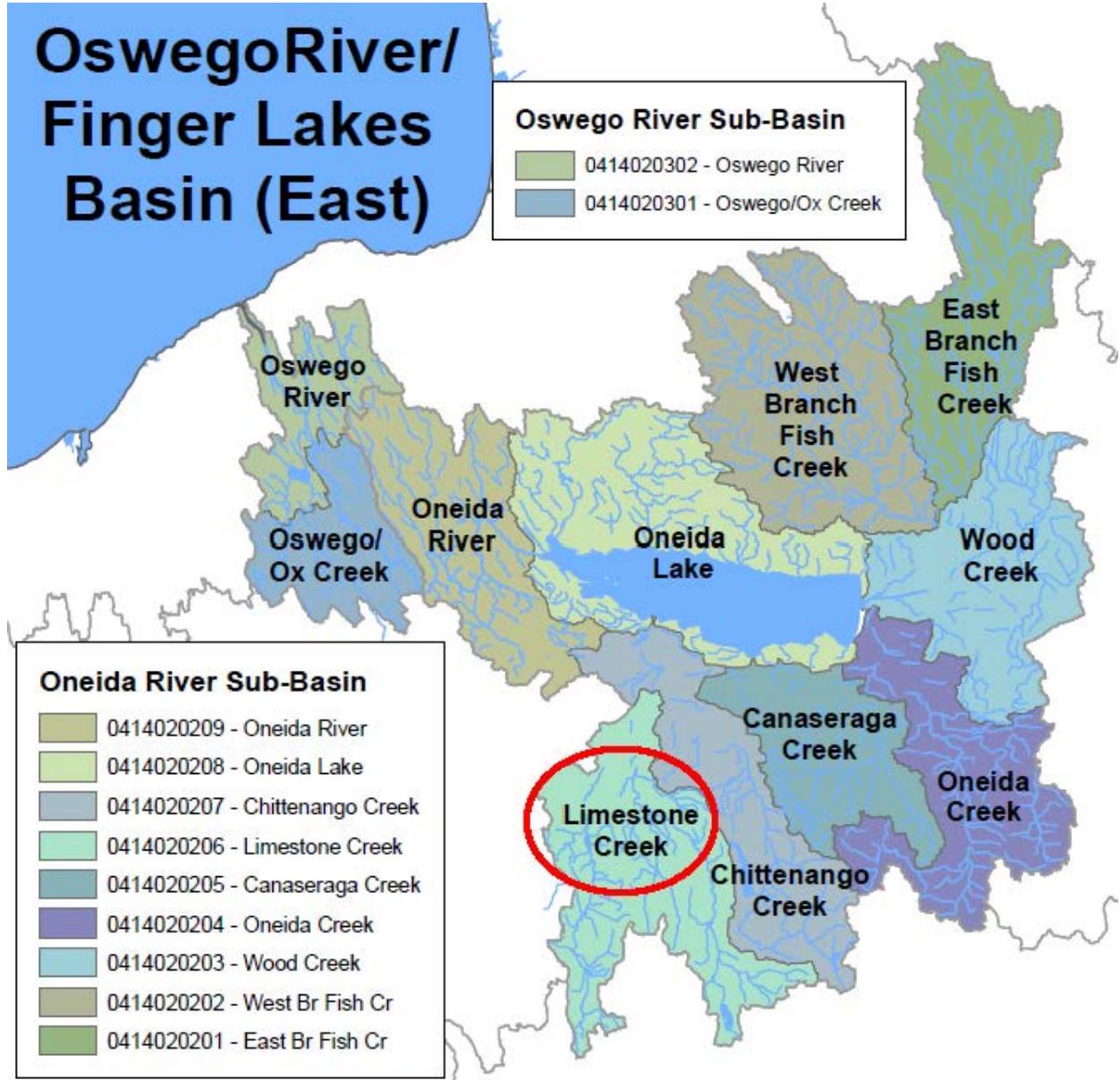


Oswego River/ Finger Lakes Basin (East)



Limestone Creek (0414020206)

Water Index Number

Ont 66-11-P26-37- 6
 Ont 66-11-P26-37- 6
 Ont 66-11-P26-37- 6- 2
 Ont 66-11-P26-37- 6- 2
 Ont 66-11-P26-37- 6- 2- 6-P134,P13
 Ont 66-11-P26-37- 6- 2- 8
 Ont 66-11-P26-37- 6- 2- 8
 Ont 66-11-P26-37- 6- 2-(East Br)
 Ont 66-11-P26-37- 6- 2-37
 Ont 66-11-P26-37- 6-13
 Ont 66-11-P26-37- 6-14-P143
 Ont 66-11-P26-37- 6-15
 Ont 66-11-P26-37- 6-15- 1-P143a
 Ont 66-11-P26-37- 6-P144

