



Middle Allegheny River Watershed (0501000108)

Water Index Number	Waterbody Segment	Category
Pa-53 (portion 2)/P95a	Allegheny River/Reservoir (0201-0072)	Needs Verification
Pa-53 (portion 3)	Allegheny River, Main Stem (0201-0024)	Needs Verification
Pa-53- 9 thru 35 (selected)	Minor Tribs to Allegheny River (0201-0037)	No Known Impacts
Pa-53-10 thru 33 (selected)	Minor Tribs to Allegheny River (0201-0036)	No Known Impacts
Pa-53-11	Cold Spring Creek, Lower, and tribs (0201-0014)	Minor Impacts
Pa-53-11	Cold Spring Creek, Upper, and tribs (0201-0031)	No Known Impacts
Pa-53-15	Red House Brook and tribs (0201-0032)	No Known Impacts
Pa-53-15-P95b	Red House Lake (0201-0033)	Minor Impacts
Pa-53-21	Little Valley Creek, Lower, and tribs (0201-0013)	Needs Verification
Pa-53-21	Little Valley Creek, Upper, and tribs (0201-0034)	Minor Impacts
Pa-53-21-11-P97a	Linlyco/Club Pond (0201-0035)	Impaired
Pa-53-23	Salamanca Water Supply Trib, Upper (0201-0038)	No Known Impacts

Tunungwant Creek Watershed (0501000106)

Water Index Number	Waterbody Segment	Category
Pa-53-36	Tunungwant (Tuna) Creek and tribs (0201-0002)	Minor Impacts
Pa-53-36- 1 thru 12 (selected)	Minor Tribs to Tunungwant Creek, Class B (0201-0043)	Threatened

Allegheny River/Reservoir (0201-0072)

Needs Verification

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53 (portion 2)/P95a
Unit Code: 0501000108 **Class:** B
Water Type/Size: Lake 1216.6 Acres
Description: reservoir, north end to Salamanca
Drain Basin: Allegheny River
Reg/County: 9/ Cattaraugus Co. (5)

Water Quality Problem/Issue Information

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

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Unconfirmed: NUTRIENTS (phosphorus), Harmful Algal Blooms

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Unconfirmed: MUNICIPAL DISCHARGES, AGRICULTURE

Management Information

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

Further Details

Overview

This portion of Allegheny River is assessed as needing verification of impacts due to public bathing and recreational uses that may be impacted. No specific pollutants or sources have been identified, but various point and nonpoint sources in this large drainage area contribute nutrients.

Use Assessments

This waterbody is designated class B, suitable for use as a public bathing beach, general recreation use and aquatic life support, but not as a water supply.

Recreation use including public bathing is evaluated as stressed but unconfirmed. Nutrients (phosphorus), and the potential for excessive algae, poor water clarity, and harmful algal blooms are the primary concerns. Available sampling is from a site at the upper end of the reach and might not be representative of conditions throughout the reach.

The Allegheny Reservoir below this reach has documented impairment from nutrients and harmful algal blooms. Additional sampling – including bacteriological sampling to evaluate swimming use – is needed to accurately evaluate uses. (DEC/DOW, BWAM, January 2015)

There are no known restrictions to aquatic life. Aquatic life is considered to be fully supported based on biological sampling that shows non-impacted conditions. The Allegheny River and Reservoir support a warmwater fishery. Sportfish include smallmouth bass, walleye, northern pike and muskellunge, and an abundant carp population is present. (DEC/DOW, BWAM/LCI, October 2013).

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. A fish consumption advisory in the Pennsylvania portion of the Reservoir –about 8 miles downstream – recommends limiting consumption of small mouth bass to no more than 2 meals per month due to mercury levels.

Water quality monitoring by NYSDEC lakes programs focuses primarily on the support of general recreation and aquatic life, and evaluations may be limited to these uses. Additional information to evaluate water supply, public bathing and fish consumption uses is generally the responsibility of and provided by state and/or local health departments.

Water Quality Information

Biological (macroinvertebrate) assessments of The Allegheny River in Salamanca (at Route 417 and Main Streets) was conducted through the RIBS program in 2011 and 2012. Sampling results reflect good water quality. Conditions were in the slightly impacted range but approaching non-impacted. 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. Aquatic life is supported and there are no other apparent water quality impacts. (DEC/DOW, BWAM/SBU, January 2010)

Allegheny Reservoir below this reach was sampled through the NYSDEC Lake Classification and Inventory (LCI) survey in 2006 and 2007 at the open water location near the OPRHP Friends boat launch. The US Army Corps of Engineers also sampled the Reservoir in 2013 in response to reports of a blue green algae bloom from OPRHP staff that was also cited on the NYSDEC HAB notification page. These data indicate that the reservoir is best characterized as eutrophic, or highly productive. Phosphorus levels in the lake typically exceed the state guidance value of 20 ug/l and elevated chlorophyll a levels are indicative of high algae levels. Lake clarity is often restricted; with water transparency at times less than what is minimally recommended for swimming beaches. Readings of pH at times exceed the state water quality standards for protection of aquatic life; although no evidence of aquatic life impairments have been documented or reported. (DEC/DOW, BWAM/LCI, October 2013)

