



Genesee/Beards Creek Watershed (0413000305)

Water Index Number	Waterbody Segment	Category
Ont 117 (portion 3)	Genesee River, Middle, Main Stem (0402-0009)	No Known Impacts
Ont 117- 26 thru 69	Minor Tribs to Middle Genesee River (0402-0039)	Unassessed
Ont 117- 27	See <i>Honeoye Creek Watershed</i>	
Ont 117- 28 thru 39	Minor Tribs to Middle Genesee River (0402-0084)	Unassessed
Ont 117- 28-P59	Cement Plant Pond (0402-0080)	Unassessed
Ont 117- 30	Genesee River Trib (-30) and tribs (0402-0059)	Unassessed
Ont 117- 31-P61	Horseshoe Pond (0402-0065)	Unassessed
Ont 117- 40	See <i>Conesus Creek Watershed</i>	
Ont 117- 41 thru 65	Minor Tribs to Middle Genesee River (0402-0085)	Unassessed
Ont 117- 42	Christie Creek and tribs (0402-0060)	Impaired
Ont 117- 45	Fowlerville Creek and tribs (0402-0062)	Threatened
Ont 117- 49	Browns Creek and tribs (0402-0083)	Minor Impacts
Ont 117- 53	Salt/Bidwells Creek and tribs (0402-0063)	Minor Impacts
Ont 117- 57	Jaycox Creek and tribs (0402-0064)	Minor Impacts
Ont 117- 60	Beards Creek and tribs (0402-0037)	Needs Verification
Ont 117- 60-2	Little Beards Creek and tribs (0402-0014)	Unassessed
Ont 117- 60-2-P73b	Lake LaGrange (0402-0008)	Unassessed

Genesee River, Middle, Main Stem (0402-0009)

No Known Impacts

Waterbody Location Information

Revised: 10/28/2015

Water Index No:	Ont 117 (portion 3)	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 45 Miles	Reg/County:	8/Livingston (26)
Description:	from Scottsville to Geneseo/Mt Morris		

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Good
Aesthetics	Good

Type of Pollutant(s)

(CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

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

Source(s) of Pollutant(s)

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

Management Information

Management Status:	No Action Needed
Lead Agency/Office:	DOW/BWAM
IR/305(b) Code:	Water Attaining All Standards (IR Category 1)

Further Details

Overview

This portion of the Genesee River is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

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

Aquatic life is considered to be fully supported based on biological sampling that shows non-impacted conditions. 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/SBU, August 2015)

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 the Genesee River in Avon (at Route 5/20) was conducted as part of the RIBS biological screening/monitoring effort in 2009. Sampling results indicated non-impacted conditions and very good water quality. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. Aquatic life community is fully supported. Biological monitoring was also conducted at an additional site in Piffard and sampling results reflected moderately impacted (poor) water quality. However, the site was not wadeable and monitoring was conducted at the bank of the river. This method of sampling was not accounted for when the sample was analyzed therefore the sample is considered to be not reflective of true water quality conditions. These results are consistent with previous sampling along this reach. Biological (macroinvertebrate) assessments were conducted at two sites along this reach of the Genesee River in 1999. Sampling results indicated slightly impacted water quality conditions near Avon. Sampling in Cuylerville revealed non-impacted conditions. (DEC/DOW, BWAMR/SBU, January 2016)

Source Assessment

There are no apparent sources of pollutants to the waterbody. Biological results suggest natural conditions with minimal human disturbance.

Both point sources (primarily municipal wastewater discharges) as well as agricultural and other nonpoint sources of pollutants have been identified in the watershed. Significant streambank erosion resulting in high sediment loads and turbidity are also typical in much of the Genesee River. The Genesee STP and Avon STP have been identified as two of several wastewater treatment phosphorus reduction priorities in the Genesee Basin Watershed Plan (see Management Actions below), though impacts to this specific reach are limited. The watershed includes large concentrations of agricultural lands and rural areas served by onsite wastewater (septic) systems, both of which pose some threat to water supply and other uses. The nonpoint source impacts are exacerbated by natural geology as the Genesee River cuts through an alluvial plain with highly erodible soils.

Management Actions

No specific management actions have been identified or are deemed necessary for the waterbody.

NYSDEC developed an extensive watershed management plan for the Genesee River Basin. The Genesee River Basin Nine Key Element Watershed Plan for Phosphorus and Sediment (September 2015) focuses on management and reduction of phosphorus and sediment loads to Genesee River and Lake Ontario. The Plan builds on past and ongoing nonpoint source management practices throughout the basin, as well as implementation of a strategy to reduce phosphorus from wastewater treatment plants. Over half (56%) of the proposed point source reduction of phosphorus is from the five larger WWTPs (> 1.0 MGD) in the lower basin (i.e., below Mount Morris Dam). Reductions for these plants are already reflected in their permits. About one-third (31%) of the reduction is from smaller plants in the lower basin. Reduction at these plants may require upgrades; the target for meeting reductions at these plants is 2019. The remaining reductions (13%) is from facilities in the upper basin. Reduction at these plants may also require upgrades; the target for meeting reductions at these plants is also 2019. (DEC/DOW, BWRM, September 2016)

Section 303(d) Listing

The Genesee River, Middle, Main Stem is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts/impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment extends from Oatka Creek (-25) in Scottsville to Cassadaga Creek (-66) in Genesee/Mount Morris.

