



Mohawk/Delta Reservoir Watershed (0202000401)

Water Index Number

H-240 (portion 16)/P1059
 H-240-P1059-245 thru 261
 H-240-P1059-248-P1060
 H-240-P1059.. Up Mohawk
 H-240-P1059.. Up Mohawk, West Br
 H-240-P1059..263
 H-240-P1059..267
 H-240-P1059..271
 H-240-P1059..271-P1062a
 H-240-P1059..288

Waterbody Segment

Delta Reservoir (1201-0019)
 Tribs to Delta Reservoir (1201-0215)
 Rome Reservoir (1201-0216)
 Mohawk River, Upper, and minor tribs (1201-0068)
 Mohawk River, Upper, and tribs (1201-0217)
 Big Brook and tribs (1201-0218)
 Stringer Brook and tribs (1201-0219)
 Lansing Kill and tribs (1201-0220)
 Echo Lake/North Pond (1201-0221)
 East Branch Mohawk River and tribs (1201-0222)

Category

Impaired Seg
 NoKnownImpct
 UnAssessed
 NoKnownImpct
 NoKnownImpct
 NoKnownImpct
 NoKnownImpct
 Need Verific
 UnAssessed
 NoKnownImpct

Delta Reservoir (1201-0019)

Impaired Seg

Waterbody Location Information

Revised: 11/01/2002

Water Index No: H-240 (portion 16)/P1059
Hydro Unit Code: 02020004/010 **Str Class:** A(T)
Waterbody Type: Lake(R) (Unknown Trophic)
Waterbody Size: 2375.7 Acres
Seg Description: entire reservoir

Drain Basin: Mohawk River
Reg/County: 6/Oneida Co. (33)
Quad Map: WESTERVILLE (H-19-4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
RECREATION	Impaired	Known
HABITAT/HYDROLOGY	Impaired	Known

Type of Pollutant(s)

Known: WATER LEVEL/FLOW
Suspected: THERMAL CHANGES, Nutrients, Restricted Passage, Silt/Sediment
Possible: D.O./Oxygen Demand

Source(s) of Pollutant(s)

Known: HYDRO MODIFICATION
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: DEC/FWMR
TMDL/303d Status: 4c (Impaired by Pollution, Not Pollutant(s), Not Listed)

Resolution Potential: Medium

Further Details

Overview

Natural resources (fishery) habitat and recreational (fishing, boating) uses are significantly affected by hydrologic modifications and slightly elevated nutrient levels. Agricultural activity in the watershed are considered the likely source of nutrient loadings to the lake, which contribute to the weed/algal growth. Though classified to support drinking water supply use, the reservoir is not used as a water supply.

Source Assessment

Annual fluctuations in the lake water level due to flood control and augmentation of water in the NYS Barge Canal impact the fishery resource. Low lake levels trap fish in shallow pools and make them more vulnerable to predators. Low levels also restrict boating and fishing opportunities. The state park beach on the lake has reportedly been closed at times due to low water levels. A high occurrence of tumors on bullheads had been documented in the past however a causative agent was never identified and the frequency of tumors has decreased significantly. (DEC/DFWMR, Region 6, April 2002)

Water Quality Sampling

Delta Lake was included in the NYSDEC Citizens Statewide Lake Assessment Program (CSLAP) volunteer monitoring effort from 1991 through 1993. Results of this study indicate that phosphorus levels rarely exceeded the criteria associated with minor

impacts. (DEC/DOW, BWM/Lake Services, August 2002)

Tribs to Delta Reservoir (1201-0215)

NoKnownImpct

Waterbody Location Information

Revised: 02/09/2010

Water Index No: H-240-P1059-245 thru 261
Hydro Unit Code: 02020004/010 **Str Class:** A
Waterbody Type: River (Low Flow)
Waterbody Size: 33.6 Miles
Seg Description: total length of selected tribs to the reservoir

Drain Basin: Mohawk River
Reg/County: 6/Oneida Co. (33)
Quad Map: WESTERVILLE (H-19-4)

