



Cattaraugus Creek (0412010202)

Water Index Number	Waterbody Segment	Category
Ont 158..E-23 (portion 1)	Cattaraugus Cr, Lower, Main Stem (0104-0029)	MinorImpacts
Ont 158..E-23 (portion 2)	CattaraugusCr, Middle, Main Stem (0104-0053)	NoKnownImpct
Ont 158..E-23 (portion 3)	CattaraugusCr, Middle, Main Stem (0104-0025)	NoKnownImpct
Ont 158..E-23- 1 thru 18 (selected)	Minor Tribs to Cattaraugus Creek (0104-0073)	NoKnownImpct
Ont 158..E-23- 6	Clear Creek, Lower, and tribs (0104-0024)	NoKnownImpct
Ont 158..E-23- 6	Clear Creek, Upper, and tribs (0104-0054)	NoKnownImpct
Ont 158..E-23- 6-4	North Branch Clear Cr, Lower, and tribs(0104-0055)	NoKnownImpct
Ont 158..E-23- 6-4	North Branch Clear Cr, Upper, and tribs (0104-0056)	UnAssessed
Ont 158..E-23- 6-P100	Clear Lake (0104-0057)	MinorImpacts
Ont 158..E-23-19	Point Peter Brook, Upper, and tribs (0104-0003)	NoKnownImpct
Ont 158..E-23-19 thru 31 (selected)	Minor Tribs to Cattaraugus Creek (0104-0074)	NoKnownImpct
Ont 158..E-23-20	South Br. Cattaraugus, Lower, and tribs (0104-0006)	NoKnownImpct
Ont 158..E-23-20	South Br. Cattaraugus, Upper, and tribs(0104-0058)	NoKnownImpct
Ont 158..E-23-20-11	Mansfield Creek and tribs (0104-0059)	NoKnownImpct
Ont 158..E-23-20-P??	Rainbow, Timber Lakes (0104-0060)	MinorImpacts

Cattaraugus Cr, Lower, Main Stem (0104-0029)

MinorImpacts

Waterbody Location Information

Revised: 06/01/2010

Water Index No: Ont 158..E-23 (portion 1) **Drain Basin:** Lake Erie-Niagara River
Hydro Unit Code: 04120102/030 **Str Class:** B(T) Cattaraugus Creek
Waterbody Type: River **Reg/County:** 9/Erie Co. (15)
Waterbody Size: 10.0 Miles **Quad Map:** FARNHAM (K-04-3)
Seg Description: stream and selected tribs, from mouth to Iroquois

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Habitat/Hydrology	Stressed	Suspected

Type of Pollutant(s)

Known: ---
Suspected: SILT/SEDIMENT
Possible: Nutrients

Source(s) of Pollutant(s)

Known: ---
Suspected: STREAMBANK EROSION
Possible: Agriculture

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: ext/WQCC
TMDL/303d Status: n/a

Resolution Potential: Medium

Further Details

Overview

Natural resources (fishery) habitat are thought to be affected by silt/sediment loadings and other nonpoint inputs. Streambank erosion and agricultural activities are the primary sources. As is the case in much of the Cattaraugus Creek watershed, elevated silt and sediment loads in the creek are common and can impact aquatic habitat and recreational uses to some degree. However, much of the sediment loading is considered to be natural, a result of highly erodible soils throughout the basin. Cattaraugus Creek is stocked with trout and salmon and experiences significant migratory runs of these species.

Water Quality Sampling

NYSDEC Rotating Integrated Basin Studies (RIBS) Intensive Network monitoring of Cattaraugus Creek in Irving, Chautauqua County, (at Route 5/20) was conducted in 2005 and 2006. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, toxicity testing, sediment assessment and macroinvertebrate tissue analysis. Biological (macroinvertebrate) sampling indicated non-impacted conditions. 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. Water column chemistry indicates only iron to be present at levels that constitute a parameter of concern. However, iron is considered to be naturally occurring and not a source of water quality impacts.