Minor Tribs to Middle Genesee River (0402-0039)

Unassessed

Waterbody Location Information

Revised: 9/25/2015

Water Index No: Ont 117- 26 thru 69
Hydro Unit Code: Beards Creek-Genesee River (0413000305)
Water Type/Size: River/Stream 135.1 Miles
Description: total length of selected/smaller tribs to Genesee River

Water Class: C
Drainage Basin: Genesee River
Reg/County: 8/Livingston (26)

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) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

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.

Use Assessment

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

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in

this waterbody segment is needed.

Section 303(d) Listing

This trib waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the total length of selected/smaller tribs to the Genesee River from Oatka Creek (-25) in Scottsville to Honeoye Creek (-27) in Golah. Tribs within this segment are Class C. Oatka Creek and Honeoye Creek are listed as separate segments.

Minor Tribs to Middle Genesee River (0402-0084)

Unassessed

Waterbody Location Information

Revised: 09/30/2016

Water Index No:	Ont 117- 28 thru 39	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 43.6 Miles	Reg/County:	8/Livingston (26)
Description:	total length of selected tribs, Golah to Avon		

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) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

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.

Use Assessment

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

Water Quality Information

There is currently no sufficient water quality information available upon which to base an assessment.

A biological (macroinvertebrate) assessment of a small unnamed trib (-38) in Avon (at River Road) was conducted as part of the RIBS biological screening effort in 2014. Sampling results revealed severe impacts but the stream was channelized and thought to be highly influenced by a local industrial discharge (Kraft Foods); it is not certain that this trib is fully representative of the entire segment. (DEC/DOW, BWAM/SBU, August 2016)

A biological (macroinvertebrate) assessment of White Creek (-34) in Caledonia was conducted in 2014 as part of NYSDEC's citizen science stream monitoring program, WAVE. The macroinvertebrate community was found to be non-impacted and the waterbody was evaluated as fully supporting of aquatic life.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this waterbody segment is needed.

Section 303(d) Listing

This trib waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, January 2015)

Segment Description

This segment includes the total length of selected/smaller tribs to the Genesee River from Honeoye Creek (-27) in Golah to Conesus Creek (-40) in Avon. Tribs within this segment, including Dugan Creek (-28) and White Creek (-34), are primarily Class C, with a few tribs Class C(T). Honeoye Creek and Conesus Creek are listed as separate segments.

Cement Plant Pond (0402-0080)

Unassessed

Waterbody Location Information

Revised: 10/28/2015

Water Index No:	Ont 117- 28-P59	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	Lake/Reservoir 19.9 Acres	Reg/County:	8/Livingston (26)
Description:	entire lake		

Water Quality Problem/Issue Information

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

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

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.

Use Assessment

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

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in

this waterbody segment is needed.

Section 303(d) Listing

Cement Plant Pond is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

The segment includes the total area of the entire lake.

Genesee River Trib (-30) and tribs (0402-0059)

Unassessed

Waterbody Location Information

Revised: 8/13/2015

Water Index No:	Ont 117- 30	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 25.7 Miles	Reg/County:	8/Ontario (35)
Description:	entire stream and tribs		

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) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

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.

Use Assessment

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

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in

this waterbody segment is needed.

Section 303(d) Listing

This waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the entire stream and tribs The waters of this portion of the stream are Class C.

Horseshoe Pond (0402-0065)

Unassessed

Waterbody Location Information

Revised: 8/13/2015

Water Index No:	Ont 117- 31-P61	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	Lake/Reservoir 26.9 Acres	Reg/County:	8/Livingston (26)
Description:	entire lake		

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) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

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.

Use Assessment

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

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in

this waterbody segment is needed.

Section 303(d) Listing

Horseshoe Pond is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the total area of the entire lake.

Minor Tribs to Middle Genesee River (0402-0085)

Unassessed

Waterbody Location Information

Revised: 09/30/2016

Water Index No: Ont 117- 41 thru 65
Hydro Unit Code: Beards Creek-Genesee River (0413000305)
Water Type/Size: River/Stream 59.4 Miles
Description: total length of selected tribs, Avon to Geneseo/Mt Morris

Water Class: C
Drainage Basin: Genesee River
Reg/County: 8/Livingston (26)

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) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

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.

