

# Three Mile Creek Watershed Management Plan

## Appendix F – Technical Committee BMP Survey and Results

### Three Mile Creek Watershed Management Measures: Prioritization Survey Results

**Question #1: Please rate the following potential management measures for Three Mile Creek.**

Answer Options	Rating	HIGH (5 points)	#(5)	HIGH / MEDIUM (4 points)	#(4)	MEDIUM (3 points)	#(3)	MEDIUM / LOW (2 points)	#(2)	LOW (1 point)	#(1)	Response Count	Average Response
3 WQ: Identify and remove sanitary sewer system and septic system leakage/overflows into groundwater, creek, and tributaries (provides reduction in nutrients, oxygen demand, pathogens and wastewater compounds).	9	45	2	8	0	0	0	0	0	0	0	11	4.818
2 WQ: Identify and remove illicit discharges to stormwater and surface water system (provides reduction in nutrients, oxygen demand, pathogens, and wastewater compounds).	8	40	1	4	2	6	0	0	0	0	0	11	4.545
18 Other	4	20	0	0	0	0	1	2	0	0	0	5	4.400
9 HA: Stabilize/Restore streambanks and riparian buffers in degraded areas to reduce in-stream erosion and improve habitat condition (provides reduction in nutrients and oxygen demand, improves habitat).	6	30	4	16	2	6	0	0	0	0	0	12	4.333
7 WQ: Repair/Protect/Fortify streambanks where utility infrastructure is located to reduce potential illicit discharges and reduce in-stream erosion (provides reduction in nutrients and oxygen demand and improves habitat).	5	25	4	16	3	9	0	0	0	0	0	12	4.167
1 Water Quality (WQ): Install Stormwater Outfall End-of-Pipe BMPs-- to remove non-point sources (also provides reduction in nutrients, oxygen demand and pathogens).	4	20	3	12	4	12	0	0	0	0	0	11	4.000

Answer Options	Rating											Response Count	Average Response
	HIGH (5 points)	#(5)	HIGH / MEDIUM (4 points)	#(4)	MEDIUM (3 points)	#(3)	MEDIUM / LOW (2 points)	#(2)	LOW (1 point)	#(1)			
4 WQ: Install Green Infrastructure to reduce stormwater volume and velocity– (bioretention/bioswales, reuse detention BMPs ) in upland areas (provides reduction in nutrients, oxygen demand and pathogens).	4	20	4	16	1	3	2	4	0	0	11	3.909	
14 HA: Plant desirable vegetation along creek and tributary streambanks; develop plan for long term plant management (provides reduction in nutrients, oxygen demand and pathogens, improves habitat).	4	20	3	12	2	6	2	4	0	0	11	3.818	
6 WQ: Reduce/modify impervious areas using LID practices to reduce stormwater runoff to waterways (provides reduction in nutrients, oxygen demand, and pathogens).	2	10	5	20	4	12	1	2	0	0	12	3.667	
8 Habitat (HA): Develop a map of current creek and tributary bathymetry to identify areas within surface water system in need of sediment removal to improve stream condition (provides reduction in nutrients, oxygen demand and pathogens, improves habitat).	3	15	2	8	6	18	1	2	0	0	12	3.583	
10 HA: Stabilize streambanks at stormwater outfalls to reduce stream bank erosion (provides reduction in nutrients and oxygen demand).	2	10	6	24	2	6	1	2	1	1	12	3.583	
11 HA: Partner with private land owners to revegetate upland areas in watershed to reduce erosion and loss of other materials and improve habitat condition (provides reduction in nutrients, oxygen demand and pathogens).	5	25	1	4	3	9	2	4	1	1	12	3.583	
12 HA: Restore hydrology of historic channel to creek system to improve flow capacity and sensitive habitats. (reduces oxygen demand and pathogens, improves habitat).	3	15	4	16	2	6	2	4	1	1	12	3.500	