Toxicity testing using water from this location detected no significant mortality or reproductive effects on the test organism. Sediment screening for acute toxicity indicated some possible sediment toxicity and no porewater toxicity was indicated. Bottom sediments analysis based on sediment quality guidelines developed for freshwater ecosystems revealed overall sediment quality is not likely to cause chronic toxicity to sediment-dwelling organisms. Based on the consensus of these established assessment indicators, overall water quality at this site shows that aquatic life and recreational uses are considered to be fully supported in the stream, and there are no other apparent water quality impacts to recreational uses. (DEC/DOW, BWAM/RIBS, June 2010)

These results are consistent with results from sampling conducted at this site in 2000 and 2001. Biological sampling varied from slightly to non-impacted. Water column sampling revealed iron to be the only parameter of concern. Toxicity testing of the water column showed no significant mortality or reproductive impacts. Bottom sediment sampling results revealed elevated levels of some metals and PAHs. (DEC/DOW, BWAR/RIBS, January 2005)

Segment Description

This segment includes the portion of the stream from the mouth to the Gowanda State Hospital outfall near Iroquois. The waters of this portion of the stream are Class B(T).

Cattaraugus Cr, Middle, Main Stem (0104-0053)

NoKnownImpct

Waterbody Location Information

Revised: 05/12/2003

Water Index No: Ont 158..E-23 (portion 2) **Drain Basin:** Lake Erie-Niagara River
Hydro Unit Code: 04120102/030 **Str Class:** C(T) Cattaraugus Creek
Waterbody Type: River **Reg/County:** 9/Erie Co. (15)
Waterbody Size: 9.1 Miles **Quad Map:** NORTH COLLINS (K-05-4)
Seg Description: stream and tribs, from Iroquois to Gowanda

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

A biological (macroinvertebrate) assessment of Cattaraugus Creek in Gowanda (at Route 39) was conducted in 2000. Sampling results indicated non-impacted water quality conditions, although some nutrient enrichment and siltation were present. Conditions at this site appear similar to those sampled in 1988. Despite these conditions, aquatic life is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAR/SBU, April 2003)

A 1994 biological survey found no impact at a site in Versailles (at Versailles Plank Road), and slight impact at the Gowanda site. Significant improvements were noted when compared to results of a 1976 survey. Most of these improvements were attributed to upgrades of WWTPs and reduction/elimination of industrial discharges. (Cattaraugus Creek Biological Assessment Report, Bode et al, May 1995)

Segment Description

This segment includes the portion of the stream from the Gowanda State Hospital outfall near Iroquois to an extension of the southern boundary of Gowanda Village. The waters of this portion of the stream are Class C(T).

Cattaraugus Cr, Middle, Main Stem (0104-0025)

NoKnownImpct

Waterbody Location Information

Revised: 05/12/2003

Water Index No: Ont 158..E-23 (portion 3) **Drain Basin:** Lake Erie-Niagara River
Hydro Unit Code: 04120102/030 **Str Class:** B Cattaraugus Creek
Waterbody Type: River **Reg/County:** 9/Erie Co. (15)
Waterbody Size: 21.8 Miles **Quad Map:** COLLINS CENTER (L-05-2)
Seg Description: stream and selected tribs, fr Gowanda to Springville

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

Biological (macroinvertebrate) assessments of Cattaraugus Creek in Gowanda (at Route 39) and Springville (at Route 240) were conducted in 2000. These sites are located at either end of the segment. Sampling results indicated non-impacted water quality conditions at Gowanda and slightly impacted conditions in Springville. Although water quality in the creek and this segment was determined to range from good to very good, nutrient enrichment and siltation were present. Despite these conditions, aquatic life is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAR/SBU, April 2003)

A 1994 biological survey found slight impacts at sites in Gowanda, Zoar Valley and Scoby Bridge. Significant improvements were noted when compared to results of a 1976 survey. Most of these improvements were attributed to upgrades of WWTPs and reduction/elimination of industrial discharges. (Cattaraugus Creek Biological Assessment Report, Bode et al, May 1995)

Segment Description

This segment includes the portion of the stream and selected/smaller tribs from an extension of the southern boundary of Gowanda Village to Spring Brook (-32) near Springville. The waters of this portion of the stream are Class B.