Source Assessments

The specific sources of phosphorus to Allegheny Reservoir have not been identified. Possible sources of nutrient loading include residential onsite wastewater treatment (septic) systems, nonpoint source runoff from agricultural activities, municipal wastewater loading from throughout the basin, groundwater transport, stormwater runoff, and internal loading (nutrient recycling). (DEC/DOW, BWAM, October 2013)

Management Actions

No specific management actions have been identified for the waterbody, although additional sampling to verify the level of impact is recommended. (DEC/DOW, BWAM, January 2015)

Section 303d Listing

Allegheny Reservoir is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. There appear to be no impacts that would justify the listing of this waterbody, but additional sampling to confirm conditions in the segment is recommended. (DEC/DOW, BWAM, January 2015)

Segment Description

This segment includes the reservoir/river from the Route 17/I-86 bridge in Cold Spring to Great Valley Creek (-25) in Salamanca. The waters of this portion of the reach are Class B from Cold Spring to Sawmill Run (-18), Class C from there to unnamed trib (-24) in Salamanca, and Class B for the remainder of the reach to Great Valley Creek. The Allegheny River/Reservoir, south segment is listed separately.

Allegheny River, Main Stem (0201-0024)

Needs Verification

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53 (portion 3) **Drain Basin:** Allegheny River
Unit Code: 0501000108 **Class:** B **Reg/County:** Upper Allegheny
Water Type/Size: River 13.3 Miles **Reg/County:** 9/ Cattaraugus Co. (5)
Description: from Salamanca to Riverside Jct

Water Quality Problem/Issue Information

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

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Unconfirmed: MUNICIPAL DISCHARGES, AGRICULTURE

Management Information

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

Further Details

Overview

This portion of Allegheny River is assessed as needing verification of impacts due to public bathing and recreational uses that may be impacted. No specific pollutants or sources have been identified, but various point and nonpoint sources in this large drainage area contribute nutrients.

Use Assessments

This waterbody is designated class B, suitable for use as a public bathing beach, general recreation use and aquatic life support, but not as a water supply.

Recreation use including public bathing is evaluated as stressed but unconfirmed. Nutrients (phosphorus), and the potential for excessive algae, poor water clarity, and harmful algal blooms are the primary concerns. The Allegheny Reservoir below this reach has documented impairment from nutrients and harmful algal blooms. Additional sampling

– including bacteriological sampling to evaluate swimming use – is needed to accurately evaluate uses. (DEC/DOW, BWAM, January 2015)

There are no known restrictions to aquatic life. Aquatic life is considered to be fully supported based on biological sampling that shows non-impacted conditions. The Allegheny River and Reservoir support a warmwater fishery. Sportfish include smallmouth bass, walleye, northern pike and muskellunge, and an abundant carp population is present. (DEC/DOW, BWAM/LCI, October 2013).

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/FWMR, Habitat, January 2014)

Water Quality Information

Biological (macroinvertebrate) assessments of The Allegheny River in Salamanca (at Route 417 and Main Streets) was conducted through the RIBS program in 2011 and 2012. Sampling results reflect good water quality. Conditions were in the slightly impacted range but approaching non-impacted. 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. Aquatic life is supported and there are no other apparent water quality impacts. (DEC/DOW, BWAM/SBU, January 2010)

Source Assessments

The specific sources of phosphorus to Allegheny River have not been identified. Possible sources of nutrient loading include nonpoint source runoff from agricultural activities, municipal wastewater loading from throughout the basin, groundwater transport, stormwater runoff, and internal loading (nutrient recycling). (DEC/DOW, BWAM, October 2013)

Management Actions

No specific management actions have been identified for the waterbody, although additional sampling to verify the level of impact is recommended. (DEC/DOW, BWAM, January 2015)

Section 303d Listing

This portion of the Allegheny River is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. There appear to be no impacts that would justify the listing of this waterbody, but additional sampling to confirm conditions in the segment is recommended. (DEC/DOW, BWAM, January 2015)

Segment Description

This segment includes the river from Great Valley Creek (-25) in Salamanca to Tunungwant Creek (-36) in Riverside Junction. The waters of this portion of the reach are Class B. Other portions of the Allegheny River are listed separately.

Minor Tribs to Allegheny River (0201-0037)

No Known Impacts

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53- 9 thru 35 (selected) **Drain Basin:** Allegheny River
Unit Code: 0501000108 **Class:** C Upper Allegheny
Water Type/Size: River 105.4 Miles **Reg/County:** 9/ Cattaraugus Co. (5)
Description: total length of selected tribs to Reservoir, from west/north

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: - - -
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

These tribs to the Allegheny River are assessed as being threatened due to aquatic life that is thought to be threatened by unspecified pollutants. Biological sampling results show slightly impacted conditions with minimal anthropogenic impacts and a community that is most similar to natural conditions. All evaluated uses are considered to be fully supported. This assessment is based on sampling conducted at one trib and is thought to be representative of the larger waterbody segment, but the assessment is noted as suspected because water quality conditions have not been verified in all tribs within the segment.

