



Chemung River/Tuscarora Watershed

(0205010403)

Water Index Number	Waterbody Segment	Category
Pa 3-57- 5- 8	Tuscarora Creek, Lower, and tribs (0503-0016)	NoKnownImpct
Pa 3-57- 5- 8	Tuscarora Creek, Middle, and tribs (0503-0017)	NoKnownImpct
Pa 3-57- 5- 8	Tuscarora Creek, Upper, and tribs (0503-0018)	Need Verific
Pa 3-57- 5- 8-11	North Branch Tuscarora, Lower, and tribs (0503-0019)	NoKnownImpct
Pa 3-57- 5- 8-11	North Branch Tuscarora, Upper, and tribs (0503-0020)	UnAssessed
Pa 3-57- 5- 8-21	South Branch Tuscarora Creek and tribs (0503-0021)	UnAssessed

Tuscarora Creek, Lower, and tribs (0503-0016)

NoKnownImpct

Waterbody Location Information

Revised: 01/19/2007

Water Index No:	Pa 3-57- 5- 8	Drain Basin:	Chemung River
Hydro Unit Code:	02050104/060	Str Class:	C
Waterbody Type:	River	Reg/County:	Tioga River 8/Steuben Co. (51)
Waterbody Size:	44.2 Miles	Quad Map:	ADDISON (M-12-4)
Seg Description:	stream and tribs, from mouth to above South Addison		

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
TMDL/303d Status: n/a

Resolution Potential: n/a

Further Details

NYSDEC Rotating Intensive Basin Studies (RIBS) Intensive Network monitoring of Tuscarora Creek in Addison, Steuben County, (at Orr Hill/South Road) was conducted in 2003. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, sediment and invertebrate tissues analysis and toxicity evaluation. The biological (macroinvertebrate) assessment for the site indicated non-impacted water quality conditions. The fauna was dominated by clean-water mayflies. Crayfish collected for tissue analysis did not show metals, organochlorine pesticides, PCBs, or PAHs above levels of concern. Water column sampling revealed no substances to be parameters of concern. Bottom sediment sampling was not conducted at this site. Toxicity testing of the water column showed no significant mortality or reproductive impacts. Fish community metrics reflected very good water quality. The fish community was dominated by longnose dace, blacknose dace, central stoneroller, and mottled sculpin. Other species included cutlips minnow, pearl dace, yellow bullhead, brown bullhead, banded darter, shield darter, largemouth bass, smallmouth bass, and rock bass. (DEC/DOW, BWAM/RIBS, January 2005)

A biological (macroinvertebrate) assessment of Tuscarora Creek in Addison (at South Street) was conducted in 2002. Field sampling results indicated non-impacted water quality conditions. Although the site is in an agricultural area and the stream had considerable filamentous algae and supersaturated dissolved oxygen indicating high productivity, the fauna was diverse and dominated by sensitive mayflies. All screening criteria for waters having no known impacts were met. A 1997 sample from a site just above this reach in South Addison was laboratory-processed and revealed a

similar assessment. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream and all tribs from the mouth in Addison to North Branch Tuscarora Creek above South Addison. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Elk Creek (-9), are also Class C. North Branch Tuscarora Creek (-11) is listed separately.

Tuscarora Creek, Middle, and tribs (0503-0017)

NoKnownImpct

Waterbody Location Information

Revised: 01/19/2007

Water Index No: Pa 3-57- 5- 8
Hydro Unit Code: 02050104/060 **Str Class:** C
Waterbody Type: River
Waterbody Size: 22.2 Miles
Seg Description: stream and tribs, from above South Addison to Woodhull

Drain Basin: Chemung River
Tioga River
Reg/County: 8/Steuben Co. (51)
Quad Map: BORDEN (M-11-3)

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
TMDL/303d Status: n/a

Resolution Potential: n/a

Further Details

Biological (macroinvertebrate) assessments of Tuscarora Creek in East Woodhull (at Route 417) and in Woodhull (at Main Street) were conducted in 2002. Field sampling results indicated non-impacted water quality conditions. Although the site is in an agricultural area and the stream had considerable filamentous algae and supersaturated dissolved oxygen indicating high productivity, the fauna was diverse and dominated by sensitive mayflies. All screening criteria for waters having no known impacts were met. A 1997 sample from a site in South Addison (at Route 85) was laboratory-processed and revealed a similar assessment. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream and all tribs from North Branch Tuscarora Creek above South Addison to South Branch Tuscarora Creek in Woodhull. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including East Lick Creek (-18), are also Class C. North Branch Tuscarora Creek (-11) and South Branch Tuscarora Creek (-21) are listed separately.

Tuscarora Creek, Upper, and tribs (0503-0018)

Need Verific

Waterbody Location Information

Revised: 02/05/2007

Water Index No:	Pa 3-57- 5- 8	Drain Basin:	Chemung River
Hydro Unit Code:	02050104/060	Str Class:	C
Waterbody Type:	River	Reg/County:	Tioga River 8/Steuben Co. (51)
Waterbody Size:	39.1 Miles	Quad Map:	WOODHULL (M-11-4)
Seg Description:	stream and tribs, above Woodhull		

Water Quality Problem/Issue Information (CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Suspected
Recreation	Stressed	Suspected

Type of Pollutant(s)

Known: ---
Suspected: AESTHETICS, D.O./OXYGEN DEMAND, AMMONIA, NUTRIENTS
Possible: Pathogens

Source(s) of Pollutant(s)

Known: ---
Suspected: MUNICIPAL (Jasper WWTP)
Possible: ---

Resolution/Management Information

Issue Resolvability:	1 (Needs Verification/Study (see STATUS))	Resolution Potential: Medium
Verification Status:	1 (Waterbody Nominated, Problem Not Verified)	
Lead Agency/Office:	DOW/BWAM	
TMDL/303d Status:	n/a	

Further Details

Aquatic life support and recreational uses in this portion of Tuscarora Creek may experience impacts from the wastewater treatment facility in the Hamlet of Jasper.