Minor Tribs to Cattaraugus Creek (0104-0073)

NoKnownImpct

Waterbody Location Information

Revised: 05/05/2010

Water Index No: Ont 158..E-23- 1 thru 18 (selected) **Drain Basin:** Lake Erie-Niagara River
Hydro Unit Code: 04120102/030 **Str Class:** C Cattaraugus Creek
Waterbody Type: River (Low Flow) **Reg/County:** 9/Erie Co. (15)
Waterbody Size: 151.4 Miles **Quad Map:** FARNHAM (K-04-3)
Seg Description: total length of selected tribs, from mouth to Gowanda

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

A biological (macroinvertebrate) assessment of Big Indian Creek in Perrysburg (at Wardtown Road) was conducted as part of the RIBS biological screening effort in 2005. Sampling results indicated the upper range of slightly impacted conditions. In such samples the community is slightly altered from natural conditions. Some sensitive species are not present and the overall abundance of macroinvertebrates is lower. However, the effects on the fauna appear to be (relatively) insignificant and water quality is considered to be good. The nutrient biotic index and impact source determination indicate low/some enrichment in the stream and fauna that is most similar to natural communities influenced by nonpoint sources. Aquatic life support is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses). (DEC/DOW, BWAM/SBU, May 2010)

Though Big Indian Creek is just one of several streams that make up this waterbody segment, it is considered representative of water quality in the segment as a whole. This segment is listed as being evaluated rather than monitored.

Segment Description

This segment includes the total length of selected/smaller tribs to Cattaraugus Creek from the mouth to an extension of the southern boundary of Gowanda Village. Tribs within this reach/segment, including Big Indian Creek (-5), Little Indian Creek (-9), Thatcher Brook (-17) and Grannis Brook (-18), are primarily Class C,C(TS); with a portion of Thatcher Brook

designated B(T). Clear Creek (-6) is listed separately.

Clear Creek, Lower, and tribs (0104-0024)

NoKnownImpct

Waterbody Location Information

Revised: 06/01/2010

Water Index No: Ont 158..E-23- 6
Hydro Unit Code: 04120102/030 **Str Class:** C(TS)
Waterbody Type: River
Waterbody Size: 11.4 Miles
Seg Description: stream and tribs, from mouth to Taylor Hollow

Drain Basin: Lake Erie-Niagara River
Cattaraugus Creek
Reg/County: 9/Erie Co. (15)
Quad Map: NORTH COLLINS (K-05-4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

NYSDEC Rotating Integrated Basin Studies (RIBS) Intensive Network monitoring of Clear Creek in Iroquois, Erie County, (at Route 438) was conducted in 2005 and 2006. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, toxicity testing, sediment assessment and macroinvertebrate tissue analysis. Biological (macroinvertebrate) sampling indicated only slightly impacted conditions. In such samples the community is slightly altered from natural conditions. Some sensitive species are not present and the overall abundance of macroinvertebrates is somewhat lower. However, the effects on the fauna appear to be relatively insignificant and water quality is considered to be good. The nutrient biotic index and impact source determination indicate low enrichment in the stream and fauna that is most similar to natural communities influenced by impoundment effects. Water column chemistry indicates no contaminants to be present at levels that constitute parameters of concern. Toxicity testing using water from this location detected no significant mortality or reproductive effects on the test organism. Sediment screening for acute toxicity indicated no sediment toxicity and no porewater toxicity was indicated. Bottom sediments analysis based on sediment quality guidelines developed for freshwater ecosystems revealed overall sediment quality is not likely to cause chronic toxicity to sediment-dwelling organisms. Based on the consensus of these established assessment indicators, overall water quality at this site shows that aquatic life and recreational uses are considered to be fully supported in the stream, and there are no other apparent water quality impacts to recreational uses). (DEC/DOW, BWAM/RIBS, January 2010)

These results are consistent with results from this site during sampling in 2000. Field sampling results at that time indicated slightly impacted water quality conditions, however lab analysis of the sample found the site to be non-impacted. (DEC/DOW, BWAR/SBU, April 2003)

A 1994 biological survey also found non-impacted condition at the Clear Creek site. Improvements were noted when compared to results of a 1976 survey. (Cattaraugus Creek Biological Assessment Report, Bode et al, May 1995)

Segment Description

This segment includes the portion of the stream and all tribs from the mouth to North Branch Clear Creek (-4) near Taylor Hollow. The waters of this reach/segment are Class C(TS). Tribs to the reach/segment are Class C. North Branch Clear Creek (-4) is listed separately.