Use Assessment

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

Aquatic life is considered to be supported with minimal impacts. Biological sampling of one trib shows conditions to be in the slightly impacted range, but approaching non-impacted and with a community that is most similar to natural conditions. These sampling results 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)

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)

Biological Sampling

A biological (macroinvertebrate) assessment of Bucktooth Run in Salamanca (at Jimmerman Road) was conducted as part of the RIBS biological screening effort in 2006. 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 with a community that is most similar to natural conditions. Aquatic life is fully supported and there are no other apparent water quality impacts. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

Based on the biologic community composition, water quality is reflective of minimal anthropogenic sources. Specific sources of pollutants to these tribs have not been identified. (DEC/DOW, BWAM/SBU, January 2015)

Management Action

No specific management actions have been identified or are deemed necessary for the waterbody. Additional sampling to verify conditions in other tribs of this waterbody segment is recommended. (DEC/DOW, BRWM, December 2014)

Section 303(d) Listing

These tribs to the Allegheny River are not included on the current (2014) 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, July 2014)

Segment Description

This segment includes the total length of selected/smaller tribs entering the Allegheny Reservoir/River from the east/south from the Route 17/I-86 bridge in Cold Spring to/including unnamed trib (-35) in Riverside Junction. Tribs within this segment, including Robinson Run (-13), Meetinghouse Rune (-16), Sunfish Run (-17), Sawmill Run (-18), Bucktooth Run (-20) and Windfall Creek (-31), are Class C,C(T). Cold Spring Creek (-11), Little Valley Creek (-21) and Great Valley Creek (-25) are listed separately.

Minor Tribs to Allegheny River (0201-0036)

No Known Impacts

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53- 10 thru 33 (selected) **Drain Basin:** Allegheny River
Unit Code: 0501000108 **Class:** B Upper Allegheny
Water Type/Size: River 52.0 Miles **Reg/County:** 9/ Cattaraugus Co. (5)
Description: total length of selected tribs to Reservoir, from east/south

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Fully Supported	Unconfirmed
Recreation	Fully Supported	Suspected
Aquatic Life	Fully Supported	Suspected
Fish Consumption	Fully Supported	Unconfirmed
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: No Action Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

This tribs to Allegheny River segments is assessed as having no known impacts; all evaluated uses are considered to be fully supported. This assessment is based on sampling conducted at one tribs and is thought to be representative of the larger waterbody segment, but the assessment is noted as suspected because water quality conditions have not been verified in all tribs within the segment.

Use Assessment

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. Additional bacteriological sampling is needed to more fully evaluate other recreational and swimming use.

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 Cricks Run in Cold Spring (at Route 280) was conducted as part of the RIBS biological screening effort in 2011. 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. (DEC/DOW, BWAM/SBU, January 2010)

Source Assessment

There are no apparent sources of pollutants to the waterbody.

Management Action

No specific management actions have been identified or are deemed necessary for the waterbody. The waterbody lies within the Allegheny State Park and the NYS Office of Parks Recreation and Historic Preservation is responsible for the management of the waterbody and its watershed. (DEC/DOW, BWAM/SMAS, January 2015)

Section 303(d) Listing

This tribs to Allegheny Reservoir/River segment is not included on the current (2014) 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 2015)

Segment Description

This segment includes the total length of selected/smaller tribs entering the Allegheny Reservoir/River from the east/south from the Route 17/I-86 bridge in Cold Spring to Tunungwant Creek (-36) in Riverside Junction. Tribs within this segment, including include Pine Creek (-10) and Cricks Run (-12), are primarily Class B,B(T); short reaches of some tribs from the mouth to the Allegheny State Park boundary are designated Class C. Red House Brook (-15) and Tunungwant Creek (-36) are listed separately.

Cold Spring Creek, Lower, and tribs (0201-0014)

Minor Impacts

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53-11
Unit Code: 0501000108 **Class:** C
Water Type/Size: River 33.6 Miles
Description: stream and tribs, from mouth to Napoli

Drain Basin: Allegheny River
Reg/County: Upper Allegheny
9/ Cattaraugus Co. (5)

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s)

Known: ---
Suspected: UNKNOWN POLLUTANTS (specify/biological impacts), Nutrients (Phosphorus)
Unconfirmed: Pesticides

Source(s) of Pollutant(s)

Known: ---
Suspected: UNKNOWN SOURCE, Agriculture
Unconfirmed: ---

Management Information

Management Status: Verification of Pollutants/Causes Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

This portion of Cold Spring Creek is assessed as having minor impacts due to aquatic life that is thought to be stressed. No specific pollutant or sources have been identified, but sampling results suggest nonpoint nutrient contributions to the impacts.

