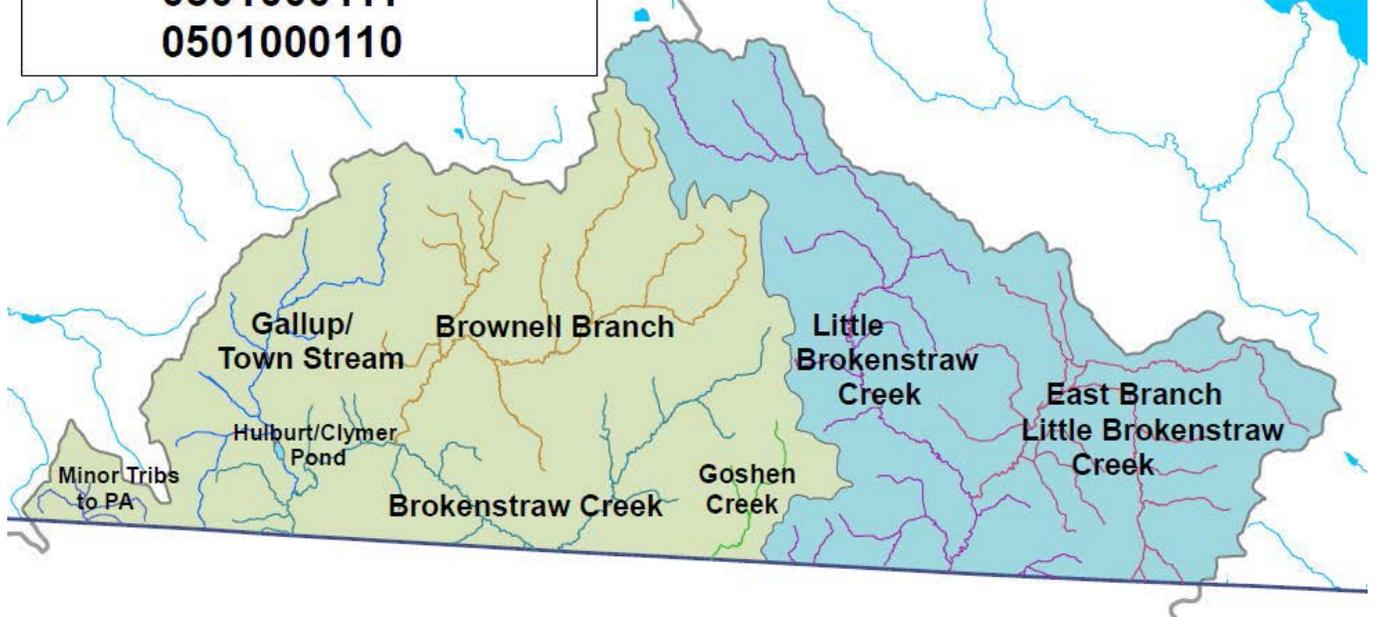


Brokenstraw Creek and Little Brokenstraw Creek Watersheds

0501000111
0501000110



Little Brokenstraw Creek Watershed (0501000110)

Brokenstraw Creek Watershed (0501000111)

Water Index Number	Waterbody Segment	Category
Pa-71	Little Brokenstraw Creek and minor tribs (0202-0057)	Threatened
Pa-71- 3	East Br. Little Brokenstraw and tribs (0202-0058)	Unassessed
Pa-74 thru 75	Goshen Creek, Upper, and tribs (0202-0059)	Unassessed
Pa-77	Brokenstraw Creek and minor tribs (0202-0005)	Minor Impacts
Pa-77- 1	Gallup/Town Stream and tribs (0202-0060)	Minor Impacts
Pa-77- 1-P150	Hurburt/Clymer Pond (0202-0079)	Impaired
Pa-77- 2	Brownell Branch and tribs (0202-0061)	Minor Impacts
Pa-78, 79	Minor Tribs to Pennsylvania (0202-0062)	Unassessed

Little Brokenstraw Creek and Minor Tribs (0202-0057)

Threatened

Waterbody Location Information

Revised: 07/01/2014

Water Index No: Pa-71
Unit Code: 0501000110 **Class:** C(T)
Water Type/Size: River 31.9 Miles
Description: entire stream and selected tribs

Drain Basin: Allegheny River
Reg/County: Upper Allegheny
9/Chautauqua Co. (7)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	
Public Bathing	N/A	
Recreation	Fully Supported	Suspected
Aquatic Life	Threatened	Suspected
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s)

Known: - - -
Suspected: UNKNOW POLLUTANT (biological impacts)
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Unconfirmed: AGRICULTURE

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Little Brokenstraw Creek is assessed as being threatened due to aquatic life that is thought to be threatened by nonpoint silt/sediment loads. Biological sampling results show slightly impacted conditions that approach the nonimpacted range with a community that is most similar to natural conditions.