Clear Creek, Upper, and tribs (0104-0054)

NoKnownImpct

Waterbody Location Information

Revised: 05/05/2010

Water Index No: Ont 158..E-23- 6
Hydro Unit Code: 04120102/030 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 97.5 Miles
Seg Description: stream and tribs, above Taylor Hollow

Drain Basin: Lake Erie-Niagara River
Cattaraugus Creek
Reg/County: 9/Erie Co. (15)
Quad Map: NORTH COLLINS (K-05-4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

A biological (macroinvertebrate) assessment of Clear Creek in Collins (at Route 62) was conducted as part of the RIBS biological screening effort in 2005. Sampling results indicated the upper range of slightly impacted conditions. In such samples the community is slightly altered from natural conditions. Some sensitive species are not present and the overall abundance of macroinvertebrates is lower. However, the effects on the fauna appear to be relatively insignificant and water quality is considered to be good. The nutrient biotic index and impact source determination indicate some enrichment in the stream and fauna that is most similar to natural communities, with some nonpoint source influences. Aquatic life support is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAM/SBU, May 2010)

Segment Description

This segment includes the portion of the stream and all tribs above North Branch Clear Creek (-4) near Taylor Hollow. The waters of this reach/segment are Class C(T),C(TS). Tribs to the reach/segment are Class C,C(T). North Branch Clear Creek (-4) is listed separately.

North Branch Clear Cr, Lower, and tribs (0104-0055) NoKnownImpct

Waterbody Location Information

Revised: 11/06/2009

Water Index No: Ont 158..E-23- 6-4
Hydro Unit Code: 04120102/030 **Str Class:** C
Waterbody Type: River
Waterbody Size: 34.8 Miles
Seg Description: stream and tribs, from mouth to Clear Lake

Drain Basin: Lake Erie-Niagara River
Cattaraugus Creek
Reg/County: 9/Erie Co. (15)
Quad Map: NORTH COLLINS (K-05-4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

A biological (macroinvertebrate) assessment of North Branch Clear Creek in North Collins (at Jennings Road) was conducted as part of the RIBS biological screening effort in 2005. Sampling results indicated non-impacted conditions. 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, November 2009)

A biological sample was also collected farther upstream in Marshfield (at Marshfield Road) in 2005. This sample showed slight to moderate impacts, however the site had poor sampling habitat, very low flow and impoundment influences all of which affect the assessment. The downstream site is considered to be more reflective of actual water quality. (DEC/DOW, BWAM/SBU, November 2009)

A biological (macroinvertebrate) assessment of North Branch Clear Creek in Taylor Hollow was conducted in 2000. Field sampling results at this site indicated non-impacted water quality conditions. The sample satisfied field screening criteria and was returned to the stream. (DEC/DOW, BWAR/SBU, April 2003)

Previous Assessment

Concern had been raised during previous assessment effort (2000) regarding the impact of inadequate on-site wastewater systems serving about 20 homes in the hamlet of Lawtons. The local Health Department investigated numerous complaints and found that poorly maintained residential septic tanks were discharging to a collection system and then to a treatment lagoon. The poorly maintain septic tanks resulted in overloading to and poor performance at the lagoon. Many of the septic tanks have since been replaced and performance has improved. There have been no recent complaints. (Erie County Health, November 2009)

Segment Description

This segment includes the portion of the stream and all tribs from the mouth to Clear Lake (P100). The waters of this reach/segment are Class C,C(TS). Tribs to the reach/segment are Class C.