Use Assessment

This portion of Cold Spring 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 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. (DEC/DOW, BWAM, February 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 Cold Spring Creek in Steamburg (at County Route 10) was conducted as part of the RIBS biological screening effort in 2006. Sampling results reflect fair to good water quality, with the macroinvertebrate community altered from what is expected under natural conditions and indications of nonpoint nutrient enrichment and possible pesticide impacts. 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. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

Based on the biologic community composition, surrounding land use and other knowledge of the waterbody, the most likely source of nutrients to the waterbody is agricultural activities, though these sources should be verified. (DEC/DOW, BWAM/SBU, January 2015)

Management Action

No specific management actions have been identified for the waterbody.

Section 303(d) Listing

Upper Cold Spring Creek is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. There appear to be no impacts that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2015)

Segment Description

This segment includes the portion of the stream and all tribs from the mouth to/including unnamed trib (-5) in Napoli. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment are Class C. Upper Cold Spring Creek is listed separately.

Cold Spring Creek, Upper, and tribs (0201-0031)

No Known Impact

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53-11
Unit Code: 0501000108 **Class:** C
Water Type/Size: River 25.2 Miles
Description: stream and tribs, above Napoli

Drain Basin: Allegheny River
Upper Allegheny
Reg/County: 9/ Cattaraugus Co. (5)

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	Poor
Aesthetics	Unknown

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

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

Management Information

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

Further Details

Overview

This portion of Cold Spring Creek is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

This portion of Cold Spring 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 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, February 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 Cold Spring Creek in Napoli (at Route 242) was conducted as part of the RIBS biological screening effort in 2011. 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. Some additional species, including sensitive non-native species, and additional biomass may be present; the samples reveal no, or only incidental, anomalies. Aquatic life community is fully supported. (DEC/DOW, BWAM/SBU, January 2015)

Habitat at the site is clearly altered by human activity, degrading the stream and surrounding riparian buffer. However aquatic life, as measured by the macroinvertebrates community, is fully supported indicating water quality is sufficiently high to overcome less than ideal habitat. The poor habitat may influence the fishery. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

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

Management Action

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

Section 303(d) Listing

Upper Cold Spring Creek is not included on the current (2014) 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, January 2015)

Segment Description

This segment includes the portion of the stream and all tribs above unnamed trib (-5) in Napoli. The waters of this portion of the stream are Class C. Tribs to this reach/segment are also Class C. Lower Cold Spring Creek is listed separately.

Red House Brook and tribs (0201-0032)

No Known Impact

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53-15
Unit Code: 0501000108 **Class:** B
Water Type/Size: River 86.9 Miles
Description: entire stream and tribs

Drain Basin: Allegheny River
Reg/County: Upper Allegheny
9/ Cattaraugus Co. (5)

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Fair
Aesthetics	Good

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

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

Management Information

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

Further Details

Overview

Red House Brook is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

Red House Brook is a Class B waterbody, suitable for public bathing, general recreation use and support of aquatic life, but not as a water supply.

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, February 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 Red House Brook in Allegany State Park (at covered bridge) was conducted as part of the RIBS biological screening effort in 2011. 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. Some additional species, including sensitive non-native species, and additional biomass may be present; the samples reveal no, or only incidental, anomalies. Aquatic life community is fully supported. (DEC/DOW, BWAM/SBU, January 2015)

Habitat at the site is somewhat altered by human activity, slightly degrading the stream and surrounding riparian buffer. However aquatic life, as measured by the macroinvertebrates community, is fully supported indicating water quality is sufficiently high to overcome less than ideal habitat. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

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

Management Action

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

Section 303(d) Listing

Red House Brook is not included on the current (2014) 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, January 2015)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are primarily Class B,B(T); a short reach from the mouth to the Allegheny State Park boundary is designated Class C. Tribs to this reach/segment, including Bay State Brook (-1), McIntosh Creek (-3) and Beeline Creek (-5), are Class B,B(T).

Red House Lake (0201-0033)

Minor Impacts

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53-15-P95b
Unit Code: 0501000108 **Class:** B
Water Type/Size: Lake 108.7 Acres
Description: total area of entire lake

Drain Basin: Allegheny River
Reg/County: Upper Allegheny
9/ Cattaraugus Co. (5)

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Fair
Aesthetics	Good

Type of Pollutant(s)

Known: HARMFUL ALGAL BLOOMS, AQUATIC INVASIVE SPECIES
Suspected: Low D.O./Oxygen Demand, Nutrients
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: HABITAT ALTERATION
Suspected: Other Source (natural low D.O.), Unknown Source
Unconfirmed: - - -

Management Information

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

Further Details

Overview

Red House Lake is assessed as having minor impacts/threats due to public bathing and general recreation that are known to be stressed/threatened by algal growth and harmful algal blooms, and invasive aquatic species. There are no specific identified sources of pollutants, although elevated nutrient loads have been documented in some tributaries.