Use Assessment

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

Water Quality Information

There is currently no sufficient water quality information available upon which to base an assessment.

A biological (macroinvertebrate) assessment of a small unnamed trib (-44a) in York (at Casey Road) was conducted as part of the RIBS biological screening effort in 2009. Sampling results revealed slight impacts but habitat factors may have influenced the sample and it is not certain that this trib is fully representative of the entire segment. (DEC/DOW, BWAM/SBU, August 2016)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this waterbody segment is needed.

Section 303(d) Listing

This trib waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the total length of selected/smaller tribs to the Genesee River from Conesus Creek (-40) in Avon to Cassadaga Creek (-66) in Geneseo/Mount Morris. Tribs within this segment are Class C; a small pond on unnamed trib (-59) is Class AA. Conesus Creek (-40), Christie Creek (-42), Fowlerville Creek (-45), Browns Creek (-49) Salt/Bidswell Creek (-53), Jaycox Creek (-57), Beards Creek (-60), and Cassadaga Creek (-66) are listed as separate segments.

Christie Creek and tribs (0402-0060)

Impaired

Waterbody Location Information

Revised: 08/01/2016

Water Index No:	Ont 117- 42	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 30.8 Miles	Reg/County:	8/Livingston (26)
Description:	entire stream and tribs		

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Fair
Aesthetics	Unknown

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: NUTRIENTS (phosphorus), Low D.O./Oxygen Demand
Suspected: - - -
Unconfirmed: - - -

Source(s) of Pollutant(s)

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

Management Information

Management Status: Verification of Sources Needed
Lead Agency/Office: DOW/Reg8
IR/305(b) Code: Impaired Water Requiring a TMDL (IR Category 5)

Further Details

Overview

Christie Creek and tribs is assessed as an impaired waterbody due to recreation uses and aquatic life that is known to be impaired by nutrients. Agricultural nonpoint sources are thought to be the most likely sources of pollutants.

Use Assessment

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

Aquatic life is evaluated as impaired based on biological sampling showing significant impacts. This sampling can also be used to infer that there may be significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC, DOW, BWAM, August 2015)

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

Water Quality Information

A biological (macroinvertebrate) survey of Christie Creek at multiple sites within Caledonia was conducted in 2014. Sampling results at two downstream sites on the stream indicated moderately impacted water quality conditions, while conditions at 2 other upstream locations were slightly impacted. Taken together, these sampling results reflect moderately impacted (poor) water quality, with sensitive taxa reduced, and the distribution of major taxonomic groups significantly different from what is naturally expected. Aquatic life is considered to be impaired. These results are consistent with a biological assessment of Christie Creek in Caledonia conducted as part of the RIBS biological screening effort in 2009. (Christie Creek Biological Assessment Report, Novak/Smith et al., DEC/DOW, BWAM/SBU, May 2016)

Substrate habitat at the sites were found to be natural or only slightly altered. However influences from large wetland areas in the upstream and headwater reaches of the watershed, accompanied by significant groundwater contribution at some locations complicate water quality assessments. (DEC/DOW, BWAM/SBU, May 2016)

Source Assessment

Specific sources of pollutants to the waterbody based on biological community composition have not been conclusively identified. Based on surrounding land use and other knowledge of the waterbody, the most likely causes of impacts are nutrient loads to the waterbody from agricultural activity and related nonpoint source runoff. However complex hydrology (wetland areas, groundwater contribution) could influence water quality assessment and should be taken into account.

Management Actions

No specific management actions have been identified for the waterbody. Christie Creek and tribs is included on the Section 303(d) List for eventual development of a TMDL or other restoration strategy.

Christie Creek is one of three New York watersheds selected for participation in the National Water Quality Initiative (NWQI), a program of the U.S. Department of Agriculture National Resources Conservation Service (NRCS) designed to assist farmers, ranchers and forest landowners improve water quality and aquatic habitats in impacted streams. NRCS provides funds for the implementation of conservation and management practices to control and trap nutrient and manure runoff. Producers apply for and receive assistance for installing conservation practices such as cover crops, conservation cropping systems, filter strips and terraces. The 2014 biological survey of the creek was conducted to establish baseline water quality conditions prior to the implementation of these practices. Follow-up monitoring, with the addition of water column chemistry samples, will be conducted at selected sites in even-numbered years to 2020, to determine if water quality improvements tied to the implemented conservation practices can be identified. (DEC/DOW, BWAM/SBU, May 2016)

Section 303(d) Listing

Christie Creek and tribs 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 TMDL development for phosphorus. This waterbody was first listed on the 2012 List. (DEC/DOW, BWAM/WQAS, August 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream and all tribs are Class C.