Use Assessment

Little Brokenstraw Creek is a Class C waterbody, suitable for general recreation and support of aquatic life, but not for use as a water supply or public bathing beach.

Aquatic life is considered to be supported with minimal impacts. Biological sampling of the stream show conditions to be in the slightly impacted range, but approaching nonimpacted. This sampling can also been used to infer that there is no significant impact to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. Additional sampling is also needed to more fully evaluate other recreational and swimming use. (DEC, DOW, BWAM, July 2014)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health Advisories and DEC/DOW, BWAM, January 2014).

Water Quality Information

A biological (macroinvertebrate) assessment of Little Brokenstraw Creek in Panama (at Route 33) was conducted as part of the RIBS biological screening effort in 2006. Sampling results reflect good water quality, with conditions in the slightly impacted range, but approaching an assessment of nonimpacted. The macroinvertebrate community showing some beginning signs of alteration from natural conditions. Some expected sensitive species are not present and overall macroinvertebrate species richness is somewhat lower than expected, but overall there is still balanced distribution of all expected taxa. Aquatic life is supported. Assessment of the habitat condition and any resulting influence on biology was not conducted, but the biological community indicates water quality reflective of minimal anthropogenic influences. (DEC/DOW, BWAM/SBU, July 2014)

Source Assessment

Based on the biologic community composition, water quality is reflective of minimal anthropogenic sources. Surrounding land use and other knowledge of the waterbody indicate agricultural and other nonpoint source runoff to be the most likely potential sources. (DEC/DOW, BWAM/SBU, July 2014)

Management Action

No specific management actions have been identified for this waterbody.

Section 303(d) Listing

Little Brokenstraw Creek is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. (DEC/DOW, BWAM/WQAS, July 2014)

Segment Description

This segment includes the entire stream and selected/smaller tribs. The waters of the stream are Class C,C(T). Tribs to this reach/segment, including Indian Brook (-1), are also Class C,C(T). East Branch Little Brokenstraw Creek (-3) is listed separately.

East Branch Little Brokenstraw Creek and tribs (0202-0058) Unassessed

Waterbody Location Information

Revised: 07/01/2014

Water Index No:	Pa-71- 3	Drain Basin:	Allegheny River
Unit Code:	0501000110	Class:	C(T)
Water Type/Size:	River		28.4 Miles
Description:	entire stream and tribs		Reg/County: 9/Chautauqua Co. (7)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	
Public Bathing	N/A	
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C(T). Tribs to this reach/segment are Class C.

Goshen Creek, Upper, and tribs (0202-0059)

Unassessed

Waterbody Location Information

Revised: 07/01/2014

Water Index No:	Pa-74 thru 75	Drain Basin:	Allegheny River
Unit Code:	0501000111	Class:	B
Water Type/Size:	River		3.7 Miles
Description:	entire stream and tribs		Reg/County: 9/Chautauqua Co. (7)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	
Public Bathing	N/A	
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class B. Tribs to this reach/segment are also Class B.

Brokenstraw Creek and minor tribs (0202-0005)

Minor Impacts

Waterbody Location Information

Revised: 07/01/2014

Water Index No: Pa-77	Drain Basin: Allegheny River
Unit Code: 0501000111 Class: C	Upper Allegheny
Water Type/Size: River 23.4 Miles	Reg/County: 9/Chautauqua Co. (7)
Description: entire stream and selected tribs	

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Stressed	Suspected
Aquatic Life	Stressed	Known
Fish Consumption	Unassessed	-

Conditions Evaluated

Habitat/Hydrology	Fair
Aesthetics	Unknown

Type of Pollutant(s)

Known:	SILT/SEDIMENT
Suspected:	---
Unconfirmed:	---

Source(s) of Pollutant(s)

Known:	AGRICULTURE
Suspected:	---
Unconfirmed:	---

Management Information

Management Status:	Restoration/Protection Strategy Needed
Lead Agency/Office:	ext/WQCC
IR/305(b) Code:	Water Attaining Some Standards (IR Category 2)

Further Details

Overview

Brokenstraw Creek is assessed as having minor impacts due to aquatic life that is known to be stressed by silt/sediment from nonpoint agricultural runoff.

