

Site: Alligator Spring

Date: 6/29/10

Investigator: L. Hestee
P. Madden

Transect (m)	Point 1=right 9=left	Algal Thickness (0 - 5)	Algae Type	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness (0 - 5)	Algae Type	Canopy Cover		
0	1	<i>Inaccessible</i>	F D O		60	1	4	(F) D O	95/96		
	2		F D O			2	5	(F) D O			
	3		F D O			3	6	(F) D O			
	4		F D O			4	5	(F) D O			
	5		F D O			5	5	(F) D O			
	6		F D O			6	5	(F) D O			
	7		F D O			7	6	(F) D O			
	8		F D O			8	4	(F) D O			
	9		F D O			9	0	F D O			
10	1	0	F D O	68/96	70	1	0	F D O	92/96		
	2	4	(F) D O			2	0	F D O			
	3	4	(F) D O			3	0	F D O			
	4	5	(F) D O			4	0	(F) D O			
	5	5	(F) D O			5	6	(F) D O			
	6	5	(F) D O			6	5	(F) D O			
	7	5	(F) D O			7	5	(F) D O			
	8	5	(F) D O			8	5	(F) D O			
	9	5	(F) D O			9	5	(F) D O			
20	1	5	(F) D O	91/96	80	1	4	(F) D O	89/96		
	2	5	(F) D O			2	0	F D O			
	3	5	(F) D O			3	5	(F) D O			
	4	5	(F) D O			4	6	(F) D O			
	5	5	(F) D O			5	4	(F) D O			
	6	5	(F) D O			6	5	(F) D O			
	7	5	(F) D O			7	5	(F) D O			
	8	5	(F) D O			8	5	(F) D O			
	9	0	F D O			9	0	F D O			
30	1	5	(F) D O	60/96	90	1	5	(F) D O	94/96		
	2	5	(F) D O			2	5	(F) D O			
	3	5	(F) D O			3	6	(F) D O			
	4	5	(F) D O			4	6	(F) D O			
	5	5	(F) D O			5	5	(F) D O			
	6	5	(F) D O			6	5	(F) D O			
	7	5	(F) D O			7	0	F D O			
	8	5	(F) D O			8	0	F D O			
	9	0	(F) D O			9	0	F D O			
40	1	0	(F) D O	75/96	100	1	5	(F) D O	96/96		
	2	0	(F) D O			2	0	F D O			
	3	0	(F) D O			3	5	(F) D O			
	4	0	(F) D O			4	6	(F) D O			
	5	5	(F) D O			5	6	(F) D O			
	6	5	(F) D O			6	0	(F) D O			
	7	5	(F) D O			7	0	F D O			
	8	0	F D O			8	4	(F) D O			
	9	0	F D O			9	5	(F) D O			
50	1	6	(F) D O	96/96	Algal Thickness Rank						
	2	6	(F) D O		0	1	2	3	4	5	6
	3	5	(F) D O		0 mm rough	<0.5 mm or slimy	0.5 - 1 mm	>1 to <6 mm	6 - 20 mm	2-10 cm	>10 cm
	4	4	(F) D O		Record an "X" for points where algae is not sampled because the substrate cannot be seen or reached with the hand.						
	5	6	(F) D O		Algae Type: F = Filamentous D = Diatoms O = Other						
	6	6	(F) D O		Record canopy cover as the number of small densiometer squares (out of 96) that HAVE TREE COVER. Measure while facing upstream.						
	7	0	F D O								
	8	0	F D O								
	9	0	F D O								

Notes: - lots of snail shells & eggs

- Avg width: 50-60 ft.

- Avg depth: ~1.5 ft.

Record canopy cover as the number of small densiometer squares (out of 96) that HAVE TREE COVER. Measure while facing upstream.

to finish transect 0.