Clear Lake (0104-0057)

Minor Impacts

Waterbody Location Information

Revised: 09/22/2010

Water Index No: Ont 158..E-23- 6-P100
Hydro Unit Code: 04120102/030 **Str Class:** A
Waterbody Type: Lake
Waterbody Size: 47.5 Acres
Seg Description: entire lake

Drain Basin: Lake Erie-Niagara River
Cattaraugus Creek
Reg/County: 9/Erie Co. (15)
Quad Map: LANGFORD (K-05-3)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Water Supply	Threatened	Possible
Aquatic Life	Stressed	Suspected
Recreation	Stressed	Suspected

Type of Pollutant(s)

Known: NUTRIENTS (phosphorus), SILT/SEDIMENT
Suspected: D.O./OXYGEN DEMAND
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: AGRICULTURE, STREAMBANK EROSION
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 3 (Cause Identified, Source Unknown)
Lead Agency/Office: ext/WQCC
TMDL/303d Status: n/a, B

Resolution Potential: Medium

Further Details

Overview

Drinking water supply, public bathing, and recreational (fishing, boating) uses in Clear Lake are thought to experience minor impacts due to elevated nutrient levels and low water clarity. Sources of nutrients and silt/sediment are thought to be nonpoint runoff from agricultural activities in the surrounding watershed.

Source (Drinking) Water Assessment

A source water assessment of Clear Lake found an elevated susceptibility to contamination due to the amount of agricultural lands in the assessment area. No permitted discharges are found in the assessment area and there are no noteworthy contamination threats associated with other discrete contaminant sources. This level of susceptibility is typical of many water supplies that experience no impacts to water supply use and reflects the need to protect the resource. This assessment was conducted through the NYSDOH Source Waters Assessment Program (SWAP) which compiles, organizes, and evaluates information regarding possible and actual threats to the quality of public water supply (PWS) sources. The information contained in SWAP assessment reports assists in the oversight and protection of public water systems. It is important to note that SWAP reports estimate the potential for untreated drinking water sources to be impacted by contamination and do not address the quality of treated finished potable tap water. This water supply source provides

water to the Collins Correctional Facility. (NYSDOH, Source Water Assessment Program, 2005)

Although there are no specific water quality impacts, the segment is considered a highly valued water resource due to its drinking water supply classification and the need to provide additional protection, which may result in an assessment of threatened (possible) for drinking water use. But in spite of this possible threat, it is appropriate to consider the waterbody to have No Known Impacts. (DEC/DOW, BWAM/WQAS, May 2010)

Water Quality Sampling

Clear Lake was included in the 2001 Lake Classification and Inventory study effort. Results of this study indicate elevated phosphorus levels and low water clarity readings significant enough to impact uses. The bottom of the reservoir (below 5 meters) was found to be anoxic and enriched with extremely high levels of nutrients. However, there was insufficient data to fully evaluate the impact of these conditions on the drinking water supply use. (DEC/DOW, BWM/Lake Services, April 2003)

Section 303(d) Listing

Clear Lake is included on the NYS 2010 Section 303(d) List of Impaired Waters. The lakes are included among the waters listed in Appendix B - Waters Not Meeting Dissolved Oxygen Standards. This part of the List recognizes waterbodies where low dissolved oxygen in lake bottom waters may be the result of morphology and other natural conditions in thermally stratified lakes. However because NYS water quality standards for dissolved oxygen do not include an explicit exception for natural conditions or averaging of dissolved oxygen over lake depth, USEPA requires that the Section 303(d) List recognize such waters. (DEC/DOW, BWAM/WQAS, August 2010)

Point Peter Brook, Upper, and tribs (0104-0003)

NoKnownImpct

Waterbody Location Information

Revised: 05/05/2010

Water Index No: Ont 158..E-23-19
Hydro Unit Code: 04120102/030 **Str Class:** A(T)
Waterbody Type: River
Waterbody Size: 14.9 Miles
Seg Description: stream and tribs, above reservoir dam

Drain Basin: Lake Erie-Niagara River
Cattaraugus Creek
Reg/County: 9/Cattaraugu Co. (5)
Quad Map: GOWANDA (L-05-1)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Water Supply	Threatened	Possible

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: SILT/SEDIMENT

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: STREAMBANK EROSION

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** High
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

A biological (macroinvertebrate) assessment of Point Peter Brook in Gowanda (at Point Peter Road, above WTP) was conducted as part of the RIBS biological screening effort in 2005. Sampling results indicated non-impacted conditions. 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 2010)