Use Assessment

Brokenstraw Creek is a Class C waterbody, suitable for general recreation and support of aquatic life, but not for use as a water supply or public bathing beach.

Aquatic life is considered to be supported but stressed, based on biological sampling of the stream. This

sampling can also be used to infer that there is minor impact to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC, DOW, BWAM, July 2014)

Fish Consumption use is considered to be unassessed. There are no health advisories limiting the consumption of fish from this waterbody (beyond the general advice for all waters). However due to the presence of impacts/contaminants in the stream and the uncertainty as to whether the lack of a waterbody-specific health advisory is based on actual sampling, fish consumption use is noted as unassessed, rather than fully supported but unconfirmed. (NYS DOH Health Advisories and DEC/DOW, BWAM, December 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of Brokenstraw Creek in Clymer (at Knowlton Road) was conducted as part of the RIBS biological screening effort in 2006. Sampling results reflect fair water quality, with the macroinvertebrate community altered from what is expected under natural conditions. Some expected sensitive species are not present and overall macroinvertebrate species richness is lower than expected, but overall there is still balanced distribution of all expected taxa. Aquatic life is supported. Assessment of the habitat condition and any resulting influence on biology was not conducted, but impoundment effects were identified by impact source determination (ISD). (DEC/DOW, BWAM/SBU, July 2014)

Source Assessment

Based on the biologic community composition, surrounding land use and other knowledge of the waterbody, the most likely sources of silt and sediment in the waterbody is agricultural nonpoint source runoff. (DEC/DOW, BWAM/SBU, July 2014)

Management Action

No specific management actions have been identified for this waterbody.

Section 303(d) Listing

Brokenstraw Creek is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. (DEC/DOW, BWAM/WQAS, July 2014)

Segment Description

This segment includes the entire stream and selected/smaller tribs. The waters of the stream are Class C. Tribs to this reach/segment are also Class C. Gallup/Town Stream (-1) and Brownell Branch (-2) are listed separately.

Gallup/Town Stream and tribs (0202-0060)

Minor Impacts

Waterbody Location Information

Revised: 07/01/2014

Water Index No:	Pa-77- 1	Drain Basin:	Allegheny River	
Unit Code:	0501000111	Class:	C	
Water Type/Size:	River		14.3 Miles	
Description:	entire stream and tribs		Reg/County:	9/Chautauqua Co. (7)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Unassessed	-
Aquatic Life	Stressed	Known
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s)

Known:	NUTRIENTS (phosphorus)
Suspected:	- - -
Unconfirmed:	Pesticides

Source(s) of Pollutant(s)

Known:	AGRICULTURE
Suspected:	- - -
Unconfirmed:	- - -

Management Information

Management Status:	Restoration/Protection Strategy Needed
Lead Agency/Office:	ext/WQCC
IR/305(b) Code:	Water Attaining Some Standards (IR Category 2)

FurtherDetails

Overview

Gallup/Town Stream is assessed as having minor impacts due to aquatic life that is known to be stressed by nutrients from nonpoint agricultural runoff. Pesticides may also be contributing to the impacts.

Use Assessment

Brownell Branch is a Class C waterbody, suitable for general recreation and support of aquatic life, but not for use as a water supply or public bathing beach.