Use Assessments

Red House Lakes is designated class B, suitable for use as for public bathing, general recreation and aquatic life support, but not as a water supply.

Recreation use and public bathing are considered to be supported but stressed by excessive algae, poor water clarity, and shoreline harmful algal blooms resulting in periodic and temporary bathing beach closures; these closures occur less than 10 days per season.. Non-contact recreation (boating, fishing) is also threatened by excessive aquatic

vegetation and the presence of invasive plant growth (Eurasian watermilfoil, curly leafed pondweed)]. Aesthetic conditions of the lake are considered to be fair due to excessive algae, shoreline algal blooms and excessive aquatic vegetation. (DEC/DOW, BWAM/LMAS, July 2013)

Aquatic life is considered to be fully supported based on assessments that show a healthy warmwater fishery. The Lake is stocked in the spring and fall with various cold water (trout) species. Water quality sampling indicates that by August there is no water in the lake that is both sufficiently cold and oxygenated enough to support trout survival, but there is no evidence that depressed deep water oxygen levels have any direct impacts to warm water fish species. DEC Fisheries Unit reports abundant populations of smallmouth and largemouth bass, northern pike, bluegill, pumpkinseed, rock bass, yellow perch and brown bullhead. (DEC/DFWMR, Region 9, March 2014)

Water quality monitoring by the Environmental Management Bureau's Water Quality Team focuses on environmental and public health of lakes that fall within the borders of New York State's Park System. Bacteriological samples are collected as part of this program, however contamination from organic compounds, metals and other inorganic pollutants are not usually collected as part of this monitoring program. The state and/or location health departments are ultimately responsible for assessing public bathing use and assessments of restrictions on fish consumption.

Water Quality Information

Water quality sampling of Red House Lake was conducted by the New York State Office of Parks, Recreation and Historic Preservation in 2000, 2001, 2003, and 2009 through 2012 as part of their routine water quality monitoring program. There are only limited data available to analyze the trophic condition of the lake, but these results indicate that the lake is best characterized as mesoeutrophic or moderately to highly productive. Chlorophyll/algal levels were not routinely measured but phosphorus levels in the lake are typically low. Lake clarity measurements indicate water transparency consistently exceeds recommended minimum criteria for swimming beaches. (DEC/DOW, BWAM/LMAS, May 2014)

The public bathing beach at Red House Lake has experienced a small number of temporary closures over the last five years. The longest closure lasted 5 days in the summer of 2010. All of the beach closures were related to concern of high bacteria levels, typically associated with heavy rains. There were no water quality related beach closures during the 2011-2013 bathing seasons (OPRHP/EMB, March 2014).

The 2012 algae bloom investigations confirmed the presence of shoreline blooms and the presence of blue green algae species (*Anabaena*) capable of producing algal toxins. However, actual algal toxin levels were below detection, and the death of a dog after recreating in the lake could not be tied to the bloom. Visual evidence of shoreline blooms typical of blue green algae blooms were also reported in 2013, but historical water quality conditions suggest that any blue green algae blooms are likely limited to small shoreline scums (DEC/DOW, BWAM/LCI, October 2013)

Source Assessments

Specific sources of pollutants to the Lake have not been identified. Nutrient samples were collected from the five streams that feed Red House Lake in 2013 and identified elevated phosphorus levels in two of the three tributaries that enter the lake from the south. Additional sampling was planned for 2014 to corroborate the 2013 data and further narrow possible sources of nutrients and algal blooms (OPRHP/EMB, March 2014).

Management Actions

No specific water quality management actions have been identified for the waterbody. The New York State Office of Parks, Recreation and Historic Preservation is responsible for the management of Red House Lake and its immediate watershed. DEC conducts trout stocking programs in the spring and fall. (DEC/DFWMR Bureau of Fisheries 2014).

Section 303(d) List Information

Red House Lake is not included on the current (2014) 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, January 2015)

Segment Description

This segment includes the entire lake.

Little Valley Creek, Lower, and tribs (0201-0013)

Needs Verification

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53-21
Unit Code: 0501000108 **Class:** C(T)
Water Type/Size: River 59.6 Miles
Description: stream and tribs, from mouth to Elkdale

Drain Basin: Allegheny River
Reg/County: Upper Allegheny
9/ Cattaraugus Co. (5)

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s)

Known: ---
Suspected: UNKNOWN POLLUTANTS (specify/biological impacts)
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: UNKNOWN SOURCE
Unconfirmed: ---

Management Information

Management Status: Verification of Problem Severity Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

This portion of Little Valley Creek is assessed as needing verification of impacts due to aquatic life that are may be stressed. Biological sampling results show slightly impacted conditions that approach the nonimpacted range with minimal anthropogenic impacts. No specific pollutant or sources have been identified, and previous sampling at this site revealed no impacts.

