STREAM 2-29

Date: 2/8/19	Project/Site: 1277 Revolution Latitude:			
Evaluator: TYDICP	County: Bee	wer	Longitude:	
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30*	Stream Determin	am Determination (circle one) emeral intermittent Perennial e.g. Quad Name:		
1		· / /		
A. Geomorphology (Subtotal =)2.5)	Absent	Weak	Moderate	Strong
1 ^a Continuity of channel bed and bank	0		2	3
2. Sinuosity of channel along thalweg	0		2	3
3. In-channel structure: ex. riffle-pool, step-pool; ripple-pool sequence	0	1	2	3
4. Particle size of stream substrate	0	1	(2)	3
5. Active/relict floodplain	0	Ó	2	3
6. Depositional bars or benches	0	Ci l	2	3
7. Recent alluvial deposits	0	(1)	2	3
8. Headcuts	0	20	2	3
9. Grade control	0	PILLES .	2	
10. Natural valley	0	0.5>		1.5
11. Second or greater order channel		0.5		1.5
artificial ditches are not rated; see discussions in manual		=0	Yes =	= 3
B. Hydrology (Subtotal = 3)				
			~	
12. Presence of Baseflow	0	1	Q	3
13. Iron oxidizing bacteria	(0)	1	2	3
14. Leaf litter	1.5	\odot	0.5	0
15. Sediment on plants or debris	40	0.5	1	1.5
16. Organic debris lines or piles	0	0.5	1	1.5
17. Soil-based evidence of high water table?	(No	=0	Yes = 3	
C. Biology (Subtotal = (0.5)				
18. Fibrous roots in streambed	3	$\langle 2 \rangle$	1	0
10 Dected upland plants is streamhad		2	1	0
19. Rooted upland plants in streambed		1	2	3
20. Macrobenthos (note diversity and abundance)			۲ ۲	3 1
20. Macrobenthos (note diversity and abundance) 21. Aquatic Mollusks		1	2	
20. Macrobenthos (note diversity and abundance)		105		3
20. Macrobenthos (note diversity and abundance) 21. Aquatic Mollusks		1	2 1	3 1.5
20. Macrobenthos (note diversity and abundance) 21. Aquatic Mollusks 22. Fish		1 0.5	2 1 1	3 1.5 1.5
20. Macrobenthos (note diversity and abundance) 21. Aquatic Mollusks 22. Fish 23. Crayfish 24. Amphibians 25. Algae		1 0.5 0.5	2 1 1 1 1	3 1.5 1.5 1.5
20. Macrobenthos (note diversity and abundance) 21. Aquatic Mollusks 22. Fish 23. Crayfish 24. Amphibians		1 0.5 0.5 0.5 0.5 0.5	$\begin{array}{c} 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{array}$	3 1.5 1.5 1.5 1.5 1.5
20. Macrobenthos (note diversity and abundance) 21. Aquatic Mollusks 22. Fish 23. Crayfish 24. Amphibians 25. Algae		1 0.5 0.5 0.5 0.5 FACW = 0.75; ØBI	$\begin{array}{c} 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{array}$	3 1.5 1.5 1.5 1.5 1.5

9-43.1

Date: 2/9/18	Project/Site: 1277 Revolution Latitude:				
Evaluator: TULER RUSSEU	County: BUTLER Longitude:				
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30* Stream is at least intermittent	Stream Determination (circle one) Other Ephemeral Intermittent Perennial e.g. Quad I			9-43,1 Name:	
A. Geomorphology (Subtotal = 5)	Absent	Weak	Moderate	Strong	
1 ^a Continuity of channel bed and bank	0	$\hat{\mathbf{n}}$	2	3	
2. Sinuosity of channel along thalweg	0	1	Ð	3	
3. In-channel structure: ex. riffle-pool, step-pool,		1	2	3	
ripple-pool sequence	Ø				
4. Particle size of stream substrate	0	$(\tilde{\mathbf{T}})$	2	3	
5. Active/relict floodplain	\bigcirc	Ŷ	2	3	
6. Depositional bars or benches	(0)	1	2	3	
7. Recent alluvial deposits	(0)	1	2	3	
8. Headcuts	(0)	1	2	3	
9. Grade control	R	0.5*	0	1.5	
10. Natural valley		0.5	Ŷ	1.5	
11. Second or greater order channel		0=0	Yes	= 3	
^a artificial ditches are not rated; see discussions in manual					
B. Hydrology (Subtotal =)					
12. Presence of Baseflow	\bigcirc	1	2	3	
		1	2	3	
13. Iron oxidizing bacteria	1.5	1	0.5	0	
14. Leaf litter	0	0.5	0.5	1.5	
15. Sediment on plants or debris	0	(0.5)	1	1.5	
16. Organic debris lines or piles 17. Soil-based evidence of high water table?			Yes = 3		
			105	•	
C. Biology (Subtotal = 2.75)	3	2	Ð	0	
18. Fibrous roots in streambed	3	2 2	(†)	0	
19. Rooted upland plants in streambed	Q	1	2	3	
20. Macrobenthos (note diversity and abundance)	8	- 1	2	3	
21. Aquatic Mollusks		0.5	1	1.5	
22. Fish		0.5	1		
23. Crayfish	8			1.5	
24. Amphibians	Ø	0.5	1	1.5	
25. Algae	0	0.5		1.5	
26. Wetland plants in streambed	Charles and a los	FACW = 0.75 OB	L = 1.5 Other = 0		
*perennial streams may also be identified using other methods				014.	
Notes: STREAM BED HIGHLY VEGE AND SOME PHALARISA		MH "SOME	upunno	> plant	
Sketch: N WHE S Val		ap			
Lau FLON					