Aquatic life is considered to be supported but stressed, based on biological sampling of the stream. This

sampling can also be used to infer that there are no significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC, DOW, BWAM, July 2014)

Fish Consumption use is considered to be unassessed. There are no health advisories limiting the consumption of fish from this waterbody (beyond the general advice for all waters). However due to the presence of impacts/contaminants in the stream and the uncertainty as to whether the lack of a waterbody-specific health advisory is based on actual sampling, fish consumption use is noted as unassessed, rather than fully supported but unconfirmed. (NYS DOH Health Advisories and DEC/DOW, BWAM, December 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of Gallup/Town Stream in Clymer (at Route 474 Bridge) was conducted as part of the RIBS biological screening effort in 2006. Sampling results reflect fair to good water quality, with the macroinvertebrate community somewhat altered from what is expected under natural conditions. Some expected sensitive species are not present and overall macroinvertebrate species richness is lower than expected, but overall there is still balanced distribution of all expected taxa. Aquatic life is supported. Information on the habitat condition and any resulting influence on biology is not available. (DEC/DOW, BWAM/SBU, July 2014)

Source Assessment

Based on the biologic community composition, surrounding land use and other knowledge of the waterbody, the most likely source of nutrients and other pollutants in the waterbody is agricultural nonpoint source runoff. (DEC/DOW, BWAM/SBU, July 2014)

Management Action

No specific management actions have been identified for this waterbody.

Section 303(d) Listing

Gallup/Town Stream is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. (DEC/DOW, BWAM/WQAS, July 2014)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C,C(T). Tribs to this reach/segment, including Lathrup Gulf Brook (-1), are also Class C,C(T).

Hulburt/Clymer Pond (0202-0079)

Impaired

Waterbody Location Information

Revised: 04/01/2016

Water Index No: Pa-77- 1-P150
Hydro Unit Code: Brokenstraw Creek (0501000111)
Water Type/Size: Lake/Reservoir 14.2 Acres
Description: entire lake

Water Class: C
Drainage Basin: Allegheny River
Reg/County: 9/Chautauqua (7)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Impaired	Known
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Poor	

Type of Pollutant(s)

Known: ALGAL/PLANT GROWTH, NUTRIENTS (PHOSPHORUS)
Suspected: Low D.O./Oxygen Demand
Unconfirmed:

Source(s) of Pollutant(s)

Known: AGRICULTURE
Suspected:
Unconfirmed:

Management Information

Management Status: Restoration/Protection Strategy Needed
Lead Agency/Office: DOW/Reg9
IR/305(b) Code: Impaired Water Requiring a TMDL (IR Category 5)

Further Details

Overview

Hulburt/Clymer Pond is assessed as an impaired waterbody due to recreation uses that are known to be impaired by nutrients (phosphorus), excessive algae and poor water clarity from agricultural sources. The aesthetic condition of the lake also affects recreational use.

Use Assessment

This pond is designated Class C, suitable for general recreation and aquatic life support, but not classified for use as a water supply or for public bathing.

Recreational use of Clymer Pond is considered to be impaired by high algae levels and poor water clarity. Both parameters can be linked to high nutrient levels and stress the aesthetics of the pond. Readings of pH and Dissolved oxygen were within the state water quality standards for protection of aquatic life; no evidence of aquatic life impairments have been documented or reported. (DEC/DOW, BWAM/LCI, March 2014)

Water Quality Information

Clymer Pond was sampled through the 2011 and 2012 Lake Classification and Inventory (LCI) survey by the NYSDEC Division of Water. These data indicate that the pond is best characterized as hyper-eutrophic, or highly productive. Phosphorus levels in the pond greatly exceed the state guidance values of 20 ug/l and chlorophyll a levels were above assessment criteria indicative of algae levels that impair recreational use. Water clarity was often restricted; with transparency less than what is minimally recommended for safe recreational use. (DEC/DOW, BWAM/LCI, March 2014)

Source Assessment

A formal evaluation of nutrient (phosphorus) sources to the pond has not been initiated; however agricultural lands make up a large portion of the pond's watershed. A silage leachate collection system was not functioning, at a medium scale concentrate animal feeding operation (CAFO), in the headwaters of Lathrup Gulf Brook, about 1 mile upstream of Clymer Pond, for an undetermined amount of time, prior to November 2010. It is not known to what extent the non-functioning leachate collection system has contributed to water quality impairments in Lathrup Gulf Brook and/or Clymer Pond. (DEC/DOW, R9, October 2013)

Management Actions

Enforcement action against the medium CAFO on Lathrup Gulf Brook upstream of Clymer Pond required the installation of a complete silage leachate collection and treatment system, which was online and functioning by the spring of 2012. (DEC/DOW, R9, October 2013) A range of best management practices and other recommendations to restore and protect water quality in New York State lakes are outlined in the NYSDEC manual Diet for a Small Lake (NYSDEC/NYSFOLA, 2009, <http://www.dec.ny.gov/chemical/82123.html>) The town park provides a public access point for shoreline fishing with no known restrictions to launching a hand carried boat.