Use Assessment

This portion of Little Valley Creek is a Class C(T) waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply. The waterbody is also designated as a cold water (trout) fishery.

Aquatic life is evaluated as supported but stressed based on most recent biological sampling that shows slight impacts. However this evaluation should be verified because conditions are in the upper range of slight (approaching non-

impacted), no specific sources are indicated, and previous sampling at the site indicated conditions to be non-impacted. This sampling – even if slight impacts are confirmed – 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/SBU, December 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 Valley Creek in Salamanca (at Washington Street) was conducted in 2008. Sampling results reflect good water quality. Conditions were in the slightly impacted range but approaching non-impacted. 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. Aquatic life is fully supported and there are no other apparent water quality impacts. Previous sampling at this site in 2006 and in 1996 found non-impacted conditions. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

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

Management Action

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

Section 303(d) Listing

This portion of Little Valley Creek is not included on the current (2014) 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, January 2015)

Segment Description

This segment includes the portion of the stream and all tribs from the mouth to/including Dublin Hollow Creek (-4) near Elkdale. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment, including Whig Street Creek (-3) and Dublin Hollow Creek (-4) are Class C,C(T). Upper Little Valley Creek is listed separately.

Little Valley Creek, Upper, and tribs (0201-0034)

Minor Impacts

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53-21
Unit Code: 0501000108 **Class:** C(T)
Water Type/Size: River 37.5 Miles
Description: stream and tribs, above Elkdale

Drain Basin: Allegheny River
Reg/County: Upper Allegheny
9/ Cattaraugus Co. (5)

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)

Known: - - -
Suspected: UNKNOWN POLLUTANTS (biological impacts)
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: UNKNOWN SOURCE
Unconfirmed: - - -

Management Information

Management Status: Verification of Pollutants/Causes Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

This portion of Little Valley Creek is assessed as having minor impacts due to aquatic life that is known to be stressed. No specific pollutant or sources have been identified, and biological sampling results suggest conditions are consistent with natural communities.

Use Assessment

This portion of Little Valley Creek is a Class C(T) waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply. The waterbody is also designated as a cold water (trout) fishery.

Aquatic life is evaluated as supported but stressed based on most recent biological sampling that shows slight impacts. Aquatic life is considered to be supported with minimal impacts. 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, December 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 Valley Creek in Little Valley (at Route 353) was conducted as part of the RIBS biological screening effort in 2011. Sampling results reflect to fair to good water quality, with the macroinvertebrate community altered from what is expected but still showing similarity to 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. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

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

Management Action

No specific management actions have been identified or are deemed necessary for the waterbody. Additional sampling to verify the level of impact and potential pollutants in the waterbody segment is recommended.

Section 303(d) Listing

This portion of Little Valley Creek is not included on the current (2014) 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, January 2015)

Segment Description

This segment includes the portion of the stream and all tribs above Dublin Hollow Creek (-4) near Elkdale. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment are Class C. Lower Little Valley Creek is listed separately.

Linlyco/Club Pond (0201-0035)

Impaired

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53-21-11-P97a
Unit Code: 0501000108 **Class:** B(T)
Water Type/Size: Lake 11.5 Acres
Description: total area of entire lake

Drain Basin: Allegheny River
Reg/County: Upper Allegheny
9/ Cattaraugus Co. (5)

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Fair
Aesthetics	Fair

Type of Pollutant(s)

Known: NUTRIENTS (Phosphorus), HARMFUL ALGAL BLOOMS, ALGAL/PLANT GROWTH, Aquatic Invasive Species
Suspected: Low D.O./Oxygen Demand
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: UNKNOWN SOURCE, Habitat Alteration
Unconfirmed: Agriculture, Onsite/Septic Systems

Management Information

Management Status: Verification of Sources Needed
Lead Agency/Office: DOW/Reg9
IR/305(b) Code: Impaired Water Requiring a TMDL (IR Category 5)

Further Details

Overview

Linlyco/Club Pond is assessed as an impaired waterbody due to recreational uses and public bathing that are known to be impaired/stressed by elevated nutrients, high algal levels and poor water clarity. No specific sources of the pollutants have been identified, but onsite septic systems and agricultural activities are possible sources of nutrients. Aquatic invasive species also impact recreational use.

Use Assessment

Linlyco/Club Pond is a Class B(T) waterbody, suitable for use as a public bathing beach, general recreation and support of aquatic life, but not as a water supply. The waterbody is also designated as a cold water (trout) fishery.