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 Potash Creek in Stokes Corners (at Route 53) was conducted as part of the RIBS biological screening effort in 2005. Sampling results indicated 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 are relatively insignificant and water quality is considered to be good. The nutrient biotic index and impact source determination indicate some elevated enrichment in the stream. However aquatic life support is considered to be fully supported in the stream. Though Potash 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. (DEC/DOW, BWAM/SBU, January 2010)

Segment Description

This segment includes the total length of selected/smaller tribs to Delta Reservoir. Tribs within this segment, including Potash Creek (-248), Spink Brook (-258) and Deans Guld (-260), are Class A,A(T). The Upper Mohawk River is listed separately.

Mohawk River, Upper, and minor tribs (1201-0068)

NoKnownImpct

Waterbody Location Information

Revised: 08/20/2002

Water Index No: H-240-P1059.. Upper Mohawk **Drain Basin:** Mohawk River
Hydro Unit Code: 02020004/010 **Str Class:** A(TS) Mohawk River
Waterbody Type: River (Low Flow) **Reg/County:** 6/Oneida Co. (33)
Waterbody Size: 49.5 Miles **Quad Map:** WESTERVILLE (H-19-4)
Seg Description: stream and tribs, from Delta Reservoir to West Branch

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 the Mohawk River in Northwestern, Oneida County, (at River Road) 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 indicated iron to be present in concentrations 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 also indicated no sediment toxicity. Bottom sediments collected from this site revealed no elevated levels of contaminants. Based on the consensus of these established assessment methods, 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, January 2010)

RIBS Intensive Network monitoring of the Upper Mohawk River in Northwestern (at River Road) was also conducted in 2000 and 2001. Biological (macroinvertebrate) assessments of the Upper Mohawk River in Northwestern were conducted in 2000 and 2001 as part of the RIBS effort. Sampling results indicated non-impacted water quality conditions based on field-assessment in 2000. The 2001 sample was laboratory-processed, and yielded an assessment of slight impact, likely from nonpoint nutrient enrichment. No significant parameters of concern were found in the water column. Elevated fecal coliform levels were found after heavy rainfall events, but these are not considered representative of typical water quality conditions. No toxicity in the water column was detected in tests conducted on two different dates, although elevated levels of nickel were found in the sediments. (DEC/DOW, BWAR/RIBS, April 2003)

Potential Source Assessment

There are concerns regarding streambank erosion along some portions of this reach and resulting increases in turbidity in the stream and downstream in Delta Reservoir. (Oneida County WQCC, April 2002)

Segment Description

This segment includes the portion of the stream and all tribs from the Delta Reservoir to the East Branch (-288) near West Branch. The waters of this portion of the stream, are Class A(TS). Tribs to this reach/segment, including Tannery Creek (-265) and Blue Brook (-281) are primarily Class A,A(T). Big Brook (-263), Stringer Brook (-267), Lansing Kill (-271) and East Branch (-288) are listed separately.

Mohawk River, Upper, and tribs (1201-0217)

NoKnownImpct

Waterbody Location Information

Revised: 08/20/2002

Water Index No: H-240-P1059.. Upper Mohawk, West Br **Drain Basin:** Mohawk River
Hydro Unit Code: 02020004/010 **Str Class:** A(TS) Mohawk River
Waterbody Type: River (Low Flow) **Reg/County:** 6/Oneida Co. (33)
Waterbody Size: 34.1 Miles **Quad Map:** WESTERVILLE (H-19-4)
Seg Description: stream and tribs, above West Branch

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 the Upper Mohawk in West Branch and Ava Brook in Ava were conducted in 2000. Field sampling results indicated non-impacted water quality conditions at both sites. The sample satisfied field screening criteria and was returned to the stream. (DEC/DOW, BWAR/SBU, July 2002)

Segment Description

This segment includes the portion of the stream and all tribs above East Branch (-288) near West Branch. The waters of this portion of the stream, are Class A(TS). Tribs to this reach/segment, including Ava Brook (-290), Hubbard-Griswold Brook (-295) and Enearl Brook (-296), are Class A,A(T),A(TS). East Branch (-288) is listed separately.

