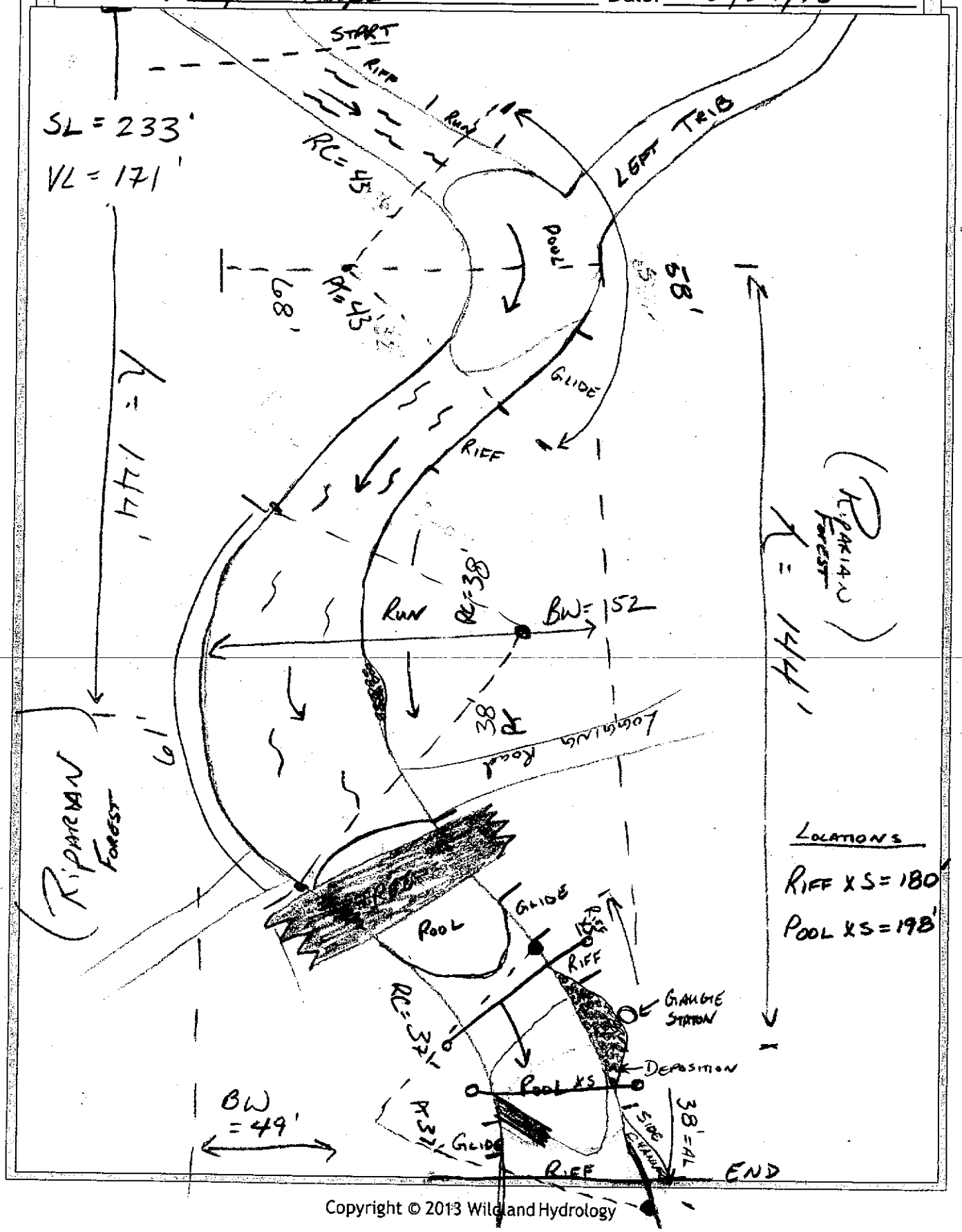
AREA-SITE LOCATION....REACH MAP

Stream: Sweet Run Reach: #3

Drawn By: Ryan Cooper Date: 3/27/18

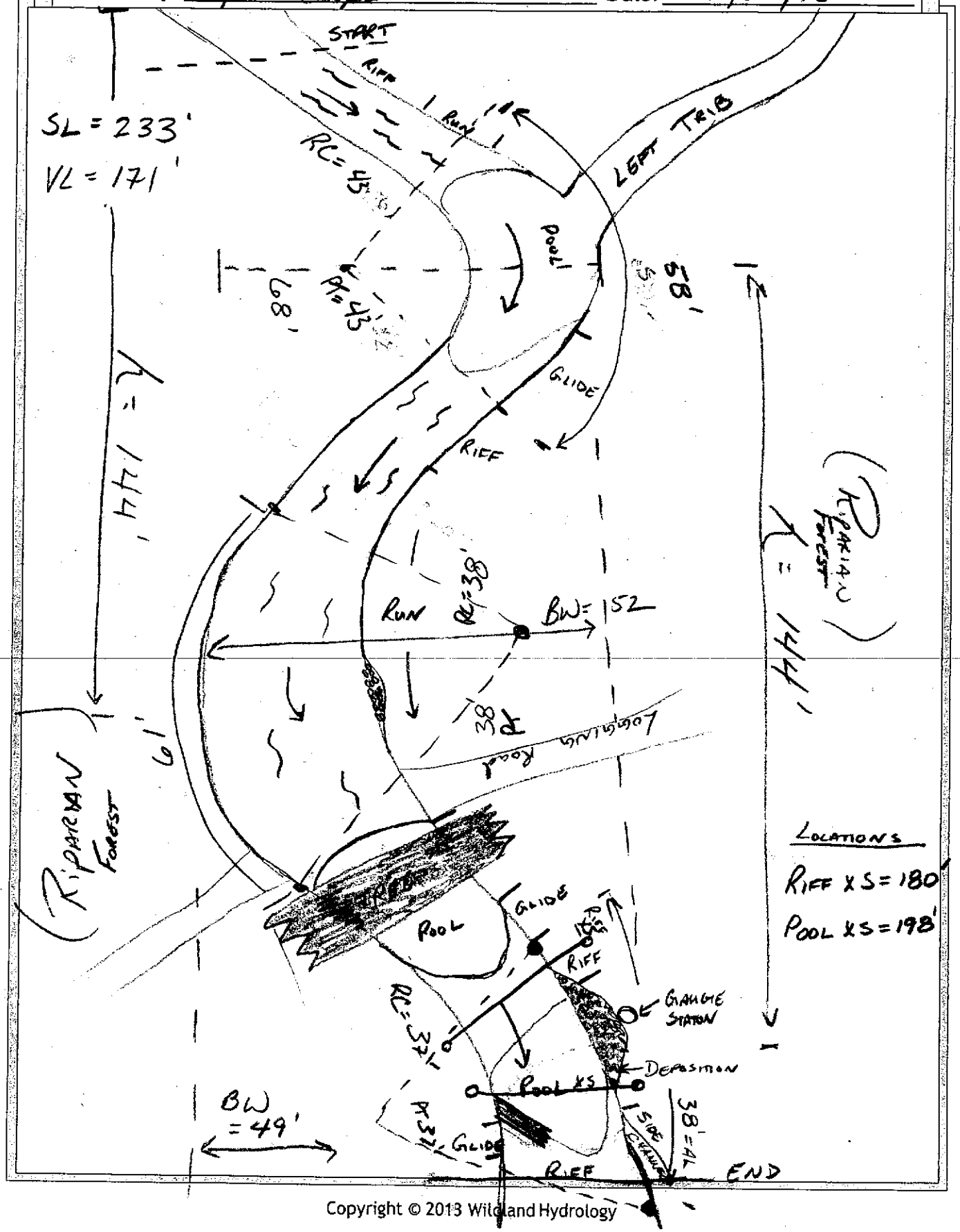


Copyright © 2013 Wildland Hydrology

AREA-SITE LOCATION....REACH MAP

Stream: Sweet Run Reach: #3

Drawn By: Ryan Cooper Date: 3/27/18



Copyright © 2013 Wildland Hydrology

SURVEY DATA → **CROSS - SECTION** 1

SITE: Station 3 **Date:**

Location: 198ft

Party / Notes: HUC:

Item	Distance, Point, or STATION (ft)	Back-Sight BS (ft)	Height of Instrument HI (ft)	Fore-Sight FS (ft)	Elevation (ft)	REMARKS / COMMENTS / NOTES
1	RBM	4.12	104.12			
2	LBM			7.11		
3	0.0			4.22		
4	6			5.15		
5	19			5.41		LTOB
6	22			6.20		top of sediment bar
7	24			6.10		
8	26			6.22		
9	28			6.82		
10	29			7.01		E water edge - LEW
11	32			7.92		
12	34			8.21		
13	35			8.02		
14	36			8.13		THW
15	37			8.09		
16	38			8.29		
17	39			8.18		
18	40			7.35		
19	41			1.04		KCW
20	41.8			4.56		
21	42			4.89		
22	44			4.63		
23	46			4.64		
24	RBM			4.25		
25						
26						
27						
28						

Copyright © 2013 Wildland Hydrology

180 ft

SURVEY DATA ⟶ **CROSS - SECTION 2**

SITE: Sweet Run 3 – Riffle **Date:**

Item	STATION ft	B S ft	H I ft	F S ft	Elevation ft	NOTES / COMMENTS / REMARKS
29	BM	4.29	104.29		100	
30	0			4.39		~~Pin~~
31	1			4.56		ground
32	6			5.52		
33	10			5.57		
34	15			5.40		
35	19			5.45		
36	21.5			5.92		
37	23			6.27		bankfull
38	23.5			6.4		
39	25			6.42		
40	26			6.74		
41	26.5			6.82		LEW LEW
42	27			7.2		
43	29			7.33		
44	32.5			7.51		
45	34.6			7.4		
46	36.8			7.48		Thal Weg Thg
47	38			7.5		Rt edge water
48	40.2			7.03		
49	41			6.64		
50	41.8			5.05		
51	42.6			4.74		end at Rt bank
52	BM	4.29				
53						
54						
55						
56						
57						
58						
59						

7.48
-6.27
1.21
× 2
2.42

7.48
-2.42
5.06

Copyright © 2013 Wildland Hydrology

SURVEY DATA ⟶ **LONGITUDINAL PROFILE 1**

SITE: Sweet Run 3 Date:

Location:

Party / Notes: HUC:

	Distance, Point, or	Back-Sight	Height of Instru-ment	Thalweg		Water Surface		Bankfull		Low Bank HI		NOTES
				Fore-Sight	Elevation	Fore-Sight	Elevation	Fore-Sight	Elevation	Fore-Sight	Elevation	e.g. Riffle Run Pool Glide
	STATION	BS	HI	FS	Elev.	FS	Elev.	FS	Elev.	FS	Elev.	
	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	
1	BM	5.67	105.67									
2	0			*7.35		6.55				4.67		top of riffle
3	12			7.06		6.64				5.34		mid riffle
4	29			7.59		7.06				4.70		top of run
5	38			7.73		7.15				5.18		mid run
6	51			8.16		7.37				4.96		top pool
7	55			9.07		7.38				4.57		mid pool
8	71			8.95		7.37		6.73		4.45		Bankfull
9	80			8.67		7.39				4.81		top glide
10	87			8.11		7.43				5.02		mid glide
11	93					7.47						top riffle
12	*TP1	7.01	*105.85	6.83								
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												

Copyright © 2013 Wildland Hydrology

SURVEY DATA ⟶ LONGITUDINAL PROFILE 2

SITE: Date:

Location:

Party / Notes: HUC:

25

75

	Distance, Point, or STATION ft	Back-Sight BS ft	Height of Instrument HI ft	Thalweg Fore-Sight FS ft	Thalweg Elevation Elev. ft	Water Surface Fore-Sight FS ft	Water Surface Elevation Elev. ft	Bankfull Fore-Sight FS ft	Bankfull Elevation Elev. ft	Low Bank HI Fore-Sight FS ft	Low Bank HI Elevation Elev. ft	NOTES e.g. Riffle Run Pool Glide
28	BM	5.67	105.67									
29	233			9.06		8.63				7.07		riffle
30	230			9.59		[redacted]	8.58			6.78		glide
31	221			10.09		8.61				6.67		glide
32	213			10.79		8.60				6.71		pool
33	205			10.23		8.58				6.70		pool
34	197			10.32		8.56				6.71		pool
35	193			9.84		8.59				6.67		glide
36	189			9.32		8.55				6.68		~~riffle~~ RUN
37	184			9.00		8.49				6.70		RUN
38	180			8.94		8.42		7.65		6.75		riffle
39	175			8.96		8.42				6.82		RUN
40	170			9.04		8.39				6.70		glide
41	167			9.36		8.37				6.70		glide
42	163			9.67		8.38				6.70		pool
43	160			9.28		8.37				6.71		pool
44	149			8.88		8.31				6.95		RUN
45	139			8.97		8.27				6.80		RUN
46	127			8.90		8.28				7.38		RUN
47	115			8.59		8.10				5.51		RIFFLE
48	109			8.57		7.96		6.94		5.[illegible]	5.12	BKFULL - riffle
49	99			8.14		7.80						riffle
50	93			8.0		7.47				5.82		riffle
51	88.5	7.01	105.85	6.83								
52												
53												
54												

TP-1

Copyright © 2013 Wildland Hydrology

SURVEY DATA ⟶ **LONGITUDINAL PROFILE 1**

SITE: NCTC upstream team Date:

Location:

Party / Notes: HUC:

	Distance, Point, or STATION ft	Back-Sight BS ft	Height of Instru-ment HI ft	Thalweg Fore-Sight FS ft	Thalweg Elevation Elev. ft	Water Surface Fore-Sight FS ft	Water Surface Elevation Elev. ft	Bankfull Fore-Sight FS ft	Bankfull Elevation Elev. ft	Low Bank HI Fore-Sight FS ft	Low Bank HI Elevation Elev. ft	NOTES e.g. Riffle Run Pool Glide
1	BM	7.65	107.65									
2	TP,	12.73	108.97	11.41	96.24							"S" on sewer
3	0			7.71		7.25				4.85		top of riffle
4	16			9.10		8.63				6.22		mid-riffle
5	24			9.67		9.25		8.27		6.83		bankfull call
6	30			10.14		9.74				7.38		top of run
7	33			10.34		9.96				7.50		mid run
8	36			10.59		10.10				7.67		top of pool
9	50			11.20		10.15				8.37		mid pool
10	60			12.00		11.51				9.20		top of glide
11	63			12.23		11.74				9.38		Mid glide
12	65			12.35		11.88				9.38		top riffle
13	66.7			12.44		11.98		10.97		9.55		bankfull
14	75			13.06		12.64				10.23		mid riffle
15	83.7			13.20		12.76		11.90		10.36		bankfull / top of run
16	88			13.56		13.10				10.64		mid run
17	91			13.72		13.33				10.88		top of pool
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												