Construction of a new USBF (Upflow Sludge Blanket Filtration) wastewater treatment plant to address failing residential onsite septic systems in Jasper began in early May 2005, and the WWTP went on-line on in December 2005. The plant receives an average of about 15,000 GPD. However during its first year of operation the WWTP has been unable to consistently meet SPDES permit limits for: BOD, total suspended solids (TSS) and ammonia. Personnel of MRB Group (the consultant engineering firm) and Purestream (the supplier of the major equipment within the plant), are working with the operators of the plant to identify and solve the causes of these exceedences. (DEC/DOW, Region 8, January 2007)

The plant is located at the end of Grange Street in the Hamlet of Jasper, and uses an Upflow Sludge Blanket Filtration process. The plant and collection system serve approximately 117 EDU's (equivalent dwelling units) and consist of approximately 13,000 feet of 8-inch diameter sewer pipe, 2,500 feet of 2-inch diameter forcemain pipe, manholes, pumping stations, and grinder type pumping units. Grants totaling 2.13 million dollars from the Governor's Office for Small Cities, US Department of Agriculture (Rural Development Section), the Appalachian Regional Commission and

the Environmental Facilities Corporation made this 3.28 million-dollar project possible. (DEC/DOW, Region 8, January 2007)

A biological (macroinvertebrate) assessment of Tuscarora Creek in Woodhull (at Main Street) was conducted in 2002. Field sampling results indicated non-impacted water quality conditions. Although the site is in an agricultural area and the stream had considerable filamentous algae and supersaturated dissolved oxygen indicating high productivity, the fauna was diverse and dominated by sensitive mayflies. All screening criteria for waters having no known impacts were met. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream and all tribs above South Branch Tuscarora Creek in Woodhull. The waters of this portion of the stream are Class C. Tribs to this reach/segment are also Class C. South Branch Tuscarora Creek (-21) is listed separately.

North Branch Tuscarora, Lower, and tribs (0503-0019) NoKnownImpct

Waterbody Location Information

Revised: 01/19/2007

Water Index No: Pa 3-57- 5- 8-11 **Drain Basin:** Chemung River
Hydro Unit Code: 02050104/060 **Str Class:** C Tioga River
Waterbody Type: River **Reg/County:** 8/Steuben Co. (51)
Waterbody Size: 21.2 Miles **Quad Map:** BORDEN (M-11-3)
Seg Description: stream and tribs, from mouth to Hedgesville

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
TMDL/303d Status: n/a

Resolution Potential: n/a

Further Details

A biological (macroinvertebrate) assessments of North Branch Tuscarora Creek near South Addison (at Holden Road) was conducted in 2002. Field sampling results indicated non-impacted water quality conditions. Although the site is in an agricultural area and the stream had considerable filamentous algae and supersaturated dissolved oxygen indicating high productivity, the fauna was diverse and dominated by sensitive mayflies. All screening criteria for waters having no known impacts were met. (DEC/DOW, BWAM/SBU, June 2005)

Sampling results from a 2006 Susquehanna River Basin Chemung River Subbasin Survey indicated slight impacts, but these may have been the result of degraded habitat conditions rather than water quality conditions. Water chemistry results did not reveal any impacts. (SRBC, March 2007)

This segment includes the portion of the stream and all tribs from the mouth above South Addison to/including unnamed trib (-7) in Hedgesville. The waters of this portion of the stream are Class C. Tribs to this reach/segment are also Class C. Upper North Branch Tuscarora Creek is listed separately.

North Branch Tuscarora, Upper, and tribs (0503-0020)

UnAssessed

Waterbody Location Information

Revised: 05/26/2004

Water Index No:	Pa 3-57- 5- 8-11	Drain Basin:	Chemung River
Hydro Unit Code:	02050104/060	Str Class:	C
Waterbody Type:	River	Reg/County:	8/Steuben Co. (51)
Waterbody Size:	26.6 Miles	Quad Map:	CAMERON (M-11-1)
Seg Description:	stream and tribs, above Hedgesville		

Water Quality Problem/Issue Information (CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
UnAssessed Water		

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

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

Resolution/Management Information

Issue Resolvability: ()
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office:
TMDL/303d Status: n/a

Resolution Potential: n/a

Further Details

This segment includes the portion of the stream and all tribs above unnamed trib (-7) in Hedgesville. The waters of this portion of the stream are Class C. Tribs to this reach/segment are also Class C. Lower North Branch Tuscarora Creek is listed separately.

South Branch Tuscarora Creek and tribs (0503-0021)

UnAssessed

Waterbody Location Information

Revised: 05/26/2004

Water Index No:	Pa 3-57- 5- 8-21	Drain Basin:	Chemung River
Hydro Unit Code:	02050104/060	Str Class:	C
Waterbody Type:	River	Reg/County:	Tioga River 8/Steuben Co. (51)
Waterbody Size:	24.5 Miles	Quad Map:	WOODHULL (M-11-4)
Seg Description:	entire stream and tribs		

Water Quality Problem/Issue Information (CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
UnAssessed Water		

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

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

Resolution/Management Information

Issue Resolvability: ()
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office:
TMDL/303d Status: n/a

Resolution Potential: n/a

Further Details

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