- Run blocked by fallen tree + grape vines

both shoreline - poison ivy thickets, so couldn't go further.

hydro lab measurements on back →

hydrolab measurements

temp: 23,37°C

SpC: 361

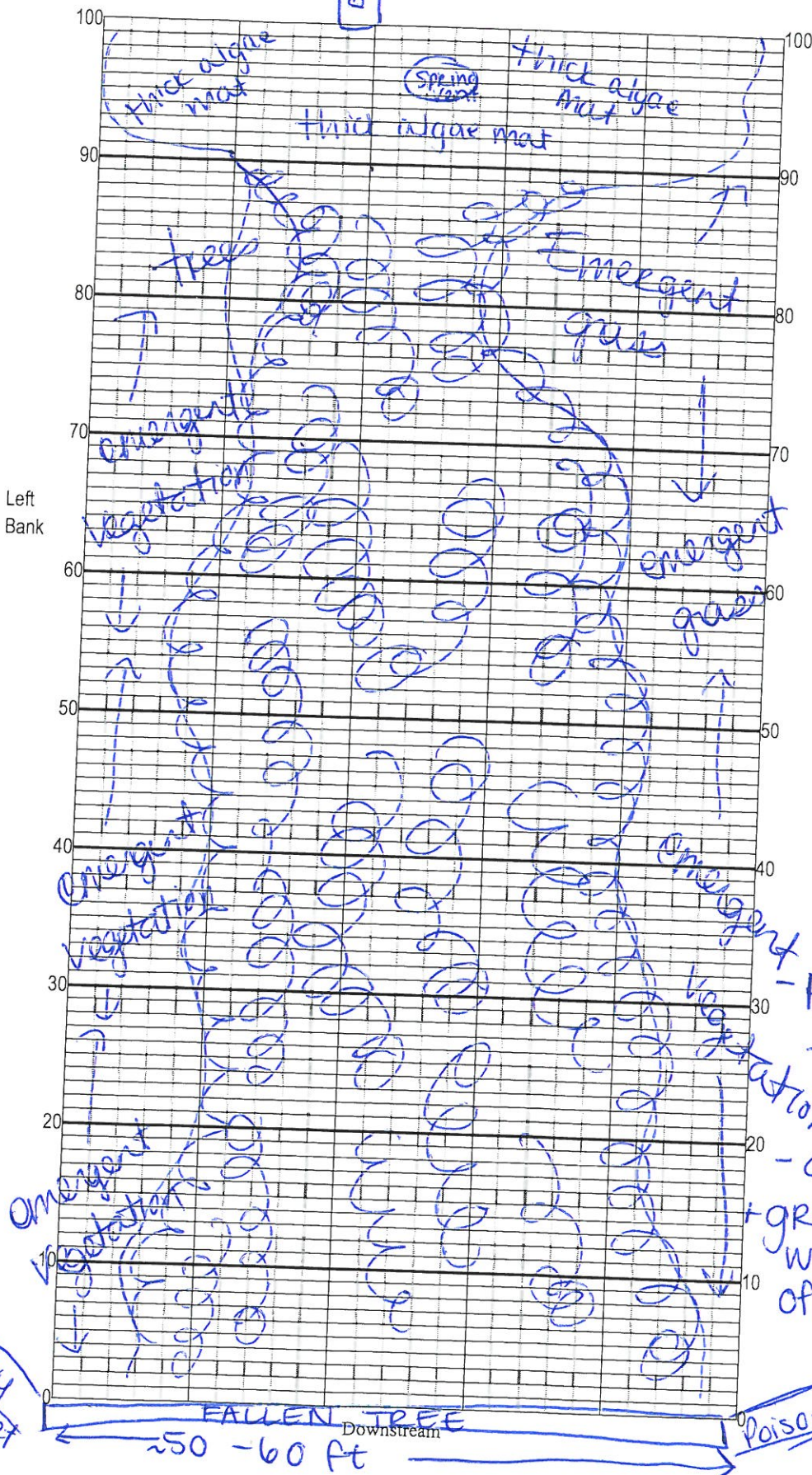
DO: 5,56 mg/L

%DO: 65,4

pH: 7,77

DEP-SOP-001/01 Form FD 9000-4
Stream/River Habitat Sketch Sheet

Alligator Spring
6/29/10



Substrates: Code key, draw proportionate habitat abundance.