# Three Mile Creek Watershed Management Plan

Answer Options	Rating											Response Count	Average Response
	HIGH (5 points)	#(5)	HIGH / MEDIUM (4 points)	#(4)	MEDIUM (3 points)	#(3)	MEDIUM / LOW (2 points)	#(2)	LOW (1 point)	#(1)			
5 WQ: Create additional stormwater detention -- Modify existing wet ponds at USA Campus/Langan Park to reduce stormwater volume and velocity (provides reduction in nutrients, oxygen demand, and pathogens).	4	20	2	8	3	9	1	2	2	2	12	3.417	
15 HA: Create Living Shorelines in lower/tidal creek segment to reduce stream bank erosion (reduces oxygen demand and pathogens, improves habitat).	2	10	2	8	4	12	3	6	0	0	11	3.273	
13 HA: Improve management of/Remove exotic/nuisance vegetation adjacent to creek and tributaries to improve sensitive habitats (provides reduction in nutrients entering the creek, improves habitat).	1	5	3	12	4	12	2	4	1	1	11	3.091	
16 Access (AC): Create continuous 12-mile, shared-use trail (recreation, history & culture, health, education) from Langan Park to downstream end of TMC. Identify and provide parking and access points along route.	3	15	2	8	2	6	0	0	4	4	11	3.000	
17 AC: Create creek "blue-way" for paddlers from Langan Park to downstream end of TMC. This will require special consideration at each of the USACE weir structures.	0	0	3	12	2	6	1	2	5	5	11	2.273	
Other (Please specify) 1. The "LOW" and "MEDIUM/LOW" priorities are VERY important, but not in the beginning.													
Other (Please specify) 2. City of Mobile needs a better plan to get trash out of system "before the end of pipe". Need better code enforcement and a new contractor w sewerage/outfall mgt concerns.													

Answer Options	Rating										Response Count	Average Response
	HIGH (5 points)	#(5)	HIGH / MEDIUM (4 points)	#(4)	MEDIUM (3 points)	#(3)	MEDIUM / LOW (2 points)	#(2)	LOW (1 point)	#(1)		
Other (Please specify) 3. Add to Item 8: Include incremental flow mapping to study hydrology inputs. Another Item to Map/Assess the current Riparian Buffer status for the entire drainage.												
Other (Please specify) 4. Ordinance and fines against litter												

**Question #2: Please provide a name to let us know who provided this input. Thanks**

Number	Response Date	Response Text
1	October 1, 2013, 4:16 PM	Ray
2	October 1, 2013, 1:15 Pm	Jeff DeQuattro
3	October 1, 2013, 1:11 PM	Jason Wilkins
4	October 1, 2013, 2:50 PM	Bert Eichold
5	September 30, 2013, 4:56 PM	Dave Armstrong
6	September 30, 2013, 3:46 PM	Christian
7	September 30, 2013, 3:16 PM	Joyce Nicholas
8	September 30, 2013, 3:08 PM	Randy Shaneyfelt

# Three Mile Creek Watershed Management Plan

---

Three Mile Creek Watershed Management Measures: Prioritization Original Survey

Continued on the next page.

# Three Mile Creek Watershed Management Measures: Prioritization

## Intro/Charge

Vision--- Three Mile Creek and its surrounding watershed present an extraordinary opportunity to the cities of Mobile and Prichard to turn what is now a community liability, due to its degraded condition, into a community amenity and a waterway destination for the City of Mobile.

Success--- To transform TMC into a beautiful and valuable artery through the cities of Mobile and Prichard, with improved water quality, accessible walking/biking paths and park areas, neighborhood linkages, and non-motorized boating.

Below is a list of potential management measures to improve the quality of this watershed's waters and environmentally sensitive habitats. Based on the results of the Three Mile Creek watershed assessment and your professional opinion, please rate the following 18 measures on a scale of one to five (1-5) with

HIGH (5 pts) - First priority: necessary to undertake to improve water quality and habitat conditions

HIGH/MEDIUM (4 pts) - Second priority: Not necessary but desirable to improve water quality and habitat condition

MEDIUM (3 pts) - Third priority: If the opportunity arises, it would be a good investment

MEDIUM/LOW (2 pts) - Fourth priority: A project that would benefit only a small percentage of the watershed

LOW (1 pt) - Fifth priority: Not necessary but could compliment improved water quality and habitat conditions

Once the data from this survey is compiled, the Watershed Management Team will further develop the top FIVE TO SEVEN (5-7) measures to highlight as priority actions in the Watershed Plan. This survey should take no longer than 10 minutes.