Section 303(d) Listing

Clymer Pond is included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. The waterbody is included on Part 1 of the List as an impaired waterbody requiring the eventual development of a TMDL or other restoration strategy to address phosphorus. This waterbody was first listed on the 2016 List. (DEC/DOW, BWAM/WQAS, April 2016)

Segment Description

This segment includes the entire area of the lake.

Brownell Branch and tribs (0202-0061)

Minor Impacts

Waterbody Location Information

Revised: 07/01/2014

Water Index No:	Pa-77- 2	Drain Basin:	Allegheny River	
Unit Code:	0501000111	Class:	C	
Water Type/Size:	River		27.2 Miles	
Description:	entire stream and tribs		Reg/County:	9/Chautauqua Co. (7)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Unassessed	-
Aquatic Life	Stressed	Known
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s)

Known:	NUTRIENTS (phosphorus)
Suspected:	- - -
Unconfirmed:	Pesticides

Source(s) of Pollutant(s)

Known:	AGRICULTURE
Suspected:	- - -
Unconfirmed:	- - -

Management Information

Management Status:	Restoration/Protection Strategy Needed
Lead Agency/Office:	ext/WQCC
IR/305(b) Code:	Water Attaining All Standards (IR Category 1)

Further Details

Overview

Brownell Branch is assessed as having minor impacts due to aquatic life that is known to be stressed by nutrients from nonpoint agricultural runoff. Pesticides may also be contributing to the impacts.

Use Assessment

Brownell Branch is a Class C waterbody, suitable for general recreation and support of aquatic life, but not for use as a water supply or public bathing beach.

Aquatic life is considered to be supported but stressed, based on biological sampling of the stream. This

sampling can also be used to infer that there are no significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC, DOW, BWAM, July 2014)

Fish Consumption use is considered to be unassessed. There are no health advisories limiting the consumption of fish from this waterbody (beyond the general advice for all waters). However due to the presence of impacts/contaminants in the stream and the uncertainty as to whether the lack of a waterbody-specific health advisory is based on actual sampling, fish consumption use is noted as unassessed, rather than fully supported but unconfirmed. (NYS DOH Health Advisories and DEC/DOW, BWAM, December 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of Brownell Branch in Jaquins (at Nazareth Road/County Route 8) was conducted as part of the RIBS biological screening effort in 2006. Sampling results reflect fair to good water quality, with the macroinvertebrate community somewhat altered from what is expected under natural conditions. Some expected sensitive species are not present and overall macroinvertebrate species richness is lower than expected, but overall there is still balanced distribution of all expected taxa. Aquatic life is supported. Information on the habitat condition and any resulting influence on biology is not available. (DEC/DOW, BWAM/SBU, July 2014)

Source Assessment

Based on the biologic community composition, surrounding land use and other knowledge of the waterbody, the most likely source of nutrients and other pollutants in the waterbody is agricultural nonpoint source runoff. (DEC/DOW, BWAM/SBU, July 2014)

Management Action

No specific management actions have been identified for this waterbody.

Section 303(d) Listing

Brownell Branch is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. (DEC/DOW, BWAM/WQAS, July 2014)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C,C(T). Tribs to this reach/segment, including Little Brownell Branch (-2), are also Class C,C(T).

Minor Tribes to Pennsylvania (0202-0062)

Unassessed

Waterbody Location Information

Revised: 07/01/2014

Water Index No: Pa-78, 79 **Drain Basin:** Allegheny River
Unit Code: 0501000111 **Class:** B **Reg/County:** Upper Allegheny
Water Type/Size: River 3.7 Miles 9/Chautauqua Co. (7)
Description: Total length of selected/smaller tribes to PA

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	
Public Bathing	Unassessed	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Unconfirmed: - - -

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Segment Description

This segment includes the total length of selected/smaller tribes flowing into Pennsylvania. Tribes within this segment, including Hare Creek (-78), are Class B.