Copyright © 2013 Wildland Hydrology

SURVEY DATA → **LONGITUDINAL PROFILE 1**

SITE: NCTC Sidewalk 2 Date: 3-26-18

Location: (Downstream

Party / Notes: HUC:

	Distance, Point, or	Back-Sight	Height of Instru-ment	Thalweg		Water Surface		Bankfull		Low Bank HI		NOTES e.g. Riffle Run Pool Glide	
				Fore-Sight	Elevation	Fore-Sight	Elevation	Fore-Sight	Elevation	Fore-Sight	Elevation		
	STATION	BS	HI	FS	Elev.	FS	Elev.	FS	Elev.	FS	Elev.		
	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft		
1	BM	7.65	107.65										
2	TP,	12.73	108.97	11.41	96.24								
3	196			20.51		20.01				17.63		TOP Riffle	TOR
4	192			20.21		19.79				17.40		Riffle	
5	189.7			20.19		19.67		18.69		17.24		TOP Glide	TOG
6	164			18.57		18.11		17.14		15.55		Pool	
7	156			18.37		17.86				15.40		Pool	MOP
8	137			16.82		16.42				13.93		Pool	
9	133			16.56		16.16				13.50		TOP Pool	
10	129			16.31		15.89				13.28		RUN	
11	125			15.97		15.57				13.05		TOP RUN	
12	118			15.64		15.22				12.75		Riffle	
13	113			15.34		14.95		13.91		12.45		TOP Riffle	
14	111			15.21		14.81				12.35		Glide	
15	109			15.07		14.62				12.15		Glide	
16	100			14.30		13.9				11.47		Pool	
17	91			13.71									
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													

Copyright © 2013 Wildland Hydrology

RIFFLE PEBBLE COUNT AND LARGEST PARTICLE ON BAR COUNT

STREAM:	**DATE:**
REACH:	**CREW:**
XS No.: Riffle	**Riffle Location (also mark on reach sketch):**

ft	PARTICLE	mm		Particle Count 10'	22'	34'	46'	58'	6	181' 7	197' 8	219' 9	228 10	TOTALS Tot #	% Cum
	Silt/Clay	< .062	S/C												
	Very Fine	.062 - .125	S												
	Fine	.125 - .25	A												
	Medium	.25 - .50	N												
	Coarse	.50 - 1.0	D												
	Vry Coarse	1.0 - 2	S												
	Very Fine	2 - 4													
	Fine	4 - 6	G												
	Fine	6 - 8	R												
	Medium	8 - 12	A												
	Medium	12 - 16	V												
	Coarse	16 - 24	E												
	Coarse	24 - 32	L												
	Vry Coarse	32 - 48	S												
	Vry Coarse	48 - 64													
0.21-0.31	Small	64 - 96	C												
0.31-0.42	Small	96 - 128	O												
0.42-0.63	Large	128 - 192	B												
0.63-0.84	Large	192 - 256	L												
0.84-1.26	Small	256 - 384	B												
1.26-1.68	Small	384 - 512	L												
1.68-3.36	Medium	512 - 1024	D												
3.36-6.72	Lrg	1024 - 2048	R												
6.72-13.43	Vry Lrg	2048-4096													
	Bedrock	>4096	BDRK												

LARGEST PARTICLES ON BAR

Bar Location (also mark on reach sketch):

Bar Length:
Bar Width (Thalweg - BF):
Sketch bar profile (Thalweg - BF)

Part. #	mm	Part. #	mm	Part. #	mm
1		6		11	
2		7		12	
3		8		13	
4		9		14	
5		10		15	

ROSGEN REPRESENTATIVE REACH PEBBLE COUNT

STREAM: Sweet Run 3 | **DATE:**

REACH: | **CREW:**

PARTICLE TALLY COUNTS BY TRANSECT

ft	PARTICLE	mm		32' 1 32'	50' 2 50'	62' 3 62'	85' 4	96' 5	161' 6	181' 7	197' 8	219' 9	228' 10	Tot Pool	Tot Riff	Comb Tot	%CUM
	Silt/Clay	< .062	S/C				•		•								
	Very Fine	.062 - .125	S														
	Fine	.125 - .25	A		•	•											
	Medium	.25 - .50	N				•		••								
	Coarse	.50 - 1.0	D			•	•		••								
	Vry Coarse	1.0 - 2	S			•			••								
	Very Fine	2 - 4															
	Fine	4 - 6	G			•											
	Fine	6 - 8	R		•	•	•										
	Medium	8 - 12	A			•			•								
	Medium	12 - 16	V	•						•							
	Coarse	16 - 24	E	•	•	•	••	•	•	•							
	Coarse	24 - 32	L	•	•												
	Vry Coarse	32 - 48	S	•	•		•	•		•							
	Vry Coarse	48 - 64								••							
0.21-0.31	Small	64 - 96	C	•		••				••							
0.31-0.42	Small	96 - 128	O		•			•									
0.42-0.63	Large	128 - 192	B	••				••	••	•							
0.63-0.84	Large	192 - 256	L					•									
0.84-1.26	Small	256 - 384	B	•	••		•	••									
1.26-1.68	Small	384 - 512	L														
1.68-3.36	Medium	512 - 1024	D		•		•										
3.36-6.72	Lrg	1024 - 2048	R														
6.72-13.43	Vry Lrg	2048-4096															
	Bedrock	>4096	BDRK														

FEATURE SAMPLED

	Length	Proportion	No. Units	Sampled
REACH				
POOL				
RIFFLE				
RUN				

Transect	Feature	Length	Width
1	NP		11.2
2	NP		
3	P		
4	NP		
5	NP		
6	P		
7	NP		
8	P		
9	P		
10	NP		

Riffle #2

Riffle Stability Index

Material	Size Range (mm)		Pebble Counts	% in Class	Cumulative
silt/clay	0	0.062			
very fine sand	0.062	0.13			
fine sand	0.13	0.25			
medium sand	0.25	0.5			
coarse sand	0.5	1			
very coarse sand	1	2			
very fine gravel	2	4			
fine gravel	4	6			
fine gravel	6	8			
medium gravel	8	11			
medium gravel	11	16			
coarse gravel	16	22			
coarse gravel	22	32			
very coarse gravel	32	45			
very coarse gravel	45	64			
small cobble	64	90			
medium cobble	90	128			
large cobble	128	180			
very large cobble	180	256			
small boulder	256	362			
small boulder	362	512			
medium boulder	512	1024			
large boulder	1024	2048			
very large boulder	2048	4096			

Total Particles =

Enter intermediate diameters (mm) of 10 – 30 particles on bar:

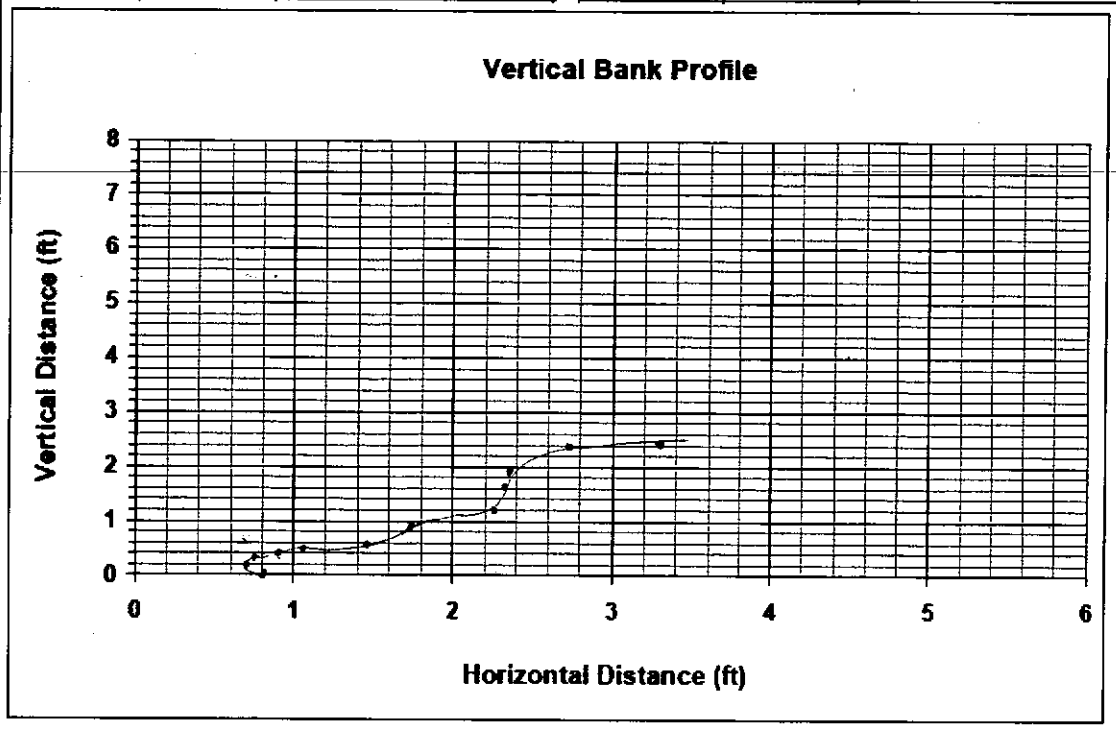
1	28	11	17	21	
2	21	12	13	22	
3	20	13	16	23	
4	19	14	11	24	
5	20	15	15	25	
6	18	16		26	
7	32	17		27	
8	20	18		28	
9	21	19		29	
10	16	20		30	

Geometric Mean Grain Size (mm) =

Worksheet 6-2. Bank profile and bank erosion summary data form.

Stream: Sweet run	Observers:
Location:	Date:
Cross-section:	BEHI adjective:
Bank:	NBS adjective:
Toe pin station (ft): 178'	Predicted erosion (ft):
Toe pin elevation (ft):	Measured erosion (ft):

Date:			Date:		
0.81	0	Rock in Bank			
0.72	0.1				
0.76	0.3				
0.90	0.4				
1.05	0.5				
1.45	0.55				
1.76	0.91				
2.25	1.2				
2.34	1.65				
2.27	1.89				
2.78	2.4				
3.33	2.43				

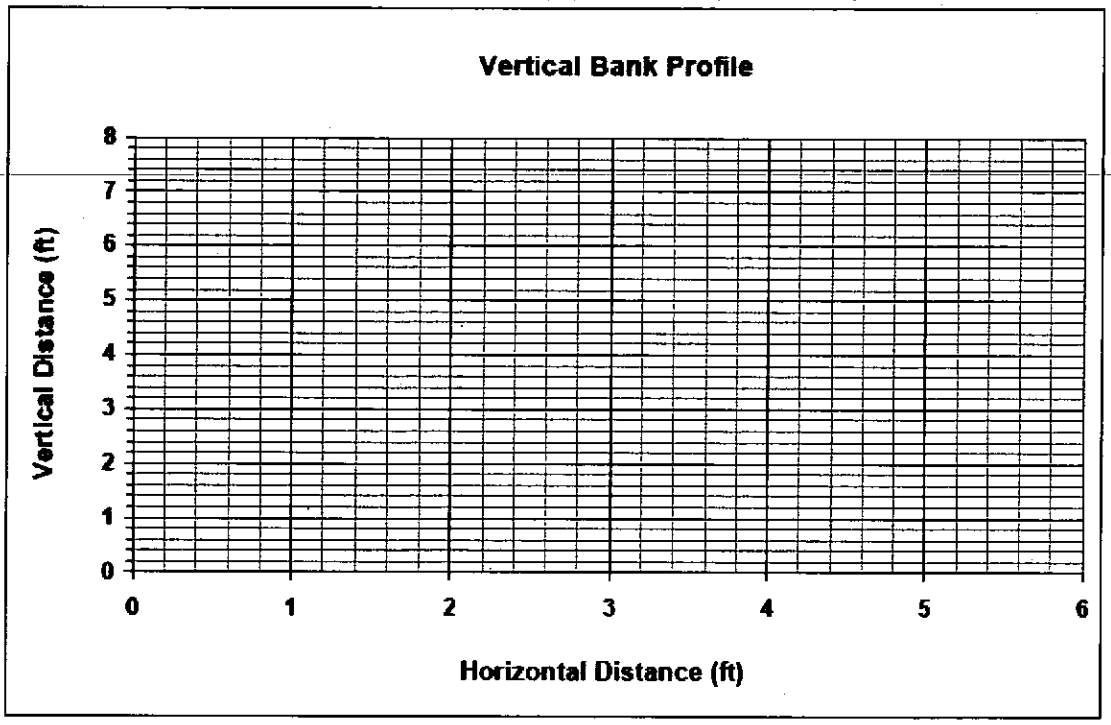


overhang

Worksheet 6-2. Bank profile and bank erosion summary data form.

Stream:	Observers:
Location:	Date:
Cross-section:	BEHI adjective:
Bank:	NBS adjective:
Toe pin station (ft):	Predicted erosion (ft):
Toe pin elevation (ft):	Measured erosion (ft):

Date:			Date:		
3.50	21.30		3.45	3.95	
2.9	2.01				
2.76	3.01				
3.0	3.1				
.54	0				
.87	.4				
1.6	.5				
2.57	.95				
3.35	1.4				
3.65	1.7				
2.95	2.4				
3.22	2.63				
3.21	2.9				
3.2	2.03				
2.8	3.66				



Field Data Sheet for Discharge Measurements

Stream Discharge Measurement Sheet

Site ID #: Sweet Run - 3
Name and Location: Upstream
Date: 3/29/18 Crew: TEAM 3

County:
Weather:
Cross-section Location: 44.0'
Meter:

WW = 10.0'

Station'	Width'	Depth'	Area (Width x Depth)	Run Length	Secs	Velocity (fs)	Average Velocity Use with 2pt method (0.2+0.8)/2	Discharge (cfs) (Area x Velocity)
0.25	0.5	0.25	0.125			~~-0.240~~		0
.75		0.5	.25			0.29		.072
1.25		0.5	.25			1.27		.32
1.75		0.5	.25			1.01		.25
2.25		0.7	.35			0.71		.25
2.75		0.7	.35			1.07		.37
3.25		0.7	.35			0.88		.31
3.75		0.7	.35			0.61		.21
4.25		0.6	.3			0.48		.14
4.75		0.5	.25			0.53		.13
5.25		0.5	.25			0.51		.13
5.75		0.6	.3			0.73		.22
6.25		0.5	.25			0.5		.125
6.75		0.5	.25			0.46		.115
7.25		0.5	.25			0.28		.07
7.75		0.4	.2			0.58		.116
8.25		0.4	.2			0.7		.14
8.75		0.3	.15			0.39		.058
9.25		0.2	.1			0.0		0
9.75		0.1	.05			0.0		0

Total Discharge: 3.026 CFS (oMeasured, o Estimated)

Comments:

READINGS WERE TAKEN @ LONG PRO STATION 44.0'. WETTED WIDTH = 10.0'
20 READINGS TAKEN EVERY 0.5' STARTING @ 0.25' on TAPE.