Please try to complete this survey by close of business, Monday, September 30, 2013, and if that's not possible by close of business on Tuesday, October 1. If you have any questions feel free to contact Mike Hanson, [mhanson@dewberry.com](mailto:mhanson@dewberry.com), or me at [rswann@mobilebaynep.com](mailto:rswann@mobilebaynep.com), or 251-380-7940.

Thank you, Roberta

# Three Mile Creek Watershed Management Measures: Prioritization

## 1. Please rate the following potential management measures for Three Mile Creek:

Rating

1 Water Quality (WQ): Install Stormwater Outfall End-of-Pipe BMPs-- to remove non-point sources (also provides reduction in nutrients, oxygen demand and pathogens).

2 WQ: Identify and remove illicit discharges to stormwater and surface water system (provides reduction in nutrients, oxygen demand, pathogens, and wastewater compounds).

3 WQ: Identify and remove sanitary sewer system and septic system leakage/overflows into groundwater, creek, and tributaries (provides reduction in nutrients, oxygen demand, pathogens and wastewater compounds).

4 WQ: Install Green Infrastructure to reduce stormwater volume and velocity--(bioretention/bioswales, reuse detention BMPs ) in upland areas (provides reduction in nutrients, oxygen demand and pathogens).

5 WQ: Create additional stormwater detention --Modify existing wet ponds at USA Campus/Langan Park to reduce stormwater volume and velocity (provides reduction in nutrients, oxygen demand, and pathogens).

6 WQ: Reduce/modify impervious areas using LID practices to reduce stormwater runoff to waterways (provides reduction in nutrients, oxygen demand, and pathogens).

7 WQ: Repair/Protect/Fortify streambanks where utility infrastructure is located to reduce potential illicit discharges and reduce in-stream erosion (provides reduction in nutrients and oxygen demand and improves habitat).

8 Habitat (HA): Develop a map of current creek and tributary bathymetry to identify areas within surface water system in need of sediment removal to improve stream condition (provides reduction in nutrients, oxygen demand and pathogens, improves habitat).

9 HA: Stabilize/Restore streambanks and riparian buffers in degraded areas to reduce in-stream erosion and improve habitat condition (provides reduction in nutrients and oxygen demand, improves habitat).

10 HA: Stabilize streambanks at stormwater outfalls to reduce stream bank erosion (provides reduction in nutrients and oxygen demand).

11 HA: Partner with private land owners to revegetate upland areas in watershed to reduce erosion and loss of other materials and improve habitat condition (provides reduction in nutrients, oxygen demand and pathogens).

12 HA: Restore hydrology of historic channel to creek system to improve flow capacity and sensitive habitats. (reduces oxygen demand and pathogens, improves habitat).

13 HA: Improve management of/Remove exotic/nuisance vegetation adjacent to creek and tributaries to improve sensitive habitats (provides reduction in nutrients entering the creek, improves habitat).

14 HA: Plant desirable vegetation along creek and tributary streambanks; develop plan for long term plant management (provides reduction in nutrients, oxygen demand and pathogens, improves habitat).

15 HA: Create Living Shorelines in lower/tidal creek segment to reduce stream bank erosion (reduces oxygen demand and pathogens, improves habitat).

# Three Mile Creek Watershed Management Measures: Prioritization

habitat).

16 Access (AC): Create continuous 12-mile, shared-use trail (recreation, history & culture, health, education) from Langan Park to downstream end of TMC. Identify and provide parking and access points along route.

17 AC: Create creek "blue-way" for paddlers from Langan Park to downstream end of TMC. This will require special consideration at each of the USACE weir structures.

18 Other

Other (please specify)

## 2. Please provide a name to let us know who provided this input! Thanks.

Thank you for taking the time to complete this exercise. Your participation in the revitalization of the Three Mile Creek Watershed is important to its success. Have a nice day, Roberta