking D/S in channel
 below culvert. Ripple
 created by deposited
 gravel (1" to 2") at
 end of scour hole.

0019 - Looking W/S of creek
 before it enters small
 ponded area.

0020 - Looking D/S of Birch
 Creek entering ponded area.
 (Note floating aquatic plants)
 Red is gravel between culvert
 & here.

8/9/14

0021- D/S in section w/ repeating waves of gravel & sand. These are spaced ~ 3-4 channel widths. Many areas looking like are each crest of gravel waves.

0022- D/S in section w/ repeating gravel waves. Flow splits around small island/reef bar. Note waves @ D/S end of island.

0023- Portrait view across top of sand & gravel wave I am standing on. Note agentic plank grasses @ D/S face of wave.

Channel is typically 15'-20' wide and as narrow as 10' in a few spots.

0024- Looking D/S where horse tail has increased open portion of channel to ~10'. Bed is agentic plants.

8/9/14

0025 - Looking D/S from sand location as 0024. The gravel/sand waves are not present. Bed is still covered w/ submerged agentic plants.

0026 - Looking D/S channel widens, much of bed (sand/gravel) is covered with agentic plants. Channel width increases to ~30'.

0027 - Looking D/S in channel @ ripple formed by sand/gravel berm ~20' D/S. Only berm/wave for several 100' in either direction.

0028 - Looking D/S from 30' D/S of tide. Staff gage CR # 41816 on LB) gage reading 1.85' 4:06 PM 8/9/14. Bed is gravel w/ some cobble.

8/9/14

#029 - Looking D/S from 30' D/S of trib. staff gage. Note alt. area of disturbed/ripply water surface. Each of these is a small gravel wave.

→ Took pebble count approximately @ RH side of channel adjacent to trib gage

Using Trimble #2 (Rental unit)

Pebble Count Birch Creek S-1

0030 - Photo of trib. gage station. Equipment appears to be in good shape

Birch Creek S-1 (Pebble Count)

Surface	N	E
	301	162
	458	513
	9.12	1.3
	ft	ft

8/9/14

0031- RB → LB @ S-1 Pebble Count
0032- LB → RB @ S-1 Pebble Count

Backup photos Data Sheets
Pebble Count Birch S-1

~~0034~~ 0033 - Backup Page 1-S-1
~~0035~~ 0034 - Backup Page 2-S-1
Pebble Count Birch Creek

0035 - Looking D/S from ~300'
D/S of gage station

0036 - Looking D/S from ~300'
D/S of gage station. Same of gravel/sand waves continues (note ripples on surface where waves are bedded). Still considerable vegetation on bed (corns 20-50%)

8/10/14 - Sheep Creek

Arrive 9:00 AM WTF, RET

First conducted recon to identify

Potential X-Section Locations

Walked to D/S end of All A2aim

Property (We have access permissions)

& started working U/S.

SET 12 X-SECTION'S, BEC both

sides & stamped

SH-XX R/L

8/10/14

FR

Surveyed SH-19 & SH-18

left site @ 6:00 PM

Sheep Creek transport gravel &

cobble sized sediments. Noted large

point bars & eroding banks.

Signs of sand deposition

throughout willow/alder area within

channel / low flood plain.

8/10/14

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8/11/2014 4:00 PM
RUN LEVEL LOG FROM STA-22
TO SH-11

STA	H1	-	E1	Note
SH-22 LEP B&C	3.75	103.75	100.00	Assumed CEL

SH-21 LEP B&C			3.12	100.63
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SH-20 LEP B&C			6.29	97.46
------------------	--	--	------	-------

SH-19 LEP B&C			7.22	96.61
------------------	--	--	------	-------

SH-18 LEP B&C			7.30	96.53
------------------	--	--	------	-------

SH-17 LEP B&C			5.38	96.25
------------------	--	--	------	-------

SH-16 LEP B&C			3.17	98.46
------------------	--	--	------	-------

SH-15 LEP B&C			5.04	96.75
------------------	--	--	------	-------

SH-14 LEP B&C			3.71	98.08
------------------	--	--	------	-------

SH-13 LEP B&C			4.31	97.86
------------------	--	--	------	-------

8/11/14

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8/11/2014 - Sheep Creek Level Log (cont.)