Fowlerville Creek and tribs (0402-0062)

Threatened

Waterbody Location Information

Revised: 9/25/2015

Water Index No:	Ont 117- 45	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 18.3 Miles	Reg/County:	8/Livingston (26)
Description:	entire stream and tribs		

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	Good
Aesthetics	Good

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known:	---
Suspected:	Silt/Sediment
Unconfirmed:	---

Source(s) of Pollutant(s)

Known:	---
Suspected:	Streambank Erosion
Unconfirmed:	---

Management Information

Management Status:	Verification of Pollutant/Cause Needed
Lead Agency/Office:	DOW/BWAM
IR/305(b) Code:	Water with Insufficient Data (IR Category 3)

Further Details

Overview

Fowlerville Creek is assessed as being threatened due to aquatic life that is thought to be threatened by silt/sediment from unspecified nonpoint sources. Biological sampling results show slightly impacted conditions that approach the nonimpacted range and with a community that has some similarity to natural conditions. Highly erodible soils throughout the Genesee River Basin is likely contributing to the sediment load.

Use Assessment

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

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 non-impacted and/or with a community that is most similar to natural conditions. This sampling can also be used to infer that there no significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. Due to the limited data (a single sample) additional sampling is needed to verify current impacts/impairment/conditions. (DEC/DOW, BWAM/SBU, August 2015)

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 Fowlerville Creek in Fowlerville (at Casey Road) was conducted as part of the RIBS biological screening/monitoring effort in 2009. Sampling results reflect good water quality. Conditions were in the slightly impacted range but approaching non-impacted and communities has some similarity to natural conditions. The macroinvertebrate community shows some beginning signs of alteration, 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. Habitat/hydrology conditions reflect minimal human disturbances but do not appear to limit or otherwise influence aquatic life. Aquatic life is fully supported and there are no other apparent water quality impacts. (DEC/DOW, BWAM/SBU, August 2015)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified. Identification of sources based on biological community composition indicated siltation impacts. Agricultural activities and related nonpoint sources are suspected sources.

Management Actions

No specific management actions have been identified for the waterbody. Given the generally low level of impact, local stakeholders (SWCD/WQCC) – with input from Regional DOW staff – would be appropriate to oversee protection efforts.

Section 303(d) Listing

Fowlerville Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, August 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream and tribs are Class C.

Browns Creek and tribs (0402-0083)

Minor Impacts

Waterbody Location Information

Revised: 09/30/2016

Water Index No:	Ont 117- 49	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 21.6 Miles	Reg/County:	8/Livingston (26)
Description:	entire stream and tribs		

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Good
Aesthetics	Good

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known:	---
Suspected:	Nutrients (phosphorus), Silt/Sediment
Unconfirmed:	---

Source(s) of Pollutant(s)

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

Management Information

Management Status:	Verification of Problem Severity Needed
Lead Agency/Office:	DOW/Reg8
IR/305(b) Code:	Water with Insufficient Data (IR Category 3)

Further Details

Overview

Browns Creek is assessed as having minor impacts – that might rise to the level of impairment – due to aquatic life that is known to be stressed, perhaps impaired. No specific pollutant or sources have been identified, but land use suggests agricultural activities contribute to the impacts.

Use Assessment

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

Aquatic life is evaluated as impaired but this evaluation should be confirmed. Biological sampling in different years and at different locations moderate to slight impacts. This sampling can also be used to infer that there are minor impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (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 Browns Creek in Piffard (at Limerick Road) was conducted as part of the RIBS biological screening effort in 2014; sampling was also conducted in York (at Route 36) in 2009. The more recent sampling results reflect moderately impacted (poor) water quality, with sensitive taxa reduced and the distribution of major taxonomic groups significantly different from what is naturally expected. The 2009 results reveal fair water quality, with the macroinvertebrate community altered from what is expected under natural conditions, but overall there is still balanced distribution of all expected taxa and aquatic life based on this sample would be considered to be supported. The habitat assessment found poorer conditions in the 2014 sampling, suggesting some of the impact may be attributed to habitat influences, but additional sampling is needed to confirm which of the evaluations is the most appropriate. (DEC/DOW, BWAM/SBU, August 2016)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified. Identification of sources based on biological community composition was inconclusive. Based on surrounding land use and other knowledge of the waterbody, the most likely sources of nutrients to the waterbody are from agricultural activities and related nonpoint runoff.

Management Actions

No specific management actions have been identified for the waterbody. Additional sampling to verify the level of impact in this waterbody segment is recommended.

NYSDEC developed an extensive watershed management plan for the Genesee River Basin. The Genesee River Basin Nine Key Element Watershed Plan for Phosphorus and Sediment (September 2015) focuses on management and reduction of phosphorus and sediment loads to Genesee River and Lake Ontario. The Plan builds on past and ongoing nonpoint source management practices throughout the basin, as well as implementation of a strategy to reduce phosphorus from wastewater treatment plants. (DEC/DOW, BWRM, September 2016)

Section 303(d) Listing

Browns Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient (inconclusive) evidence that would justify the listing of this waterbody, but additional monitoring is recommended. (DEC/DOW, BWAM/WQAS, August 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream and tribs are Class C.