Source (Drinking) Water Assessment

A source water assessment of Point Peter Brook found elevated susceptibility to contamination. This level of susceptibility is typical of many water supplies that experience no impacts to water supply use and reflects the need to protect the resource. This assessment was conducted through the NYSDOH Source Waters Assessment Program (SWAP) which compiles, organizes, and evaluates information regarding possible and actual threats to the quality of public water supply (PWS) sources. The information contained in SWAP assessment reports assists in the oversight and protection of public water systems. It is important to note that SWAP reports estimate the potential for untreated drinking water sources to be impacted by contamination and do not address the quality of treated finished potable tap water. This water supply source provides water to the Village of Gowanda. (NYSDOH, Source Water Assessment Program, 2005)

Although there are no specific water quality impacts, the segment is considered a highly valued water resource due to its drinking water supply classification and the need to provide additional protection, which may result in an assessment of threatened (possible) for drinking water use. But in spite of this possible threat, it is appropriate to consider the waterbody to have No Known Impacts. (DEC/DOW, BWAM/WQAS, May 2010)

Water Quality Management

Fine-grained silt/sediment from naturally occurring streambank erosion had been previously noted as a concern that at times required additional attention at water treatment plant. However concurrent with recent water treatment plant upgrades, improvements were also made in the watershed upstream of the reservoir. Velocity control structures were installed. Valley slopes were modified to minimize erosion. Also, during periods of high stream flow and turbidity, stream flow can now be diverted around the reservoir - minimizing impacts on the water supply. (Cattaraugus County WQCC/SWCD, 1996)

Segment Description

This segment includes the portion of the stream and all tribs to and above the Point Peter Reservoir (P104a) dam. The waters of this reach/segment are Class A(T). Tribs to the reach/segment, including Allen Springs (-1), are Class A.

Minor Tribs to Cattaraugus Creek (0104-0074)

NoKnownImpct

Waterbody Location Information

Revised: 05/12/2010

Water Index No: Ont 158..E-23-19 thru 31 (selected) **Drain Basin:** Lake Erie-Niagara River
Hydro Unit Code: 04120102/030 **Str Class:** C Cattaraugus Creek
Waterbody Type: River (Low Flow) **Reg/County:** 9/Erie Co. (15)
Waterbody Size: 131.0 Miles **Quad Map:** COLLINS CENTER (L-05-2)
Seg Description: total length of select tribs, fr Gowanda to Springville

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

A biological (macroinvertebrate) assessment of Waterman Brook in East Otto (at North Otto Road) was conducted as part of the RIBS biological screening effort in 2005. Sampling results indicated non-impacted conditions. 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 2010)

A biological assessment of Spooner Creek near Springville was also conducted in 2000. Field sampling results suggested slightly impacted water quality conditions, however laboratory analysis indicated non-impacted conditions. Clean-water mayflies, stoneflies and caddisflies were numerous, although some nonpoint source nutrient enrichment was also indicated.

Despite these conditions, aquatic life is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAR/SBU, April 2003)

Though Waterman Brook and Spooner Creek are just two of several streams that make up this waterbody segment, they are considered representative of water quality in the segment as a whole. This segment is listed as being evaluated rather than monitored. (DEC/DOW, BWAM/WQAS, May 2010)

Segment Description

This segment includes the total length of selected/smaller tribs to Cattaraugus Creek from an extension of the southern boundary of Gowanda Village to Spring Brook (-32) near Springville. Tribs within this reach/segment, including Lower Point Peter Brook (-19), Waterman Brook (-21), Utley Brook (-23), Kelly Brook (-24), Coon Brook (-25), Derby Brook (-28), Spooner Creek (-30), are Class B,B(T),B(TS),C,C(T),C(TS). Upper Point Peter Brook (-19), South Branch (-20) and Connoisarauley Creek (-27) are listed separately.