- ☐ Snags
- ☐ Roots/undercut banks
- ☐ Leaf Packs (or mats)
- ☐ Aquatic Macrophytes
- ☒ grass + fallen branches w/ algae
- ☐
- ☐

Velocity:
Note where velocity measures were taken.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
Note areas (on map) where natural vegetation is altered or eliminated.

- P. Madden; L. Hester

- under photos taken

- algae on ground, fallen tree limbs
+ grass down run with some patches of sand.

Poison Ivy Thicket

Poison Ivy Thicket

Length of grid represents 100 m of stream (not linear meters).
(Horizontal scale is double vertical scale, draw proportionately).

Revision Date: September 10, 2008

6/29/10

Alligator Spring
51 ft across

5 feet
Shoreline-trees

$$\frac{51}{20} = 2.55$$

- L. Hester, P. Madden

$$53.45 - 0 = 53.45$$

$$56 - 0.4 = 55.6$$

Reading #20
Init dist: 53.45
depth: 0.0
Velocity: —

Reading #21
Dist Init pt: 56.0
Depth: 0.4
Velocity: 0.02

Ang Coef	Dist from init point	Width	Depth	Observation Depth (0.6)	Observation Depth Bottom (0.8)	Observation Depth Top (0.2)	Velocity		Adj for horiz angle or	Area	Discharge
							At point	Mean in vert			
REV	0.0										
1.00	5.00	0.00	0	0.00			—		0.000	0.00	0.00
					0.00						
						0.00					
1.00	7.55	0.00	0.1	0.00			—		0.000	0.00	0.00
					0.00						
						0.00					
1.00	10.1	0.00	0.3	0.00			-0.2		0.000	0.00	0.00
					0.00						
						0.00					
1.00	12.65	0.00	0.5	0.00			-0.2		0.000	0.00	0.00
					0.00						
						0.00					
1.00	15.2	0.00	0.4	0.00			-0.2		0.000	0.00	0.00
					0.00						
						0.00					
1.00	17.75	0.00	0.55	0.00			0.05		0.000	0.00	0.00
					0.00						
						0.00					
1.00	20.3	0.00	0.7	0.00			0.10		0.000	0.00	0.00
					0.00						
						0.00					
1.00	22.95	0.00	0.95	0.00			0.11		0.000	0.00	0.00
					0.00						
						0.00					
1.00	25.4	0.00	1	0.00			0.10		0.000	0.00	0.00
					0.00						
						0.00					
1.00	27.95	0.00	1.3	0.00			0.11		0.000	0.00	0.00
					0.00						
						0.00					
1.00	30.5	0.00	1.65	0.00			0.25		0.000	0.00	0.00
					0.00						
						0.00					
1.00	33.05	0.00	1.6	0.00			0.20		0.000	0.00	0.00
					0.00						
						0.00					
1.00	35.6	0.00	1.6	0.00			0.24		0.000	0.00	0.00
					0.00						
						0.00					
1.00	38.15	0.00	1.55	0.00			0.34		0.000	0.00	0.00
					0.00						
						0.00					
1.00	40.7	0.00	1.3	0.00			0.42		0.000	0.00	0.000
					0.00						
						0.00					
1.00	43.25	0.00	1.15	0.00			0.14		0.000	0.00	0.000
					0.00						
						0.00					
1.00	45.8	0.00	1	0.00			0.14		0.000	0.00	0.000
					0.00						
						0.00					
1.00	48.35	0.00	0.8	0.00			0.10		0.000	0.00	0.000
					0.00						
						0.00					
1.00	50.9	0.00	0.6	0.00			0.9		0.000	0.00	0.00