Salt/Bidwells Creek and tribs (0402-0063)

Minor Impacts

Waterbody Location Information

Revised: 09/30/2016

Water Index No:	Ont 117- 53	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 30.6 Miles	Reg/County:	8/Livingston (26)
Description:	entire stream and 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	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known:	Nutrients (phosphorus), Silt/Sediment
Suspected:	- - -
Unconfirmed:	Pathogens

Source(s) of Pollutant(s)

Known:	Agriculture
Suspected:	Streambank Erosion
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

Salt/Bidwells Creek is currently assessed as having minor impacts due to aquatic life that is known to be stressed by nutrients and silt/sediment from agricultural activities and other nonpoint sources.

Use Assessment

Salt/Bidwells Creek and tribs is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing. Aquatic life is evaluated as supported but stressed based on biological sampling that shows generally slight impacts. This sampling can also be used to infer that there may be minor impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC, DOW, BWAM, July 2016)

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 Salt Creek in York (at River Road) was conducted in 2014 and 2009. The more recent 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. Some changes in community composition have occurred due to replacement of sensitive ubiquitous taxa by more tolerant taxa, but overall there is still balanced distribution of all expected taxa. The 2009 sampling results reflect moderately impacted water quality. Sampling farther upstream in Bidwells Creek in Piffard (at Route 36/Main Street) revealed slightly impacted water quality. In spite of the minor impacts, aquatic life is considered to be supported. (DEC/DOW, BWAM/SBU, August 2016)

Source Assessment

Based on the surrounding land use and other knowledge of the waterbody, the most likely sources of nutrient and other impacts are related to agricultural activity in the watershed. The creek flows through horse and cow pasture lands and cattle have access to the stream; previous assessments noted manure along the creek.

Management Actions

No specific management actions have been identified for the waterbody. Given the generally low level of impact, local stakeholders (SWCD/WQCC) – with input from Regional DOW staff – would be appropriate to oversee protection efforts and management activity.

NYSDEC developed an extensive watershed management plan for the Genesee River Basin. The Genesee River Basin Nine Key Element Watershed Plan for Phosphorus and Sediment (September 2015) focuses on management and reduction of phosphorus and sediment loads to Genesee River and Lake Ontario. The Plan builds on past and ongoing nonpoint source management practices throughout the basin, as well as implementation of a strategy to reduce phosphorus from wastewater treatment plants. (DEC/DOW, BWRM, September 2016)

Section 303(d) Listing

Salt/Bidwells Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, August 2016)

Segment Description

This segment includes the stream and all tribs. The waters of the stream are Class C. Tribs to this segment, including Bairds Creek (-2), are also Class C. Note that the lower portion of the stream is known as Salt Creek and the upper portion is known as Bidwells Creek.

Jaycox Creek and tribs (0402-0064)

Minor Impacts

Waterbody Location Information

Revised: 09/30/2016

Water Index No:	Ont 117- 57	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 34.4 Miles	Reg/County:	8/Livingston (26)
Description:	entire stream and 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	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Fair

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known:	Nutrients (phosphorus), Silt/Sediment
Suspected:	- - -
Unconfirmed:	Pathogens

Source(s) of Pollutant(s)

Known:	Agriculture
Suspected:	Streambank Erosion
Unconfirmed:	

Management Information

Management Status:	Restoration/Protection Strategy Needed
Lead Agency/Office:	ext/WQCC
IR/305(b) Code:	Impaired Water Requiring a TMDL (IR Category 5), PROPOSED FOR DELIST

Further Details

Overview

Jaycox Creek is currently assessed as having minor impacts due to aquatic life that is known to be stressed by nutrients and silt/sediment from agricultural activities and other nonpoint sources.

Use Assessment

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

Aquatic life is evaluated as supported but stressed based on biological sampling that shows slight impacts. The more recent sampling at this site represents an improvement from previous (1999) sampling results that had reflected moderate impacts. This sampling can also be used to infer that there may be minor impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC, DOW, BWAM, July 2016)

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 Jaycox Creek near Geneseo (at Nations Road) was conducted in 2014. 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. Some changes in community composition have occurred due to replacement of sensitive ubiquitous taxa by more tolerant taxa, but overall there is still balanced distribution of all expected taxa. These results are consistent with slight impacts found in 2004, and reflects water quality improvement from moderately impacted water quality noted in 1999. In spite of the minor impacts, aquatic life is considered to be supported. Poor stream habitat that may have affected the fauna was also noted. (DEC/DOW, BWAM/SBU, August 2016)

Source Assessment

Based on the surrounding land use and other knowledge of the waterbody, the most likely sources of nutrient and other impacts are related to agricultural activity in the watershed. The creek flows through horse and cow pasture lands and cattle have access to the stream; previous assessments noted manure along the creek.