Field Data Sheet for Discharge Measurements

Stream Discharge Measurement Sheet

wetted width = 10.3 ft

Site ID #: _____
Name and Location: _____
Date: 3/26/18 Crew: _____

County: _____
Weather: _____
Cross-section Location: 118 ft (in a run)
Meter: _____

Station	Width	Depth	Area (Width x Depth)	Run Length	Secs	Velocity (fs)	Average Velocity Use with 2pt method (0.2+0.8)/2	Discharge (cfs) (Area x Velocity)
.7	.8	.7	.56			0		0
1.5	.8	.75	.6			.49		.294
2.3	.8	.8	.64			.60		.384
3.1	.8	.6	.48			.55		.264
3.9	.8	.85	.68			.74		.503
4.7	.8	.7	.56			.23		.129
5.5	.8	.8	.64			.24		.154
6.3	.8	.8	.64			.45		.288
7.1	.8	.6	.48			.51		.245
7.9	.8	.65	.52			.68		.354
8.7	.8	.6	.48			.8		.384
9.5	.8	.5	.4			1.11		.444
10.3	.8	.45	.36			.98		.353

Total Discharge: 3.792 CFS (oMeasured, o Estimated)

Comments:

A, P
~~111~~ / 111
11

	Transect location (feet)	Wetted Width	Velocity (ft/sec)	Depth ~~(in)~~ ft	Substrate	Embedded	Mesohabitat Type (riffle, run, pool, glide)	Instream Cover	Bank angle L 20° R 90°	Canopy Cover	Rip density L	Rip density R	Stem density	Basal area
(Pool)	3.0	12'	0.63	0.7'						30%	15/17 88%	14/17 82%	9 stems	110 sq ft/Ac.
(Pool)	6.0	12'	0.46	1.4'										
(Pool)	9.0	12'	0.0	1.3										
									15° 65°	60%	16/17 94%	14/17 82%	12 stems	100 sqft/Ac.
Riffle	3.75	14'	0.8											
	7.5	14'	1.43											
	11.25	14'	0.53											

Riffle

5 pool

12/33e

Worksheet A-1. Field Form for Level II Stream Classification.

Stream: Sweet Run - 3			
Basin:	Drainage Area:	acres	mi^2
Location:			
Twp.&Rge:	Sec.&Qtr.:		
Cross-Section Monuments (Lat./Long.):		Date:	
Observers:		Valley Type:	

Bankfull WIDTH (W_{bkf}) WIDTH of the stream channel at bankfull stage elevation, in a riffle section.	18.2	ft
Bankfull DEPTH (d_{bkf}) Mean DEPTH of the stream channel cross-section, at bankfull stage elevation, in a riffle section ($d_{bkf} = A_{bkf} / W_{bkf}$).	0.9	ft
Bankfull X-Section AREA (A_{bkf}) AREA of the stream channel cross-section, at bankfull stage elevation, in a riffle section.	16.4	ft^2
Width/Depth Ratio (W_{bkf} / d_{bkf}) Bankfull WIDTH divided by bankfull mean DEPTH, in a riffle section.	20.2	ft/ft
Maximum DEPTH (d_{max}) Maximum depth of the bankfull channel cross-section, or distance between the bankfull stage and Thalweg elevations, in a riffle section.	1.2	ft
WIDTH of Flood-Prone Area (W_{fpa}) Twice maximum DEPTH, or ($2 \times d_{mbkf}$) = the stage/elevation at which flood-prone area WIDTH is determined in a riffle section.	38.4	ft
Entrenchment Ratio (ER) The ratio of flood-prone area WIDTH divided by bankfull channel WIDTH (W_{fpa} / W_{bkf}) (riffle section).	2.1	ft/ft
Channel Materials (Particle Size Index) D_{50} The D_{50} particle size index represents the median or dominant diameter of channel materials, as sampled proportionately from the channel surface, between the bankfull stage and Thalweg elevations.	23	mm
Water Surface SLOPE (S) Channel slope = "rise over run" for a reach approximately 20–30 bankfull channel widths in length, with the "riffle-to-riffle" water surface slope representing the gradient at bankfull stage.	0.89%	ft/ft
Channel SINUOSITY (k) Sinuosity is an index of channel pattern, determined from a ratio of stream length divided by valley length (SL / VL); or estimated from a ratio of valley slope divided by channel slope (S_{val} / S).	1.36	

Stream Type C4 **See Classification Key (Figure A-2)**

Copyright © 2015 Wildland Hydrology

Worksheet A-1. Field Form for Level II Stream Classification.

Stream:			
Basin:	Drainage Area:	acres	mi^2
Location:			
Twp.&Rge:	Sec.&Qtr.:		
Cross-Section Monuments (Lat./Long.):		Date:	
Observers:		Valley Type:	

Bankfull WIDTH (W_{bkf}) WIDTH of the stream channel at bankfull stage elevation, in a riffle section.	18.2	ft
Bankfull DEPTH (d_{bkf}) Mean DEPTH of the stream channel cross-section, at bankfull stage elevation, in a riffle section ($d_{bkf} = A_{bkf} / W_{bkf}$).	0.9	ft
Bankfull X-Section AREA (A_{bkf}) AREA of the stream channel cross-section, at bankfull stage elevation, in a riffle section.	16.4	ft^2
Width/Depth Ratio (W_{bkf} / d_{bkf}) Bankfull WIDTH divided by bankfull mean DEPTH, in a riffle section.	20.2	ft/ft
Maximum DEPTH (d_{max}) Maximum depth of the bankfull channel cross-section, or distance between the bankfull stage and Thalweg elevations, in a riffle section.	1.2	ft
WIDTH of Flood-Prone Area (W_{fpa}) Twice maximum DEPTH, or (2 x d_{mbkf}) = the stage/elevation at which flood-prone area WIDTH is determined in a riffle section.	38.4	ft
Entrenchment Ratio (ER) The ratio of flood-prone area WIDTH divided by bankfull channel WIDTH (W_{fpa} / W_{bkf}) (riffle section).	2.1	ft/ft
Channel Materials (Particle Size Index) D_{50} The D_{50} particle size index represents the median or dominant diameter of channel materials, as sampled proportionately from the channel surface, between the bankfull stage and Thalweg elevations.	25	mm
Water Surface SLOPE (S) Channel slope = "rise over run" for a reach approximately 20–30 bankfull channel widths in length, with the "riffle-to-riffle" water surface slope representing the gradient at bankfull stage.	0.009	ft/ft
Channel SINUOSITY (k) Sinuosity is an index of channel pattern, determined from a ratio of stream length divided by valley length (SL / VL); or estimated from a ratio of valley slope divided by channel slope (S_{val} / S).	1.36	

Stream Type C4 **See Classification Key (Figure A-2)**

Copyright © 2015 Wildland Hydrology

Worksheet 26. Bar sample form

Point / Side BAR-BULK MATERIALS SAMPLE DATA: Size Distribution Analysis

Party:

Location:

Date:

Notes:

SUB SAMPLES	Sieve SIZE 63		Sieve SIZE 31.5		Sieve SIZE 16		Sieve SIZE 8		Sieve SIZE 4		Sieve SIZE 2		Sieve SIZE Tray		Sieve SIZE		Sieve SIZE	
	Tare Weight 1750		Tare Weight 1650		Tare Weight 1700		Tare Weight 1600		Tare Weight 1550		Tare Weight 1400		Tare Weight 900		Tare Weight		Tare Weight	
	Sample Weights		Sample Weights		Sample Weights		Sample Weights		Sample Weights		Sample Weights		Sample Weights		Sample Weights		Sample Weights	
	Total	Net	Total	Net	Total	Net	Total	Net	Total	Net	Total	Net	Total	Net	Total	Net	Total	Net
1					1800	100	2050	450	2150	600	2175	775						
2					1775	75	1750	150	1850	300	1750	350						
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Net Wt. Total						175		600		900		1125						
% Grand Tot.																		
Accum. % =<																		

SURFACE MATERIALS DATA
(Two Largest Particles)

No.	Dia.	WT. g
1	41	95
2	20	10

Bucket + Materials Weight 9500 g

Bucket Tare Weight 1050

Materials Weight 8450

(Materials less than: 2 mm.)

