

Big Cypress Creek Bacteria Assessment Study

Comprehensive Recreational Use Attainability Analysis

Randy Rushin Water Monitoring Solutions, Inc.



Comprehensive Recreational Use Attainability Analysis

- Purpose: determine if a change of designated use classification is needed
- Intensive assessment of stream uses through local interviews
- Field sampling events with observations and data collection



RUAA Schedule

 1st round conducted Memorial Day through June 2nd

2nd round conducted July 4th weekend

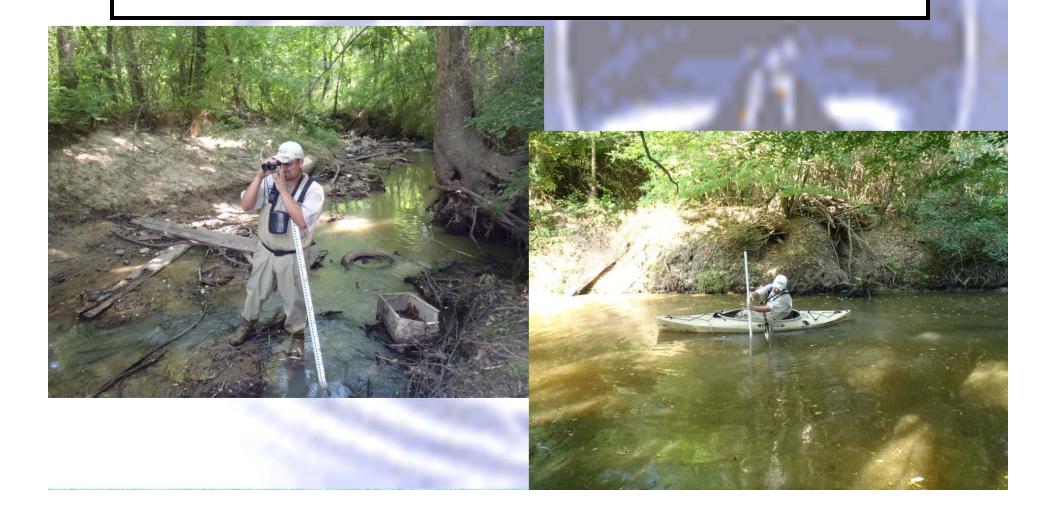


RUAA Procedures

- Mark sample reach (300 m)
- Flow measurement
- Depth and width measurements (30 m)
- Photographic record (30, 150, 300 m)
- Record recreational use observations
- Interviews