Management Actions

No specific management actions have been identified for the waterbody. Given the generally low level of impact, local stakeholders (SWCD/WQCC) – with input from Regional DOW staff – would be appropriate to oversee protection efforts and management activity.

NYSDEC developed an extensive watershed management plan for the Genesee River Basin. The Genesee River Basin Nine Key Element Watershed Plan for Phosphorus and Sediment (September 2015) focuses on management and reduction of phosphorus and sediment loads to Genesee River and Lake Ontario. The Plan builds on past and ongoing nonpoint source management practices throughout the basin, as well as implementation of a strategy to reduce phosphorus from wastewater treatment plants. (DEC/DOW, BWRM, September 2016)

Section 303(d) Listing

Jaycox Creek is included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. The waterbody is included on Part 3b of the List as an impaired waterbody for which TMDL Development May be Deffered (Requiring Verification of Cause/Pollutant/Source) for both phosphorus and silt/sediment. However this updated assessment suggests that the suspected impacts to water quality and uses are not sufficient to warrant continued listing. This water should be considered for delisting during the next update of the List. This waterbody was first listed on the 2004 List. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream and its tribs are Class C.

Beards Creek and tribs (0402-0037)

Needs Verification

Waterbody Location Information

Revised: 09/30/2016

Water Index No:	Ont 117- 60	Water Class:	C
Hydro Unit Code:	Beards Creek-Genesee River (0413000305)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 50.1 Miles	Reg/County:	8/Livingston (26)
Description:	entire stream and selected/smaller tribs		

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Stressed	Suspected
Aquatic Life	Impaired	Unconfirmed
Fish Consumption	Fully Supported	Unconfirmed
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: - - -
 Suspected: Nutrients (phosphorus)
 Unconfirmed: Chloride/Salts

Source(s) of Pollutant(s)

Known: - - -
 Suspected: Agriculture
 Unconfirmed: Resource Extraction

Management Information

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

Further Details

Overview

Beards (or Bairds) Creek is assessed as needing verification of impacts due to aquatic life that may be impaired, but with conditions that need to be verified. This assessment is based on sampling at a site that was influenced by an impoundment (beaver dam). Previous sampling data found the stream to have only slight impacts. No specific pollutant or sources have been identified.

Use Assessment

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

Aquatic life is known to be stressed, and may rise to the level of impaired. However the most current assessment is based on sampling results that are influenced by impoundment effects and additional sampling to verify conditions is recommended. This sampling can also be used to infer that there are likely minor impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (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 Beards Creek in Wadsworth (at Peoria Road) was conducted as part of the RIBS biological screening effort in 2014. Sampling results reflect moderately impacted (poor) water quality, with sensitive taxa reduced, and the distribution of major taxonomic groups significantly different from what is naturally expected. These results suggest that aquatic life is impaired, however the results are likely influenced by impoundment effects (due to a beaver dam). Previous sampling of the stream in Cuylerville (at River Road) in 1999 reflect better (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. Some changes in community composition have occurred due to replacement of sensitive ubiquitous taxa by more tolerant taxa, but overall there is still balanced distribution of all expected taxa. A biological assessment of an unnamed trib (-1) in Leicester (at Jones Bridge Road) conducted in 2014 found slightly impacted conditions that approached non-impact.. (DEC/DOW, BWAM/SBU, August 2016)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified. Identification of sources based on biological community composition was inconclusive. Based on surrounding land use and other knowledge of the waterbody, the most likely sources of nutrients to the waterbody are from agricultural activities and related nonpoint runoff. Salt impacts from salt mining in the region have been raised as concerns. (DEC/DOW, BWAM, August 2016)

Management Actions

No specific management actions have been identified for the waterbody. Additional sampling to verify the level of impact in this waterbody segment is needed.

Section 303(d) Listing

Beards/Bairds Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient confidence in the most recent sampling results to justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, August 2016)

Segment Description

This segment includes the entire stream and selected/smaller tribs. The waters of the stream are Class C. Tribs to the stream are also Class C. Little Beards Creek (-2) as well as larger lakes in the watershed are listed separately.

Little Beards Creek and tribs (0402-0014)

Unassessed

Waterbody Location Information

Revised: 9/25/2015

Water Index No: Ont 117- 60-2
Hydro Unit Code: Beards Creek-Genesee River (0413000305)
Water Type/Size: River/Stream 52 Miles
Description: entire stream and tribs

Water Class: C
Drainage Basin: Genesee River
Reg/County: 8/Livingston (26)

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: - - -
Suspected: Unknown Pollutants (biological impacts)
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: Unknown Source
Unconfirmed: - - -

Management Information

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

Further Details

Overview

Little Beards Creek and tribs is considered to be unassessed. A previous assessment of this waterbody indicated recreation and aquatic life to be stressed. However, that assessment was based on older and limited data and sampling to verify conditions is recommended.