Be Sure to Add Separate Material Weights to Grand Total

GRAND TOTAL SAMPLE WEIGHT

NOTES

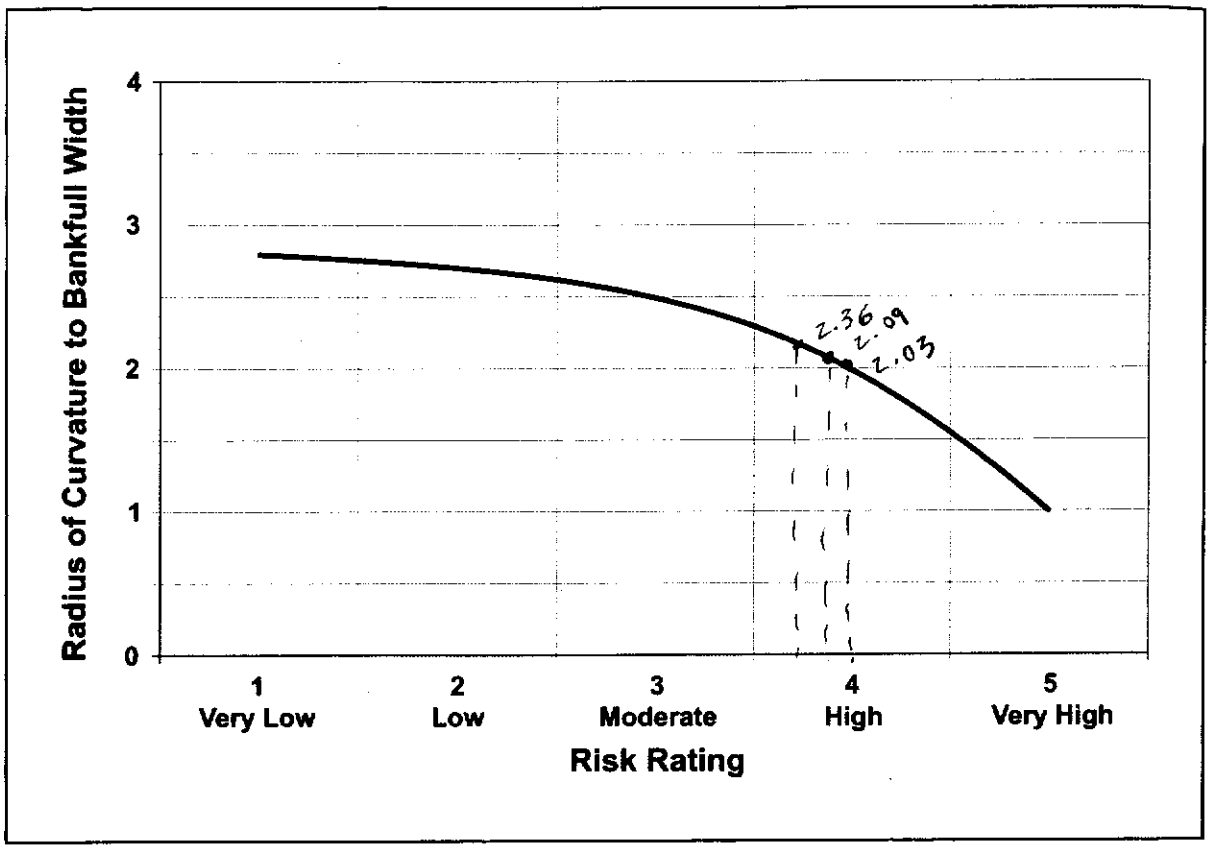


Figure 7-18 (Figure 4-20). Streambank erosion risk based on radius of curvature divided by width.

Table 7-20. Radius of curvature divided by width risk rating summary for the Wolf Creek Watershed.

Radius of Curvature Divided by Width Risk Rating using Figure 7-18 (Figure 4-20)		
Reach I.D.	**Radius of Curvature Divided by Bankfull Width**	**Risk Rating**
A3	> 3.0	VL (1)
C4 Upper	2.5	M (3)
C4 Lower	1.8	H (4)
D4	1.3	VH (5)
E3	2.7	L (2)

SURVEY DATA → LONGITUDINAL PROFILE 1

SITE: NCTC upstream team Date:

Location:

Party / Notes: HUC:

	Distance, Point, or STATION (ft)	Back-Sight BS (ft)	Height of Instrument HI (ft)	Thalweg Fore-Sight FS (ft)	Thalweg Elevation Elev. (ft)	Water Surface Fore-Sight FS (ft)	Water Surface Elevation Elev. (ft)	Bankfull Fore-Sight FS (ft)	Bankfull Elevation Elev. (ft)	Low Bank HI Fore-Sight FS (ft)	Low Bank HI Elevation Elev. (ft)	NOTES e.g. Riffle Run Pool Glide
1	BM	7.65	107.65									
2	TP,	12.73	108.97	11.41	96.24							"5" on sewer
3	0			7.71		7.25				4.85		top of riffle
4	16			9.10		8.63				6.22		mid-riffle
5	24			9.67		9.25		8.27		6.83		bankfull call
6	30			10.14		9.74				7.38		top of run
7	33			10.34		9.96				7.50		mid run
8	36			10.59		10.10				7.67		top of pool
9	50			11.20		10.15				8.37		mid pool
10	60			12.00		11.51				9.20		top of glide
11	63			12.23		11.74				9.38		Mid glide
12	65			12.35		11.88				9.38		top riffle
13	66.7			12.44		11.98		10.97		9.55		bankfull
14	75			13.06		12.64				10.23		mid riffle
15	83.7			13.20		12.76		11.90		10.36		bankfull / top of run
16	88			13.56		13.10				10.64		mid run
17	91			13.72		13.33				10.88		top of pool
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												

Copyright © 2013 Wildland Hydrology

SURVEY DATA → LONGITUDINAL PROFILE 1

SITE: NCTC Sidewalk 2 Date: 3-26-18

Location: (Downstream

Party / Notes: HUC:

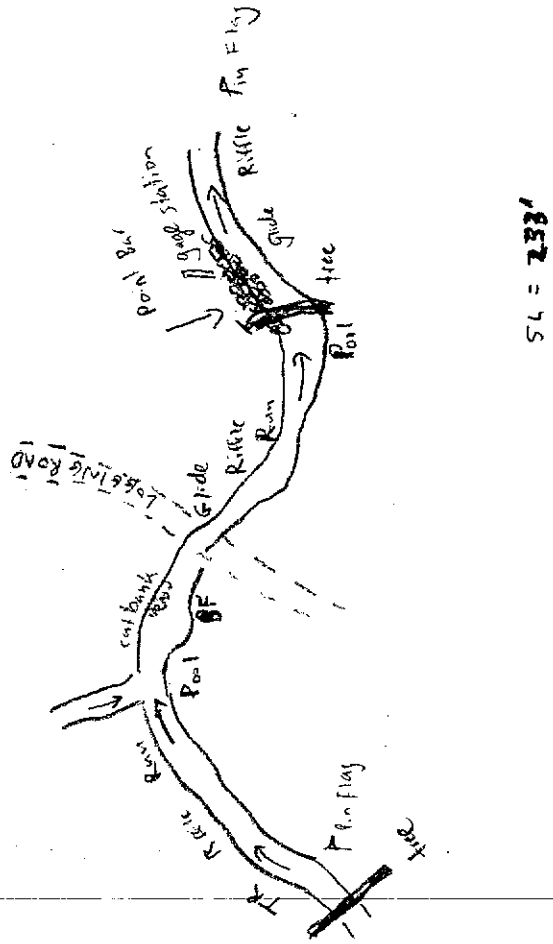
	Distance, Point, or STATION ft	Back-Sight BS ft	Height of Instrument HI ft	Thalweg Fore-Sight FS ft	Thalweg Elevation Elev. ft	Water Surface Fore-Sight FS ft	Water Surface Elevation Elev. ft	Bankfull Fore-Sight FS ft	Bankfull Elevation Elev. ft	Low Bank HI Fore-Sight FS ft	Low Bank HI Elevation Elev. ft	NOTES e.g. Riffle Run Pool Glide	
1	BM	7.65	107.65										
2	TP,	12.73	108.97	11.41	96.24								
3	196			20.51		20.01				17.63		TOP Riffle	TOR
4	192			20.21		19.79				17.40		Riffle	
5	189.7			20.19		19.67		18.69		17.24		TOP Glide	TOG
6	164			18.57		18.11		17.14		15.55		Pool	
7	156			18.37		17.86				15.40		Pool	MOP
8	137			16.82		16.42				13.93		Pool	
9	133			16.56		16.16				13.50		TOP Pool	
10	129			16.31		15.89				13.28		RUN	
11	125			15.97		15.57				13.05		TOP RUN	
12	118			15.64		15.22				12.75		Riffle	
13	113			15.34		14.95		13.91		12.45		TOP Riffle	
14	111			15.21		14.81				12.35		Glide	
15	109			15.07		14.62				12.15		Glide	
16	100			14.30		13.9				11.47		Pool	
17	91			13.71									
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													

Copyright © 2013 Wildland Hydrology

AREA-SITE LOCATION....REACH MAP

Stream: Sweet Run Reach: 3

Drawn By: AJR Date: 3-27-18



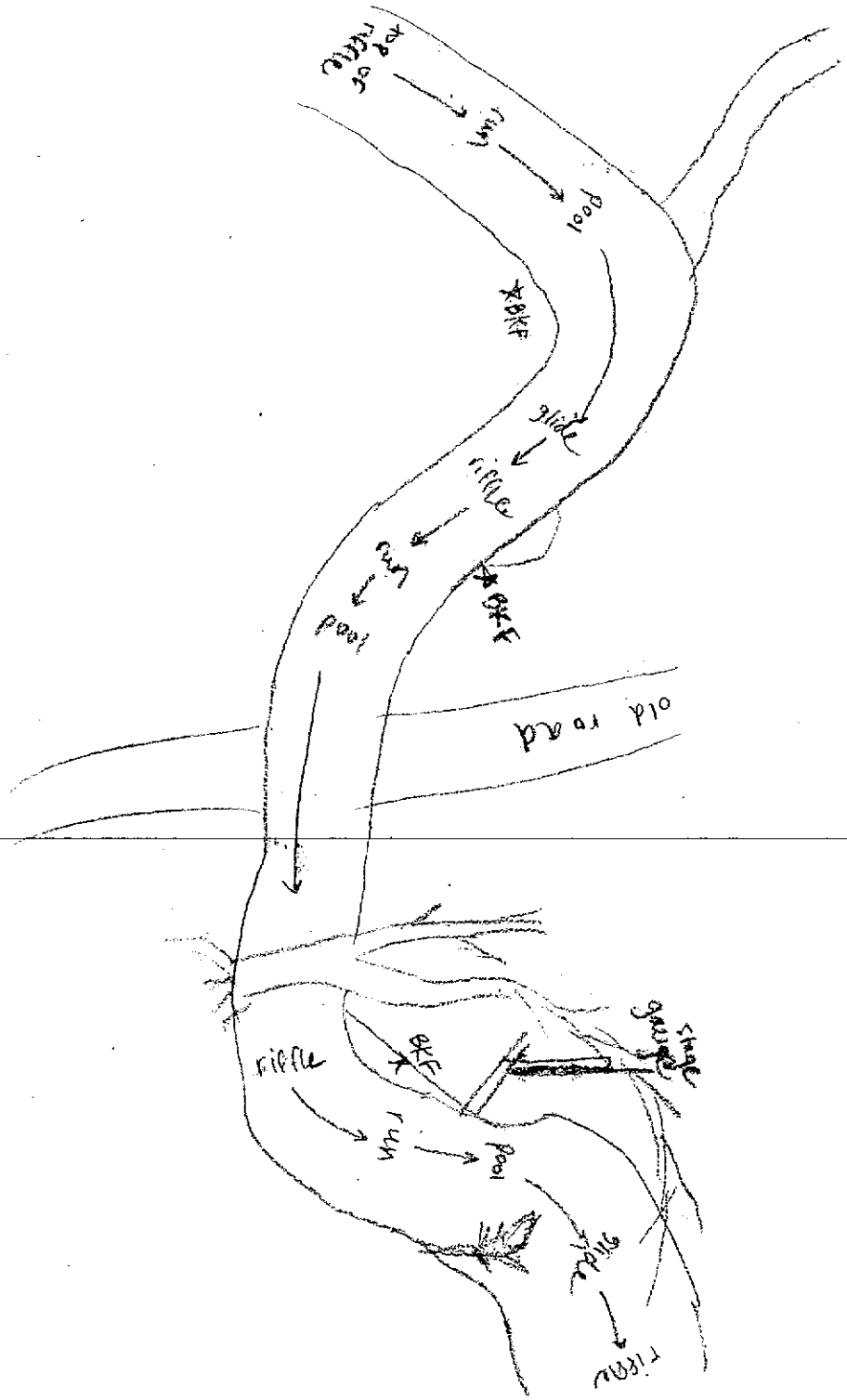
SL = 233'