Big Brook and tribs (1201-0218)

NoKnownImpct

Waterbody Location Information

Revised: 08/08/2002

Water Index No:	H-240-P1059..263	Drain Basin:	Mohawk River
Hydro Unit Code:	02020004/010	Str Class:	A(T)
Waterbody Type:	River (Low Flow)	Reg/County:	6/Oneida Co. (33)
Waterbody Size:	53.1 Miles	Quad Map:	NORTH WESTERN (H-19-3)
Seg Description:	entire stream and tribs		

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 Brook at the mouth in Frenchville 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 A,A(T). Tribs to this reach/segment, including Gifford Creek (-1), Gulf Creek (-2) and Beaver Meadow Brook (-4), are also Class A,A(T).

Stringer Brook and tribs (1201-0219)

NoKnownImpct

Waterbody Location Information

Revised: 02/05/2010

Water Index No:	H-240-P1059..267	Drain Basin:	Mohawk River
Hydro Unit Code:	02020004/010	Str Class:	A(T)
Waterbody Type:	River (Low Flow)	Reg/County:	6/Oneida Co. (33)
Waterbody Size:	24.7 Miles	Quad Map:	NORTH WESTERN (H-19-3)
Seg Description:	entire stream and tribs		

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 Stringer Brook in Northwestern (at Route 46) 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; in this stream, some nutrient enrichment was noted. 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 2009)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class A(T). Tribs to this reach/segment, including Cyrus Brook (-2), Dry Brook (-3) and Bunt Brook (-4), are Class A,A(T).

Lansing Kill and tribs (1201-0220)

Need Verific

Waterbody Location Information

Revised: 02/08/2010

Water Index No:	H-240-P1059..271	Drain Basin:	Mohawk River
Hydro Unit Code:	02020004/010	Str Class:	A(TS)
Waterbody Type:	River (Low Flow)	Reg/County:	6/Oneida Co. (33)
Waterbody Size:	57.6 Miles	Quad Map:	WESTERVILLE (H-19-4)
Seg Description:	entire stream and tribs		

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

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

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

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

Resolution/Management Information

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

Further Details

Overview

Natural resources (fishery) habitat in Lansing Kill may experience impacts from silt and sediment loads and from streambank erosion.

Habitat Assessment

Past fish surveys have shown reduced fish populations. High and unstable banks were reported to provide little, if any, cover and streambank erosion was noted. Previous farming practices had been cited as contributing to problems in the past but agricultural activity is very limited now. The system may be beginning to recover. Logging activity and resulting runoff along the stream remain a concern. (DEC/DFWMR, Region 6, April 2002)

Water Quality Sampling

A biological (macroinvertebrate) assessment of Lansing Kill at the mouth in Hillside 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 A(TS). Tribs to this

reach/segment, including Chase Gulf (-4), Dunn Brook (-5) and Clark Brook (-9), are Class A,A(T).

East Branch Mohawk River and tribs (1201-0222)

NoKnownImpct

Waterbody Location Information

Revised: 01/29/2010

Water Index No: H-240-P1059..288
Hydro Unit Code: 02020004/010 **Str Class:** A(T)
Waterbody Type: River (Low Flow) **Reg/County:** 6/Oneida Co. (33)
Waterbody Size: 33.9 Miles **Quad Map:** WEST LEYDEN (H-19-1)
Seg Description: entire stream and tribs

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 East Branch Mohawk River near Ava (at Route 67) was conducted as part of the RIBS biological screening effort in 2005. Sampling results indicated 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 are relatively insignificant and water quality is considered to be good. The nutrient biotic index and impact source determination indicate elevated enrichment in the stream and fauna that is most similar to 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, January 2010)

A biological (macroinvertebrate) assessment of East Branch Mohawk River near Ava (at Route 67) 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 A(T). Tribs to this reach/segment, including Wood Creek (-1) are Class A,A(T),A(TS).