Use Assessment

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

Aquatic life was previously found to experience some impacts, however due to the age of the data (more than 10 years old) additional sampling is needed to verify current conditions. (DEC/DOW, BWAM/SBU, August 2015)

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 Little Beards Creek was conducted as part of the RIBS monitoring effort in 2002.

Source Assessment

An assessment from 2001 indicated that silt/sediment loads which disrupt spawning areas of the stream were the primary concern. Lack of riparian vegetative buffers result in streambank erosion. Failing and/or inadequate on-site septic systems were also suggested as sources of pollutants. However none of these sources were verified at the time as impacting the stream. (DOW/Region 8, April 2001)

Management Actions

No specific management actions have been identified for the waterbody. Additional sampling to verify conditions in this waterbody segment is recommended.

Section 303(d) Listing

Little Beards Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, August 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C.

Lake LaGrange (0402-0008)

Unassessed

Waterbody Location Information

Revised: 9/25/2015

Water Index No: Ont 117- 60-2-P73b
Hydro Unit Code: Beards Creek-Genesee River (0413000305)
Water Type/Size: Lake/Reservoir 53.1 Acres
Description: entire lake

Water Class: A
Drainage Basin: Genesee River
Reg/County: 9/Wyoming (61)

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

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

Source(s) of Pollutant(s)

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

Management Information

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

Further Details

Overview

Lake LaGrange is considered to be unassessed. A previous assessment of this waterbody indicated that it had minor impacts to water supply use that was known to be stressed by nutrients, pesticides, and algal blooms from agriculture. However, the assessment was based on older data and sampling to verify conditions is recommended. In addition, Lake LaGrange was included on the 2002 Section 303(d) List for the eventual development of a TMDL or other restoration strategy, and has since been delisted.

Use Assessment

Lake LaGrange is a Class A waterbody, suitable as a water supply, for public bathing, general recreation use and support of aquatic life.

Water Quality Information

The previous assessment of Lake LaGrange indicated that drinking water supply use and aesthetics of Lake LaGrange (a.k.a., Lake LeRoy on USGS map) were impacted by excess periodic, seasonal algal growth. Excessive nutrient loadings, the result of surrounding agricultural activity was the primary source. In the mid-1980s Lake LaGrange was known to be discolored, foul smelling and foul tasting. The Lake was used for supply only as a last resort. A high

concentration of dairy farms along Little Beards Creek and elsewhere in the watershed contributed nutrient runoff from improper manure management and fertilizers use. In the mid-1990s, the Village of LeRoy has conducted extensive study under a 205(j) Grant, including watershed mapping, water quality monitoring, and public education.

Source Assessment

As indicated by the 2002 assessment and the research conducted by the Village of LeRoy, the most likely source of impact to the waterbody was agriculture.

Management Actions

In the mid 1990s, BMPs were implemented and successfully reduced weed growth, iron and manganese, and taste, odor, and color complaints. In addition, water treatment costs were reduced. In the previous assessment, it was noted Lake LaGrange was considered as the secondary water source for LeRoy. (DEC/DOW, Region 8 and Wyoming County WQCC, April 2001; also noted in NYSDEC Water Bulletin, August 1993)

The lake is connected to LeRoy Reservoir (P24a) in Genesee County by a pipeline that draws water from the lake to the reservoir. Many of the water quality issues affecting the lake also impact LeRoy Reservoir.

Additionally, USGS Report noted the presence of pesticides in the LeRoy Reservoir and Lake LaGrange was considered to be the secondary water source for LeRoy. (Pesticides/Metabolites in Selected Water Supplies in NYS, 1999, Report 00-4119)

Section 303(d) Listing

Lake LaGrange is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. The lake was included on the NYS 2002 Section 303(d) List of Impaired Waters but was delisted in 2004 based on a reassessment that indicated uses were supported. There is insufficient information to make a revised listing decision. (DEC/DOW, BWAM, August 2016)

Segment Description

This segment includes the total area of the entire lake. The waters of the lake are Class A.

Oatka Creek, Lower, and minor tribs (0402-0027)

Minor Impacts

Waterbody Location Information

Revised: 09/30/2016

Water Index No: Ont 117- 25 (portion 1) **Water Class:** B
Hydro Unit Code: Oatka Creek (0413000304) **Drainage Basin:** Genesee River
Water Type/Size: River/Stream 38.2 Miles **Reg/County:** 8/Monroe (28)
Description: stream and tribs fr mouth to Mud Creek

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Good
Aesthetics	Good

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: Algal/Plant Growth, Nutrients, Silt/Sediment
Suspected: Chloride/Salts
Unconfirmed: Pathogens

Source(s) of Pollutant(s)

Known: Agriculture, Streambank Erosion
Suspected: Deicing (stor/appl), Onsite/Septic Systems, Urban/Storm Runoff
Unconfirmed: Construction

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

This portion of Oatka Creek is currently assessed as having minor impacts due to aquatic life that is known to be stressed by nutrient loading and resulting algal and aquatic plant growth. Agriculture is the dominant land use in the watershed; agricultural and other nonpoint sources as well as municipal wastewater loadings are the primary source. Other nonpoint sources include streambank erosion, construction/development, inadequate on-site septic systems and urban runoff in village centers.