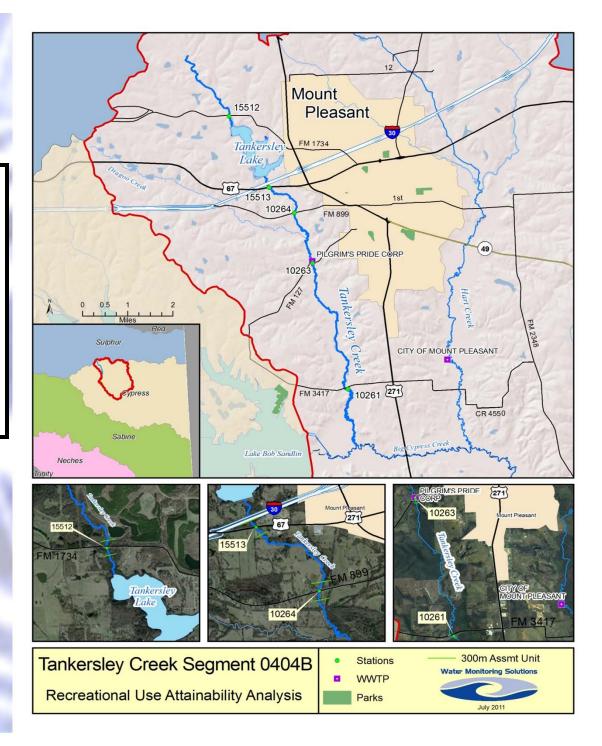


Methods



Water Monitoring Solutions

Tankersley Creek Stations



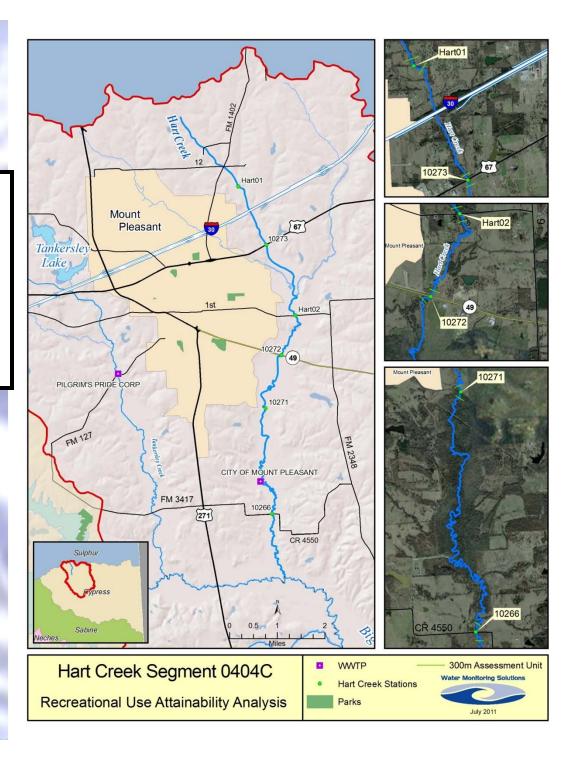


Tankersley Creek Results

Station	Memorial Day			July 4th			
	Avg. Width	Avg. Thalweg	Flow (cfs)	Avg. Width	Avg. Thalweg	Flow (cfs)	
15512	16.1	1.75	N/A	13.5	1.63	N/A	
15513	5.3	0.70	0.01	6.8	0.75	O	
10264	5.3	0.61	0.01	5.6	0.66	0.01	
10263	5.3	0.65	6.6	5.1	0.59	3	
10261	3.1	0.35	1.6	5.1	0.59	5.9	
Average	7.0	0.8	2.1	7.2	0.8	2.2	



Hart Creek Stations



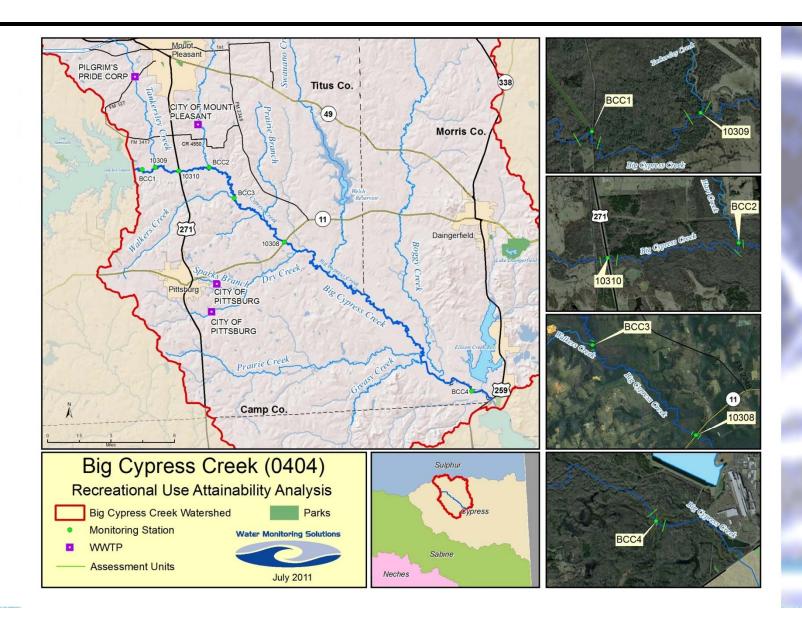


Hart Creek Results

	Memorial Day			July 4th			
Station	Avg. Width	Avg. Thalweg	Flow (cfs)	Avg. Width	Avg. Thalweg	Flow (cfs)	
Hart01	3.0	0.31	0.01	2.7	0.31	0.01	
10273	5.7	0.72	О	5.5	0.59	0.01	
Hart02	3.9	0.37	0.3	3.8	0.33	0.2	
10272	4.8	0.55	0.2	4.2	0.38	0.2	
10271	3.3	0.17	0.2	2.9	0.15	0.2	
10266	5.3	0.46	3.8	5.1	0.51	1.85	
Average	4.3	0.4	0.8	4.0	0.4	0.4	