South Br. Cattaraugus, Lower, and tribs (0104-0006)

NoKnownImpct

Waterbody Location Information

Revised: 06/01/2010

Water Index No: Ont 158..E-23-20
Hydro Unit Code: 04120102/030 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 97.5 Miles
Seg Description: stream and tribs, from mouth to near Otto

Drain Basin: Lake Erie-Niagara River
Cattaraugus Creek
Reg/County: 9/Cattaraugu Co. (5)
Quad Map: GOWANDA (L-05-1)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

NYSDEC Rotating Integrated Basin Studies (RIBS) Intensive Network monitoring of South Branch Cattaraugus Creek in Otto, Cattaraugus County, (at Route 11) was conducted in 2005 and 2006. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, toxicity testing, sediment assessment and macroinvertebrate tissue analysis. Biological (macroinvertebrate) sampling indicated the upper range of slightly impacted to nonimpacted conditions. In such samples the community is only slightly altered from natural conditions. Some sensitive species may not be present and the overall abundance of macroinvertebrates is somewhat lower. However, the effects on the fauna appear to be insignificant and water quality is considered to be good. The nutrient biotic index and impact source determination indicate some enrichment in the stream and fauna that is most similar to communities influenced by nonpoint sources. Water column chemistry indicates no significant contaminants to be present at levels that constitute parameters of concern. Toxicity testing using water from this location detected no significant mortality but reproductive effects were noted in ne of three tests. Sediment screening for acute toxicity indicated some possible sediment toxicity and no porewater toxicity was indicated. Bottom sediments analysis based on sediment quality guidelines developed for freshwater ecosystems revealed overall sediment quality is not likely to cause chronic toxicity to sediment-dwelling organisms. Based on the consensus of these established assessment indicators, overall water quality at this site shows that in spite of some concerns that should continue to be monitored, aquatic life and recreational uses are considered to be fully supported in the stream, and there are no other apparent water quality impacts to recreational uses. (DEC/DOW,

BWAM/RIBS, June 2010)

A biological (macroinvertebrate) assessment of South Branch Cattaraugus Creek near the mouth near Gowanda was conducted in 2000. Field sampling results indicated good (slightly impacted) water quality conditions. Despite these conditions, the sample satisfied field screening criteria and aquatic life is considered to be fully supported in the stream. There are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAR/SBU, April 2003)

Water Quality Management

The Town of Otto completed a \$420,000 wastewater treatment plant (27,000 gpd) and sewer project in 1996 to serve 50 homes. Most of the funding came from a HUD grant. (DEC/DOW, Region 9, April 2003)

Segment Description

This segment includes the portion of the stream and all tribs from the mouth to Mansfield Creek (-11) near/above Otto. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment are Class C. Mansfield Creek (-11) is listed separately.

South Br. Cattaraugus, Upper, and tribs (0104-0058)

NoKnownImpct

Waterbody Location Information

Revised: 06/01/2010

Water Index No: Ont 158..E-23-20
Hydro Unit Code: 04120103/020 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 80.0 Miles
Seg Description: stream and tribs, above Otto

Drain Basin: Lake Erie-Niagara River
Buffalo/Eighteenmile
Reg/County: 9/Cattaraugu Co. (5)
Quad Map: COLLINS CENTER (L-05-2)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

NYSDEC Rotating Integrated Basin Studies (RIBS) Intensive Network monitoring of South Branch Cattaraugus Creek in Otto, Cattaraugus County, (at Route 11) was conducted in 2005 and 2006. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, toxicity testing, sediment assessment and macroinvertebrate tissue analysis. Biological (macroinvertebrate) sampling indicated the upper range of slightly impacted to nonimpacted conditions. In such samples the community is only slightly altered from natural conditions. Some sensitive species may not be present and the overall abundance of macroinvertebrates is somewhat lower. However, the effects on the fauna appear to be insignificant and water quality is considered to be good. The nutrient biotic index and impact source determination indicate some enrichment in the stream and fauna that is most similar to communities influenced by nonpoint sources. Water column chemistry indicates no significant contaminants to be present at levels that constitute parameters of concern. Toxicity testing using water from this location detected no significant mortality but reproductive effects were noted in ne of three tests. Sediment screening for acute toxicity indicated some possible sediment toxicity and no porewater toxicity was indicated. Bottom sediments analysis based on sediment quality guidelines developed for freshwater ecosystems revealed overall sediment quality is not likely to cause chronic toxicity to sediment-dwelling organisms. Based on the consensus of these established assessment indicators, overall water quality at this site shows that in spite of some concerns that should continue to be monitored, aquatic life and recreational uses are considered to be fully supported in the stream, and there are no other apparent water quality impacts to recreational uses. This site is located just

below this reach of South Branch Cattaraugus Creek, but is considered to be representative of the upstream segment. (DEC/DOW, BWAM/RIBS, June 2010)