Use Assessment

This waterbody is a Class B waterbody, suitable for public bathing, general recreation use and support of aquatic life, but not as a water supply. Portions of this reach are also designated as a cold water (trout) fishery.

Aquatic life is evaluated as supported but stressed based on biological sampling that shows slight impacts. This sampling can also be used to infer that there may be minor impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. Additional (bacteriological) sampling is needed to more fully evaluate public bathing and other recreational uses. Habitat/hydrology conditions reflect minimal human disturbances and do not appear to limit or otherwise influence aquatic life. (DEC/DOW, BWAM/SBU, December 2014)

In spite of these impact, Oatka Creek supports one of the best trout fisheries in the state. NYSDEC stocks the stream annually and manages it as a sport fishery. (DEC/DOW, DFWMR/Region 8, January 2015)

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 Oatka Creek in Scottsville (at Route 251) was conducted as part of the RIBS biological screening effort in 2016; the Scottsville site, as well as sites in Garbutt (at Union Street) and Wheatland Center (at Wheatland Center Road) were also sampled in 2009. Sampling results reflect fair to good water quality, with conditions appearing to improve in the upstream portion of the reach. The macroinvertebrate community is altered from what is expected under natural conditions. Some expected sensitive species are not present and overall macroinvertebrate species richness is lower than expected. Some changes in community composition have occurred due to replacement of sensitive ubiquitous taxa by more tolerant taxa, but overall there is still balanced distribution of all expected taxa. In spite of these minor impacts, aquatic life is considered to be supported. Assessment of the habitat condition and any resulting influence on biology was conducted and the biological community indicates water quality reflective of minimal anthropogenic influences. A biological assessment of an unnamed trib (-1) in Scottsville (at Route 383) conducted in 2014 also found slightly impacted conditions. Big Spring Creek (-4) in Caledonia (at RR bridge below fish hatchery was sampled in 2009 and assessed as having moderate impact, likely due to the hatchery. (DEC/DOW, BWAM/SBU, August 2016)

A biological (macroinvertebrate) assessment of Oatka Creek in Churchville was conducted in 2013 as part of NYSDEC's citizen science stream monitoring program, WAVE. The macroinvertebrate community was found to be non-impacted, indicating that water quality at this location is fully supporting of aquatic life. (DEC/DOW, BWAM/WAVE, August 2016)

Previous NYSDEC Rotating Intensive Basin Studies (RIBS) monitoring of Oatka Creek in Scottsville (at State Route 251) was conducted in 1999 as part of the screening of the Genesee basin, and in 2000 as an Intensive Network site. Overall water quality at this site is good. Biological sampling results indicated non- to slightly impacted water quality conditions. Some nonpoint source nutrient enrichment and siltation are present and affect the faunal composition. While total dissolved solids and iron were elevated in the water column, and cadmium and copper were detected in the bottom sediments, no contaminants were found to be elevated over background levels in invertebrate tissues, and no significant mortality or reproductive impairment was found in the three toxicity tests conducted. (DEC/DOW, BWAR/SWAS, January 2003)

Previous monitoring conducted by Monroe County and USGS has documented elevated levels of nutrients (nitrogen compounds) in comparison to similar streams in the county. The nutrient levels in conjunction with light penetration in this shallow stream results in significant algal growth in the late spring and summer. (Genesee and Wyoming County WQCC, April 2001)

Source Assessment

Based on the biologic community composition, surrounding land use and other knowledge of the waterbody, the most likely source of impacts to the waterbody are agricultural and other nonpoint sources, and municipal wastewater contributions. The watershed includes large concentrations of agricultural lands and rural areas served by onsite wastewater (septic) systems, as well and population centers served by municipal wastewater systems. The nonpoint source impacts are exacerbated by natural geology as the Genesee River cuts through an alluvial plain with highly erodible soils.

Management Actions

NYSDEC developed an extensive watershed management plan for the Genesee River Basin. The Genesee River Basin Nine Key Element Watershed Plan for Phosphorus and Sediment (September 2015) focuses on management and reduction of phosphorus and sediment loads to Genesee River and Lake Ontario. The Plan builds on past and ongoing nonpoint source management practices throughout the basin, as well as implementation of a strategy to reduce