STA	+	HI	-	EI	Notes
SH-12 LEP BEC #	4.94	98.81	8.30	93.87	
SH-11 LEP BEC #	4.83	98.59	5.05	93.76	
SH-13 LEP BEC #	8.21	102.08	4.72	93.87	
SH-12 LEP BEC			4.23	97.85	
SH-14 LEP BEC #	3.58	101.66	4.00	98.08	
SH-15 LEP BEC #			4.91	96.75	
SH-16 LEP BEC #	5.42	103.88	3.20	98.46	
SH-17 LEP BEC			7.63	96.25	
SH-18 LEP BEC			7.35	96.53	
SH-19 LEP BEC #	6.79	103.39	7.28	96.60	
SH-20 LEP BEC			5.94	97.45	
SH-21 LEP BEC #	2.82	103.43	2.78	100.61	

8/11/14

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36 8/11/14 Sheep Creek Level Loop (Cont.)

STA	+ H1	-	EL	Notes
SH-22LEP		3.45	99.98	

R&C

END LOOP 6:15 PM

8/12/14 - Walk to Confluence of Sheep & Susitna

Walked to confluence w/ Susitna

Side channel. Just ~~west~~ ^{west} 1500' D/S of

SH-11 channel widens and gradient

starts to decrease, bed is finer

with more gravel and less cobbles

Flow splits & forms Δ island.

Took left channel to water contour

walking D/S. Channel has very

large bar, ~4' high, still some

cobble @ head of bar. Considerable

LWD is deposited and channel

meanders sharp 180° bend to

right, then ~90° abrupt bend to

left the water D/S and

regions other channel several 100'

W of confluence. At confluence,

the W side of the side channel

is pooled up from

8/11/14

$\Delta = -0.022$

OK

backwater on the fine Sheep

Creek deposits and primary this,

flow is not that great. Channel

talks to side channel picks

up energy from the flow and

gradient increases below the

confluence.

At the confluence, considerable

gravel deposit, from Sheep Creek.

Substrate gravel from Sheep Creek

Creates gravel bar in the Susitna

side channel.

Confluence area is free to

adjust & distribute sediment

load & this appears to be

mechanism. Should reevaluate

to get idea of lateral change.

Return to the River

37

8/13/14 WTR, AUS, PET
Caswell Cr. 8:30 AM

Walked up Creek & set flags
4, 15 X-Sections. Last 4
are at a gravel wave/slag
and set up to make hydrographs/
transport @ this location.
This was the first feature
of this kind we reached
travelling W/S. Very similar
to ones we saw in Birch
Creek. We did not core
a grassy area until about
500 ft into system, then
ran into thin & ragged
intervals of SD also. They
also have emergent veg
on the D/S level same
sand (not as rich sand
as Birch - plants are
compacted here & transports
the sand more readily)

Walked W/S about 3,000 to 3,500'
Took photos @ point we
turn around
TT core #2 (Folger 104)

0136 - both W/S @ pt. westward
D137
turned around

N. 61° 56' 45"
E. 150° 04' 32"

0138 Long c/s from
0139 gravel wave/slag

(Distance is @ CA-123CANT)
0139 Long D/S from next
to last gravel wave/slag

N. 61° 56' 42"
E. 150° 04' 36"

0140 - Lots w/s from D/S
Most ^{P/S} gravel wave/slug

(@ CA-13)

0141 - Lod D/S from most D/S
Gravel wave/slug

N 61° 56' 36"
E 150° 04' 36"

Found another gravel wave/slug

Fun D/S between X-sections (A-B)

8 CA-X10 (CA-10 also near gravel wave)

104 0142 - Lots D/S from another

slug, wave D/S
10143 - bridge looking D/S
Fun next gravel wave/slug

Added Sect. ~~to~~ here

Can interpolate X-Sect 20'
w/s D/S w/ Depth of 15'

~~BACK~~
~~BLANK~~

8/13/14

Set a total of 16 X-Sections,
They are #1'd CA-1 through
CA-15 with an additional
CA10.5 between CA-10 &
CA-11.

END CASWELL CREEK
IN THIS FIELD BOOK

SWITCHED TO

"CASWELL CREEK
8/14/14 - 8/15/2014"

BACK-UP PHOTOGRAPHY
BULLS FIELD BOOK (UTC) #1
(UTC-1)

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