Copyright © 2013 Wildland Hydrology

AREA-SITE LOCATION....REACH MAP

Stream: Sweet Run Reach: #3

Drawn By: Kathryn Mayberry Date: 3/27/18



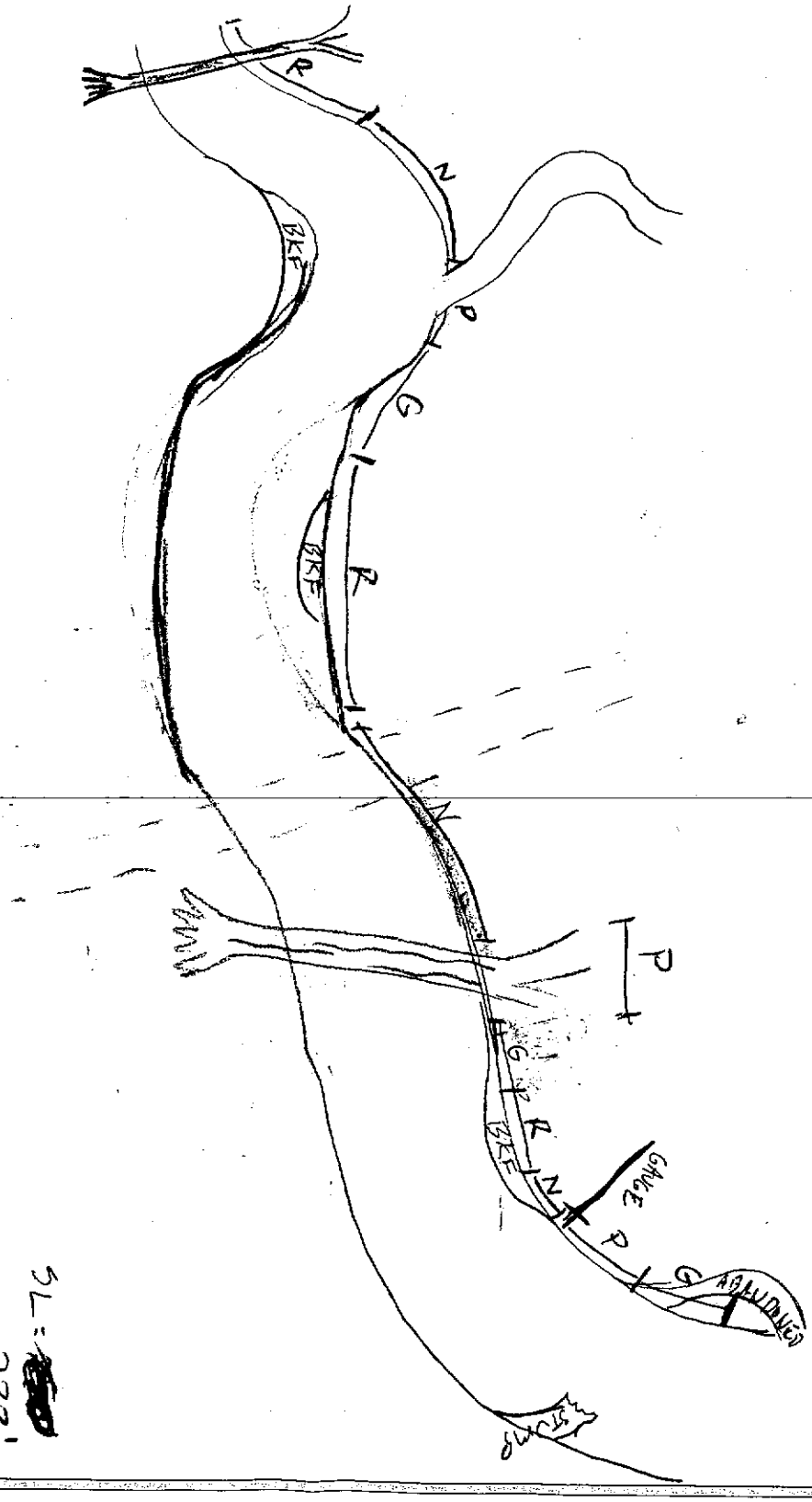
Stream length = 233 ft

Copyright © 2013 Wildland Hydrology

AREA-SITE LOCATION....REACH MAP

Stream: SWEET RUN Reach: #3

Drawn By: BSE Date: 03-27-18

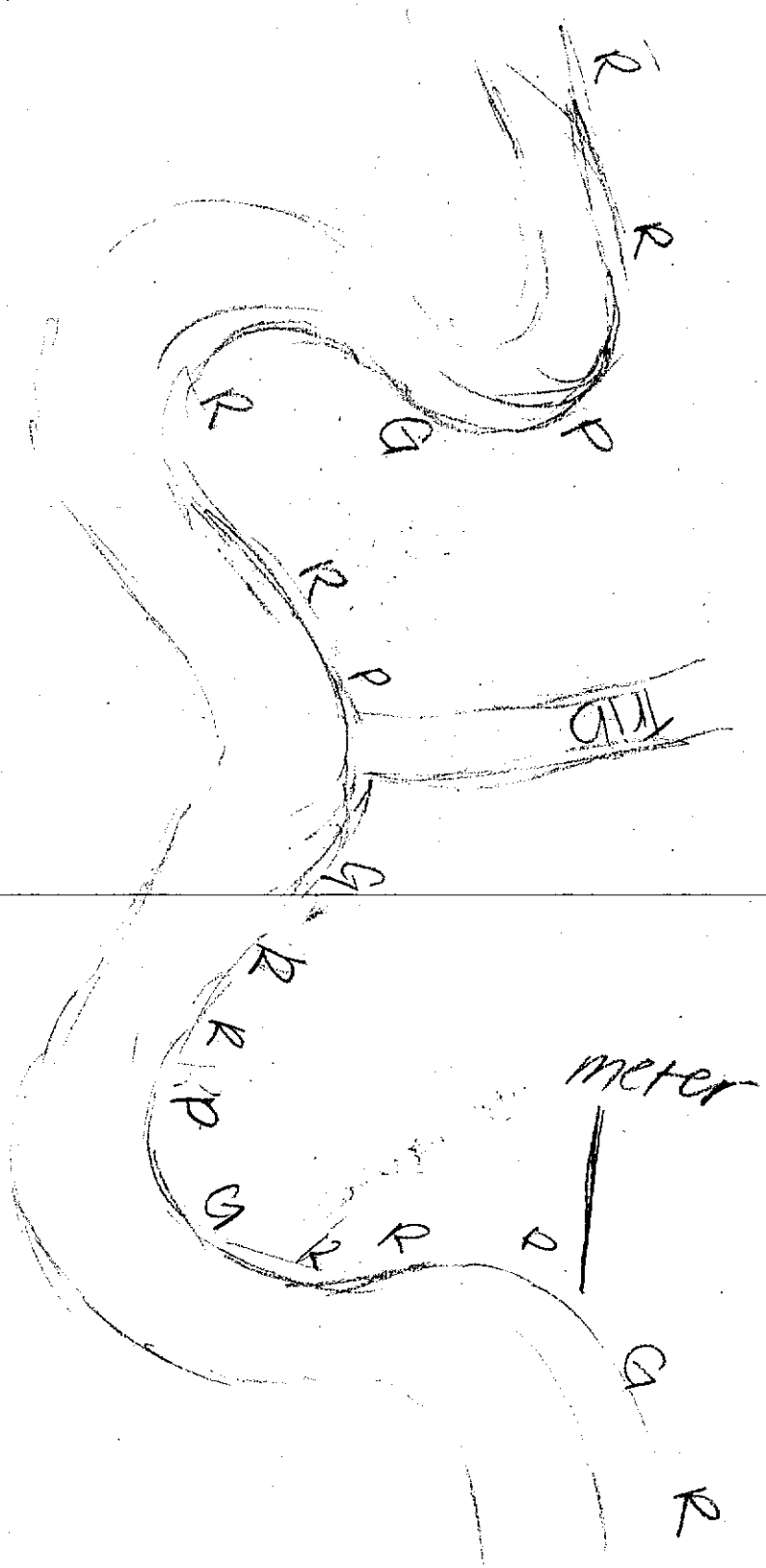


Copyright © 2013 Wildland Hydrology

AREA-SITE LOCATION....REACH MAP

Stream: Sweet Run Reach: 3

Drawn By: Kaitlyn Parness Date:



Copyright © 2013 Wildland Hydrology