STREAM 9-102

Date: 2/8/19	Project/Site: 1	277 Revolution	Latitude:		
Evaluator: Tyler Russel, Kyle Rices	County: BEAVER		Longitude:		
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30* 20.5	Stream Determination (circle one) Ephemeral (intermittent) Perennial		Other 97/02 e.g. Quad Name:		
A. Geomorphology (Subtotal = 11)	Absent	Weak	Moderate	Strong	
1ª Continuity of channel bed and bank	0	(1)	2	3	
2. Sinuosity of channel along thalweg	0	1	2	3	
3. In-channel structure: ex. riffle-pool, step-pool,	0		2	• 3	
ripple-pool sequence		(1)	•		
4. Particle size of stream substrate	0	1	(2)	3	
5. Active/relict floodplain	0	()	2	3	
6. Depositional bars or benches	0	Q	2	3	
7. Recent alluvial deposits	0	(1)	2	3	
8. Headcuts	0	(1)	2	3	
9. Grade control	0	0.5	1	1.5	
10. Natural valley	0	0.5	1	1.5	
11. Second or greater order channel	(N	o = 0)	Yes	= 3	
^a artificial ditches are not rated; see discussions in manual					
B. Hydrology (Subtotal = 4-)	- 1 · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · ·	
12. Presence of Baseflow	0	1	$\overline{2}$	3	
13. Iron oxidizing bacteria	0	1	2	3	
14. Leaf litter	1.5	$\widehat{\mathbf{T}}$	0.5	0	
15. Sediment on plants or debris	0	0.5	1	1.5	
16. Organic debris lines or piles	0)	(0.5)	1	1.5	
17. Soil-based evidence of high water table?	(No=0) Yes=3			= 3	
C. Biology (Subtotal = 5.5)					
18. Fibrous roots in streambed	3	0	0	0	
19. Rooted upland plants in streambed	3		1	0	
20. Macrobenthos (note diversity and abundance)	(Q)	1	2	3	
21. Aquatic Mollusks	Ø	1	2	3	
22. Fish	0	0.5	1	1.5	
23. Crayfish	Ø	0.5	1	1.5	
24. Amphibians	Q	0.5	1	1.5	
25. Algae		0.5	1	1.5	
26. Wetland plants in streambed		FACW = 0.75; OB	L = 1.5 Other = 1		
*perennial streams may also be identified using other method	s. See p. 35 of manu				
Notes:					
Sketch:	1 4 - 102				
		ruse ff Site			

STREAM 10-3

Date: 2/10/19	Project/Site: 1277 Revolution		Latitude:	
Evaluator: S. Denham	County: Butler		Longitude:	
Total Points:Stream is at least intermittentif \geq 19 or perennial if \geq 30*	Stream Determ Ephemeral Inte	ination (circle one) ermittent Perennial	Other e.g. Quad Name:	
A. Geomorphology (Subtotal = 16.5)	Absent	Weak	Moderate	Strong
1 ^a Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
3. In-channel structure: ex. riffle-pool, step-pool,	0	1	2	3
ripple-pool sequence			\smile	
4. Particle size of stream substrate	0	1	2	3
5. Active/relict floodplain	0	1	2	3
6. Depositional bars or benches	0	1		3
7. Recent alluvial deposits	0		2	3
8. Headcuts	0		2	1.5
9. Grade control	0	0.5	1	1.5
10. Natural valley		0.5	Yes	and the second sec
11. Second or greater order channel ^a artificial ditches are not rated; see discussions in manual	N	o = 0	Tes	- 3 and the second
Billydrology (oublotal		· · · · · · · · · · · · · · · · · · ·		
12. Presence of Baseflow	0	1	2	3
13. Iron oxidizing bacteria	0		2	3
14. Leaf litter	1.5	1	0.5	0
15. Sediment on plants or debris	0	0.5		1.5
16. Organic debris lines or piles	0	0.5		1.5
17. Soil-based evidence of high water table?	N N	lo = 0	Yes	= 3>
C. Biology (Subtotal =)	-		and the second	
18. Fibrous roots in streambed	3	(2)	<u>(1</u>)-	0
19. Rooted upland plants in streambed	3	2	1	0
20. Macrobenthos (note diversity and abundance)	O	1	2	3
21. Aquatic Mollusks		1	2	3
22. Fish	\odot	0.5	1	1.5
23. Crayfish	0	0.5	0	1.5
24. Amphibians	0	0.5	(1)	1.5
25. Algae	0	0.5	1	1.5
26. Wetland plants in streambed	FACW = 0.75, OBL = 1.5 Other = 0			
*perennial streams may also be identified using other methods	s. See p. 35 of manu	al.		
Notes:				
Sketch: STREAM 10-3 PERMIA	Pip	eline Row		1
men	V	V PEM Werla	wd . W	1005
STREAM	None of the second s		A	gravel
sheer & grave www.	V/ W	v	. 4	bar
Key: DE woody debrie	S		\$	
W = VRS OP = gravel ber				