

# Ohio EPA 2008 Integrated Report Section M2 Watershed Assessment Unit (WAU) Results

**HUC11**

**WAU Description**

**WAU Size (mi<sup>2</sup>): 157.3**

05080002 030

Twin Creek (headwaters to upstream Bantas Fork)

**Integrated Report Assessment Category: 5**

**Priority Points: 6**

**Next Scheduled Monitoring: 2019**

## Aquatic Life Use Assessment

Subcategories of ALU: EWH,WWH, MWH-C

Sampling Year(s): 2005

Impairment: Yes (5)

Stream Size Category	Raw Data		% Attainment			WAU Score		
	Data Available	No. Attaining	Full	Partial	Non	Full	Partial	Non
Secondary Tributaries								
< 5 mi <sup>2</sup>	Site(s)	Site(s)						
Primary Tributaries								
5-20 mi <sup>2</sup>	13 Site(s)	5 Site(s)	69.3	30.7	0.0			
20-50 mi <sup>2</sup>	3 Site(s)	3 Site(s)				81	19	0
Principal Streams								
50-500 mi <sup>2</sup>	6 Site(s)							
	11.4 Miles	10.5 Miles	92.1	7.90	0.00			

### High Magnitude Causes

Phosphorus (Total)  
Excess Algal Growth  
Sedimentation/Siltation  
Ammonia (Total)  
Oxygen, Dissolved  
Natural Conditions (Flow or Habitat)

### High Magnitude Sources

Municipal Point Source Discharges  
Runoff from Forest/Grassland/Parkland  
Channelization  
Crop Production with Subsurface Drainage  
Loss of Riparian Habitat  
Sewage Discharges in Unsewered Areas  
Animal Feeding Operations (NPS)  
Agriculture  
On-Site Treatment Systems (Septic Systems and Similar Decentralized Systems)  
Natural Sources

## Recreation Use Assessment

Subcategory of Use: Primary Contact

Impairment: Yes (5)

No. Ambient Sites: 11

No. of NPDES MOR Sites: 4

Other:

Cause: Pathogens

No. Ambient Sampling Records: 75

No. of NPDES MOR Records: 80

Geometric Mean: 447

75<sup>th</sup> %ile: 1040

90<sup>th</sup> %ile: 4560

## Public Drinking Water Supply Assessment

Location(s): No Public Drinking Water Supply Intakes

Impairment:

Cause:

Nitrate Indicator:

Pesticide Indicator:

## Fish Tissue Assessment

Waters Sampled: Yes Impairment: Yes (5-Historical Data)

Stream Miles Monitored: 11.18 Stream Miles Impaired: 11.18 Pollutants (Waterbody): PCBs

Lake Acres Monitored: 0.0 Lake Acres Impaired:

## WAU Comments

Intensive chemical, physical, and biological monitoring was conducted in the Twin Creek basin in 2005. Principal streams sampled included Twin Creek, Millers Fork, Swamp Creek, and Price Creek. For the 2006 Integrated Report, 2005 bacteria data were available which resulted in an impaired recreation use assessment. 2005 biological and chemical data for assessment of aquatic life uses were not available for the 2006 Integrated Report but are the basis for the TMDL and are included in the 2008 Integrated Report. Check the TMDL web page at <http://www.epa.state.oh.us/dsw/tmdl/index.html> for updated information on the Twin Creek TMDL report and its assessment of pollutants impairing beneficial uses.

**Ohio EPA 2008 Integrated Report Section M2  
Watershed Assessment Unit (WAU) Results**

**HUC11**

**WAU Description**

**WAU Size (mi<sup>2</sup>): 159.0**

05080002 040 Twin Creek (upstream Bantas Fork to mouth)

**Integrated Report Assessment Category: 5**

**Priority Points: 8**

**Next Scheduled Monitoring: 2019**

**Aquatic Life Use Assessment**

Subcategories of ALU: EWH,WWH

Sampling Year(s): 2005

Impairment: Yes (5)

Stream Size Category	Raw Data		% Attainment			WAU Score		
	Data Available	No. Attaining	Full	Partial	Non	Full	Partial	Non
<b>Secondary Tributaries</b>								
< 5 mi <sup>2</sup>	4 Site(s)	2 Site(s)						
<b>Primary Tributaries</b>								
5-20 mi <sup>2</sup>	9 Site(s)	6 Site(s)	66.7	33.3	0.0			
20-50 mi <sup>2</sup>	4 Site(s)	3 Site(s)						
<b>Principal Streams</b>						83	17	0
50-500 mi <sup>2</sup>	8 Site(s)							
	24.3 Miles	24.3 Miles	100	0.00	0.00			

High Magnitude Causes

Oxygen, Dissolved  
Sedimentation/Siltation  
Ammonia (Total)  
Chemical Oxygen Demand (COD)  
Phosphorus (Total)  
Natural Conditions (Flow or Habitat)

High Magnitude Sources

Channelization  
Loss of Riparian Habitat  
Package Plant or Other Permitted Small flow Discharges  
Crop Production with Subsurface Drainage  
Natural Sources

**Recreation Use Assessment**

Subcategory of Use: Primary Contact

Impairment: Yes (5)

Cause: Pathogens

Geometric Mean: 383

No. Ambient Sites: 10

No. Ambient Sampling Records: 44

75<sup>th</sup> %ile: 803

No. of NPDES MOR Sites: 1

No. of NPDES MOR Records: 18

90<sup>th</sup> %ile: 3100

Other:

**Public Drinking Water Supply Assessment**

Location(s): No Public Drinking Water Supply Intakes

Impairment:

Nitrate Indicator:

Cause:

Pesticide Indicator:

**Fish Tissue Assessment**

Waters Sampled: Yes Impairment: Yes (5-Historical Data)

Stream Miles Monitored: 24.32 Stream Miles Impaired: 24.32 Pollutants (Waterbody): PCBs

Lake Acres Monitored: 0.0 Lake Acres Impaired:

**WAU Comments**

Intensive chemical, physical, and biological monitoring was conducted in the Twin Creek basin in 2005. Principal streams sampled included Twin Creek, Bantas Fork, Aukerman Creek, Tom's Run, and Little Twin Creek. For the 2006 Integrated Report, 2005 bacteria data were available which resulted in an impaired recreation use assessment. 2005 biological and chemical data for assessment of aquatic life uses were not available for the 2006 Integrated Report but are the basis for the TMDL and are included in the 2008 Integrated Report. Check the TMDL web page at <http://www.epa.state.oh.us/dsw/tmdl/index.html> for updated information on the Twin Creek TMDL report and its assessment of pollutants impairing beneficial uses.