Big Cypress Creek Stations



Big Cypress Creek Results

Station	Memorial Day			July 4th			
	Avg. Width	Avg. Thalweg	Flow (cfs)	Avg. Width	Avg. Thalweg	Flow (cfs)	
BCC1	44.8		0.3	43		0.2	
10309	7.3	0.86	0.3	6.6	0.61	0.2	
10310	13.8		2.8	12.9	1.2	5.4	
BCC2	9.7	0.75	2.7	7	0.58	3.7	
BCC3	13	0.79		12.8	0.97		
10308	9.8		13	9.9	1.18	12	
BCC4	35.5		N/A	42.6	2.26	N/A	
Average	19.1	0.8	3.8	19.3	1.1	4.3	



Observed Stream Uses

Wildlife

Livestock

Fishing



Conditions that Impede Recreational Use

- Steep Banks
- Thick Vegetation
- Murky Water
- Soft Sediment
- Channel Obstructions
- Wildlife/Snakes
- Private Property/Fences
- Depth





Conditions that Impede Recreational Use



Results

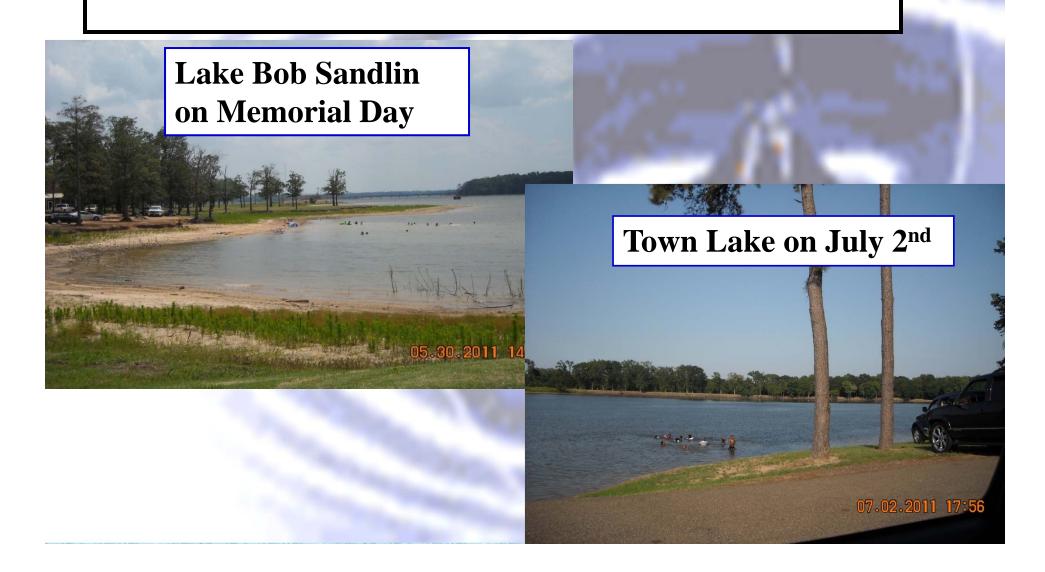
- No one was observed at any station on Tankersley or Hart Creeks
- No evidence of recreation at any station on Hart Creek
- Evidence of fishing on Tankersley Creek between FM 1734 and Tankersley Lake

Results (cont.)

- The only people observed during study were fishing from a boat below Ft. Sherman Dam – site access is limited to TCFWSD employees
- Evidence of fishing at SH 11 and Sand Crossing
- Interviews with USACE, TPWD, TCFWSD and landowners confirmed these observations



Where Did You Go?





Attendee Input:

How do you use these streams?

Are you aware of anyone swimming or fishing in these streams?

Is another recreational use standard appropriate?





For Additional Information:

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