Recreation use and public bathing are considered to be impaired/stressed by elevated nutrients (phosphorus), excessive algae, poor water clarity, and shoreline harmful algal blooms. Additional bacteriological sampling is needed to more fully evaluate the impact of pathogen levels on public bathing (swimming) use. Non-contact recreation (boating, fishing) is also affected by the presence of invasive plant growth (Eurasian watermilfoil, curly leafed pondweed). Aesthetic conditions of the lake are considered to be poor due to excessive algae, shoreline algal blooms and excessive aquatic vegetation. (DEC/DOW, BWAM/LMAS, July 2013)

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

Water quality sampling of Linlyco/Club Pond has been conducted through the NYSDEC Lake Classification and Inventory (LCI) Program in 2011 and 2012. Results of this sampling indicate the lake is best characterized as hyper-eutrophic, or very highly productive. Chlorophyll/algal levels are consistently above criteria corresponding to impaired recreational uses, while phosphorus concentrations are typically very high. Lake clarity measurements indicate water transparency typically fail to meet the recommended minimum criteria for swimming beaches. Readings of pH and dissolved oxygen typically fall within the range established in state water quality standards for protection of aquatic life. (DEC/DOW, BWAM/LMAS, May 2014)

In 2011 a blue-green algae bloom observed. A sample from the bloom showed that a toxin producing algae (Anabaena) was present in the sample, but that the toxin concentration was below the existing guidelines for protecting swimming. (DEC/DOW, BWAM/LMAS, May 2014)

Source Assessment

Specific sources of pollutants to the Lake have not been identified. Based on surrounding land use and other knowledge of the waterbody, possible sources of nutrients to the waterbody is/are onsite wastewater treatment (septic) systems service seasonal and year-round residences on along the northern and southern shorelines, and agricultural activity in the upper lake watershed.

Management Action

No specific management actions have been identified for the waterbody. The Lake is included on the Section 303(d) List for eventual development of a TMDL or other restoration strategy (see below). A range of general best management practices and other recommendations to restore and protect water quality in all lakes is outlined in the NYSDEC manual Diet for a Small Lake (NYSDEC/FOLA, 2009).

Section 303(d) Listing

Linlyco/Club Pond is included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. The waterbody is included on Part 1 of the List as an impaired waterbody requiring development of a TMDL for phosphorus. This waterbody was first listed on the 2014 List. (DEC/DOW, BWAM/WQAS, January 2015)

Segment Description

This segment includes the total area of the entire lake.

Salamanca Water Supply Trib, Upper (0201-0038) No Known Impacts

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53-23 **Drain Basin:** Allegheny River
Unit Code: 0501000108 **Class:** C(T) Upper Allegheny
Water Type/Size: River 37.5 Miles **Reg/County:** 9/ Cattaraugus Co. (5)
Description: stream and tribs, above Elkdale

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Poor
Aesthetics	Unknown

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

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

Management Information

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

Further Details

Overview

This waterbody, also known as Newton Run, is assessed as having no known impacts; all evaluated uses are considered to be fully supported. This assessment is based on sampling conducted at a site below the actual segment but is considered to be representative of the upstream] waterbody segment.

Use Assessment

This waterbody segment is a Class AA waterbody, suitable for use as a water supply, public bathing beach, general recreation and support of aquatic life. The waterbody is believed to be a backup supply for Salamanca and is not currently in use, but this needs to be confirmed.

The waterbody is no longer used as an active water supply; City of Salamanca switched to groundwater sources. Consequently there is no current evaluation of the stream for water supply use. The stream is considered to fully support water supply use, based on other water quality indicators. (DEC/DOW, BWAM, January 2015)

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. Additional bacteriological sampling is also needed to more fully evaluate other recreational and swimming use. (DEC/DOW, BWAM, 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 Newton Run in Salamanca (at East State Street) was conducted as part of the RIBS biological screening effort in 2011. 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. This site is downstream of the specific waterbody segment, but is considered to be representative of upstream conditions. (DEC/DOW, BWAM/SBU, January 2015)

Habitat at the site is significantly altered by human activity, degrading the stream and surrounding riparian buffer. However aquatic life, as measured by the macroinvertebrates community, is fully supported indicating water quality is sufficiently high to overcome less than ideal habitat. The poor habitat may influence the fishery. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

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

Management Action

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

Section 303(d) Listing

This waterbody is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts that would justify the listing of this waterbody. (DEC/DOW, BWAM, January 2015)

Segment Description

This segment includes the portion of the stream and all tribs from the southern property line of the Salamanca City Waterworks. The waters of this portion of the stream are Class AA.

Tunungwant (Tuna) Creek and tribs (0201-0002)

Minor Impacts

Waterbody Location Information

Revised: 04/01/2016

Water Index No: Pa-53-36
Hydro Unit Code: Tunungwant Creek (0501000106)
Water Type/Size: River/Stream 47.8 Miles
Description: entire stream and minor tribs

Water Class: C
Drainage Basin: Allegheny River
Reg/County: 9/Cattaraugus (5)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

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

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s)

Known: ---
Suspected: UNKNOWN POLLUTANTS (BIOLOGICAL IMPACTS), Oil and Grease
Unconfirmed: Unknown Toxicity

Source(s) of Pollutant(s)

Known: ---
Suspected: UNKNOWN SOURCE
Unconfirmed: On-Site/Septic Syst, Other Non-Permitted Sanitary Disch

Management Information

Management Status: Verification of Pollutant/Cause Needed
Lead Agency/Office: DOW/Reg9
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Tunungwant (Tuna) Creek is assessed as a waterbody having minor impacts – that may rise to the level of impairment due to aquatic life that is thought to be impaired. Biological results continue to fluctuate between slightly and moderately impacted conditions at an upstream site; a downstream site has showed steady improvement of 20 years of sampling and most recently reflects good water quality. No specific pollutant or sources have been identified at the upstream site, but wastewater impacts (municipal discharge, non-permitted discharges, and or on-site system impacts) and oil production/industrial activities are possible contributors to the impacts. Additional investigation should focus on pollutants and sources of impact, since it is not certain that further monitoring to assess the level of impact would be conclusive.