These results are consistent with results for sampling conducted at this site in 2000. Field sampling results at that time indicated non-impacted water quality conditions. The field assessment was verified by laboratory-sorting of the sample to order level. A diverse and well-balanced fauna was present. (DEC/DOW, BWAR/SBU, April 2003)

Water Quality Management

The Town of Otto completed a \$420,000 wastewater treatment plant (27,000 gpd) and sewer project in 1996 to serve 50 homes. Most of the funding came from a HUD grant. (DEC/DOW, Region 9, April 2003)

Segment Description

This segment includes the portion of the stream and all tribs above Mansfield Creek (-11) near/above Otto. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment are Class C. Mansfield Creek (-11) is listed separately.

Mansfield Creek and tribs (0104-0059)

NoKnownImpct

Waterbody Location Information

Revised: 05/12/2003

Water Index No: Ont 158..E-23-20-11
Hydro Unit Code: 04120102/030 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 93.0 Miles
Seg Description: entire stream and tribs

Drain Basin: Lake Erie-Niagara River
Cattaraugus Creek
Reg/County: 9/Cattaraugu Co. (5)
Quad Map: CATTARAUGUS (L-05-3)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

A biological (macroinvertebrate) assessment of Mansfield Creek near the mouth above Otto was conducted in 2000. Field sampling results indicated non-impacted water quality conditions. The sample satisfied field screening criteria and was returned to the stream. (DEC/DOW, BWAR/SBU, July 2002)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C(T). Tribs to this reach/segment, including Jersey Hollow Creek (-2) and Goodell Creek (-9), are Class C,C(T).

Rainbow, Timber Lakes (0104-0060)

MinorImpacts

Waterbody Location Information

Revised: 09/22/2010

Water Index No: Ont 158..E-23-20-P??
Hydro Unit Code: 04120102/030 **Str Class:** C(T)
Waterbody Type: Lake
Waterbody Size: 38.8 Acres
Seg Description: total area of both lakes

Drain Basin: Lake Erie-Niagara River
Cattaraugus Creek
Reg/County: 9/Cattaraugu Co. (5)
Quad Map: CATTARAUGUS (L-05-3)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Recreation	Stressed	Suspected

Type of Pollutant(s)

Known: ---
Suspected: ALGAL/WEED GROWTH, NUTRIENTS
Possible: Silt/Sediment

Source(s) of Pollutant(s)

Known: ---
Suspected: AGRICULTURE, Streambank Erosion
Possible: ---

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: ext/WQCC
TMDL/303d Status: n/a

Resolution Potential: Medium

Further Details

Overview

Recreational uses (fishing, boating) in Rainbow and Timber Lakes are thought to experience minor impacts due to high nutrient levels, algal growth and reduced clarity. Sources of nutrients and silt/sediment are thought to be nonpoint runoff from agricultural activities in the surrounding area and streambank erosion within the watershed.

Water Quality Sampling

Timber Lake was sampled as part of the NYSDEC Lake Classification and Inventory (LCI) sampling effort, a component of the Rotating Intensive Basin Studies (RIBS) Program, in 2005. Nutrient measurements taken at that time revealed the lake was best characterized as eutrophic. Phosphorus levels in the lake exceed the state guidance values indicating impacted/stressed recreational uses. Corresponding transparency and chlorophyll a measurements also indicated eutrophic conditions, though the measured clarity was adequate for the support of public bathing. An assessment of aquatic plants indicated none that would impact uses. Additional water quality data should be collected in the lake to better evaluate water quality conditions and whether the designated uses of the lake are supported. (DEC/DOW, BWAM/RIBS, May 2010)

These results are consistent with previous sampling on Timber Lake through the USEPA Environmental Monitoring and Assessment Program (EMAP) in 1993. Results of this study indicated high phosphorus levels and limited water clarity

significant enough to impact uses. However, there was insufficient data to fully evaluate the impact of these conditions on the recreational uses of the lake. (DEC/DOW, BWM/Lake Services, April 2003)

Segment Description

This segment includes the total area of both Rainbow and Timber Lakes. These lakes do not currently have Pond Numbers.