Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.5

Named Waterbody: Shaws Creek trib - Wolf River		Date/Time:	6/17/2
Assessors/Affiliation: Ginna McWhirter TDEC DWR		Project ID:	
Site Name/Description: Laura Cline Property		N/A	
Site Location: 7655 Hwy 194, Williston, TN 38076			
HUC (12 digit): 08 0102100303		Lat/Long:	35.1340
Previous Rainfall (7-days): 6/11/22 0.09*		- 89.4	89942
Precipitation this Season vs. Normal: abnormally wet elevated average Source of recent & seasonal precipitation	low abr	ormally dry	unknown
Watershed Size: ~ 0,29 mi ²	County:	Fayette	
Soil Type(s) / Geology: Collins, Grenada		Source:	WSS
Surrounding Land Use: row crop			
Degree of historical alteration to natural channel morphology & hydrology (circ Severe Moderate Slight		escribe fully i bsent	n Notes):
Severe (Moderate Slight	A	bsent	

Primary Field Indicators Observed

Primary Indicators	NO	YES
Hydrologic feature exists solely due to a process discharge	X	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species		WWC
 Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions 	N/A	wwc
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	N/A	WWC
 Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase 		Stream
6. Presence of fish (except Gambusia)		Stream
7. Presence of naturally occurring ground water table connection	×	Stream
8. Flowing water in channel and 7 days since last precip >0.1" in local watershed	×	Stream
9. Evidence watercourse has been used as a supply of drinking water	×	Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.5

Overall Hydrologic Determination = 16,25	
Secondary Indicator Score (if applicable) = WWC	
Justification/Notes: row croppedarea, from aeric altered riparian habitat/veg. Str channel xing already present (3 sn	non metal culverts)
Ziminnows observed an South partion of c	bannel-gambusia

Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 7, 5)	Absent	Weak	Moderate	Strong	
Continuous bed and bank	0	1,	2	3	1,
2. Sinuous channel	0 () 1	2	3	
3. In-channel structure: riffle-pool sequences	0	1	O 2	3	1.
4. Sorting of soil textures or other substrate	0	(1)	2	3	1
5. Active/relic floodplain	(0)	0.5	1	1.5	C
6. Depositional bars or benches	0	(1)	2	3	1.
7. Braided channel	0	1	2	3	0
8. Recent alluvial deposits	(2)	0.5	1	1.5	C
9. Natural levees	0	1	2	3	C
10. Headcuts	(0)	1	2	3	C
11. Grade controls	0	0.5	(1)	1.5] (
12. Natural valley or drainageway	0	0.5	1	1.5	$\rfloor \iota$
13. At least second order channel on existing USGS or NRCS map	No	= 0	Yes = 3		c

B. Hydrology (Subtotal = 3.75)	Absent	Weak	Moderate	Strong	
14. Subsurface flow/discharge into channel	(0)	1.	2	3	
15. Water in channel and >48 hours since sig. rain	0	(1)	2	3	
16. Leaf litter in channel (January – September)	1.5	1	0.5	0	
17. Sediment on plants or on debris	0	(0.5)	1	1.5	
18. Organic debris lines or piles (wrack lines)	0	(0.5)	1	1.5	
19. Hydric soils in channel bed or sides of channel	No	= 0 (Yes =	Yes = 1.5	

C. Biology (Subtotal = 4) 5	Absent	Weak	Moderate	Strong]
20. Fibrous roots in channel bed 1	3	2	(1)	0	1
21. Rooted plants in the thalweg 1	3	2	1	0	_\
22. Crayfish in stream (exclude in floodplain)	(0)	1	2	3	_ C
23. Bivalves/mussels	0	1	2	3	_\c
24. Amphibians	0	(0.5)	1	1.5	0
25. Macrobenthos (record type & abundance)	0	(1)	2	3	1
26. Filamentous algae; periphyton	0	0	2	3	31
27. Iron oxidizing bacteria/fungus	0)	0.5	1	1.5	C
28.Wetland plants in channel bed 2	(0)	0.5	1	1.5	
15	Canada an Banna	annan of a	quetie es wetlen	d plants	

¹ Focus is on the presence of terrestrial plants.

² Focus is on the presence of aquatic or wetland plants.

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

7.5+3.75+45 16.25

Notes: Western side of channel: confluence w/ another channel + Makes
upper area some veg growing in bed, elm, rases, trumpet vine grass?
virginia creeper poison in no evidence of hydric soil, small room
upper area come veg growing in bed, elm, roses, trampet vine grass > virginia creeper poison in no evidence of hydric soil, small roots present throughout channel, some grade control d/s near confluence (tree rocts) + more definition. rear culvert, areas of spread out
Flow rdeepens 17-8' wide, 5' high) privet
South area channel widens out + has deeperstanding water, saw +
ward to teast to from bornh voser privat, elms etr water in pecis
@ least 1' deep, ends @ beyond property line, saw dragon flies
water in pools taring + not Howing, sand bottom, some bars/benches
observed, synam amont of fexture sorting
O teast 1' deep, ends & beyond propert, line, saw dragon files water in pools tannic + not flowing, sand bottom, some bars/benotes observed, small amnt of texture sating some periphyton on leaver, found 2 minnows, dragon Pey larvae culvertappears to have altered the north side?
from end of S to N is about foc'