Use Assessment

Tunungwant 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 at least stressed and at time impaired based on biological sampling that shows impacts in portions of the stream that fluctuate between slightly and moderately impacted. This sampling can also be used to infer that there may also be some – perhaps significant – impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC/DOW, BWAM/SBU, December 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 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

Biological (macroinvertebrate) assessments of Tunungwant Creek above Irvine Mills (at South Carolton Road) and in Limestone (at Limestone Run Road) have been conducted as part of the RIBS sampling effort a number of times since 1996. Recent sampling results (2011, 2006) at the downstream Irvine Mills site reflect good water quality. Conditions were in the slightly impacted range but approaching non-impacted. 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. Aquatic life is fully supported and there are no other apparent water quality impacts at this site. Sampling results at the upstream (Limestone) site reflect fair to poor water quality, with sensitive taxa reduced, and the distribution of major taxonomic groups significantly different from what is naturally expected. Samples collected in 2007 and 1995 reveal moderate impacts, while 2001, 1996 and 1990 samples found slightly impacted conditions. It is not clear the additional sampling would be more conclusive as conditions appear to hover around the slight-moderate threshold. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified. Based on surrounding land use and other knowledge of the waterbody, possible sources of pollutants to the waterbody are residential wastewater, or oil production and related industrial activity. But further assessment to confirm sources is needed. (DEC/DOW, BWAM and Region 9, February 2015)

Management Actions

No specific management actions have been identified for the waterbody. Verification of pollutants and sources is necessary to determine appropriate next action. (DEC/DOW, BWAM and Region 9, February 2015)

Section 303(d) Listing

Tunungwant 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. Tunungwant (Tuna) Creek and Tribs was originally listed in 2014 and delisted in 2016 due to reassessment indicating uses are fully supporting. (DEC/DOW, BWAM/WQAS, April 2016)

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, including Bailey Brook (-4), Leonard Brook (-5), Nichol Run (-10) and State Line Brook (-15), are Class C,C(T). Class B tribs within Allegheny State Park, including Rice Brook (-3) and Limestone Brook (-9), are listed separately.

Minor Tribs to Tunungwant Creek, Class B (0201-0043)

Threatened

Waterbody Location Information

Revised: 02/01/2015

Water Index No: Pa-53- 1 thru 12 (selected) **Drain Basin:** Allegheny River
Unit Code: 0501000106 **Class:** B Upper Allegheny
Water Type/Size: River 35.7 Miles **Reg/County:** 9/ Cattaraugus Co. (5)
Description: total length on selected tribs within State Park

Water Quality Problem/Issue Information

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

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Good

Type of Pollutant(s)

Known: - - -
Suspected: UNKNOWN POLLUTANTS (biological impacts)
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: UNKNOWN SOURCE
Unconfirmed: - - -

Management Information

Management Status: Verification of Pollutants/Causes Needed
Lead Agency/Office: ext/PRHP
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

This waterbody is assessed as being threatened due to aquatic life that is thought to be threatened by unspecified pollutants. Biological sampling results show slightly impacted conditions that approach the nonimpacted range with minimal anthropogenic impacts and with a community that is most similar to natural conditions.

Use Assessment

These tribs are Class B, suitable for use as a public bathing beach, general recreation and support of aquatic life, but not as a water supply.

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 are no significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. Additional bacteriological 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 Rice Brook in Limestone (at Parkside Drive) was conducted as part of the RIBS biological screening effort in 2006. Sampling results reflect good water quality. Conditions were in the slightly impacted range but approaching non-impacted and communities were most similar 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. Aquatic life is fully supported and there are no other apparent water quality impacts. This waterbody is thought to be representative of waters in this multiple-stream segment, but additional sampling on other tribs may be appropriate to verify this. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

Specific sources of pollutants to Rice Brook or other tribs of this waterbody have not been identified.

Management Action

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

Section 303(d) Listing

This waterbody is not included on the current (2014) 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, January 2015)

Segment Description

This segment includes the total length of selected/smaller tribs to Tunungwant Creek within the Allegheny State Park boundary. Tribs within this segment, including Rice Brook (-3) and Limestone Brook (-9), are primarily Class B,B(T); the lower reach of Limestone Brook is Class C.