Waterbody Segment

Butternut Creek, Lower, and minor tribs (0703-0039)
 Butternut Creek, Upper, and minor tribs (0703-0100)
 Limestone Creek, Lower, and minor tribs(0703-0008)
 Limestone Creek, Middle, and tribs (0703-0101)
 Snooks Pond, White Lake (0703-0102)
 Pratt Falls Creek, Upper, and tribs (0703-0103)
 West Branch Limestone Creek and tribs (0703-0104)
 East Branch Limestone Creek and tribs (0703-0105)
 Limestone Creek, Upper, and tribs (0703-0106)
 Butternut Creek Trib, Upper (0703-0107)
 Green Lake (0703-0108)
 Rush Creek, Upper, and tribs (0703-0109)
 East Syracuse Reservoir (0703-0110)
 Jamesville Reservoir (0703-0015)

Category

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

Butternut Creek, Upper, and minor tribs (0703-0100) NoKnownImpct

Waterbody Location Information

Revised: 05/21/2007

Water Index No: Ont 66-11-P26-37- 6
Hydro Unit Code: 04140202/100 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 77.6 Miles
Seg Description: stream and tribs, above Jamesville

Drain Basin: Oswego-Seneca-Oneida
Oneida River
Reg/County: 7/Onondaga Co. (34)
Quad Map: JAMESVILLE (J-16-2)

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

A biological (macroinvertebrate) assessment of Butternut Creek near Jamesville (at Appulla Road) was conducted in 2001. Sampling results indicated non-impacted water quality conditions. The fauna contained a diversity of clean-water mayflies, stoneflies and caddisflies. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream and selected/smaller tribs above the Jamesville Reservoir (P144) dam in Jamesville. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment, including Cascades Creek (-33a), are primarily Class C,C(T),C(TS), with a one trib designated Class D.

Limestone Creek, Lower, and minor tribs (0703-0008) Impaired Seg

Waterbody Location Information

Revised: 05/25/2007

Water Index No: Ont 66-11-P26-37- 6- 2 **Drain Basin:** Oswego-Seneca-Oneida
Hydro Unit Code: 04140202/100 **Str Class:** C Oneida River
Waterbody Type: River **Reg/County:** 7/Onondaga Co. (34)
Waterbody Size: 50.2 Miles **Quad Map:** SYRACUSE EAST (I-16-3)
Seg Description: stream and selected tribs, from mouth to Buellville

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

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Impaired	Suspected
RECREATION	Impaired	Suspected
Habitat/Hydrology	Stressed	Known

Type of Pollutant(s)

Known: Silt/Sediment
Suspected: AESTHETICS (odors), D.O./OXYGEN DEMAND, PATHOGENS, Nutrients
Possible: - - -

Source(s) of Pollutant(s)

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

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DOW/REg7 **Resolution Potential:** Medium
TMDL/303d Status: 1*

Further Details

Aquatic life support and recreational use in this portion of Limestone Creek are thought to be impaired by pollutants from municipal wastewater impacts. Agricultural and other nonpoint sources also contribute to nutrient enrichment in the stream. Turbidity from streambank erosion is also a concern.

A biological (macroinvertebrate) assessment of Limestone Creek in Minoa (at Kirkville Road) was conducted in 2001. Sampling results indicated moderately impacted water quality conditions. Sewage wastes were identified as the primary cause of the impacts. This sampling site is downstream of wastewater treatment plant discharges, which are thought to be the source of the impacts. (DEC/DOW, BWAM/SBU, June 2005)

The larger of the wastewater treatment plant discharges is the Onondaga County Meadowbrook-Limestone WWTF which has a history of permit violations, many the result of wet-weather flows, and is the likely source of water

quality impacts. The plant is currently undergoing an upgrade. Sewer collection system improvements to address infiltration and inflow issues is also underway. (DEC/DOW, Region 7, November 2007)

Sediment loads and elevated turbidity from channelization and other activities in the watershed also impacts the cold water fishery habitat by covering fish eggs and filling the spawning grounds with silt. Evaluations by DEC Fisheries staff notes that there are older fish but not the young of the year; which also suggests impacts to fish propagation. This turbidity is considered to be largely a natural occurrence due to the unstable clay streambanks.

This segment includes the portion of the stream and selected/smaller tribs from the mouth to unnamed pond (P138a) near Buellville. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment, including Bishop Brook (-4), are primarily Class C,C(T),C(TS), one unnamed trib (-6) is designated Class B. West Branch Limestone Creek (-8) and Middle/Upper Limestone Creek are listed separately.

East Branch Limestone Creek and tribs (0703-0105)

MinorImpacts

Waterbody Location Information

Revised: 05/25/2007

Water Index No: Ont 66-11-P26-37- 6- 2-(East Br) **Drain Basin:** Oswego-Seneca-Oneida
Hydro Unit Code: 04140202/100 **Str Class:** B(T) Oneida River
Waterbody Type: River **Reg/County:** 7/Onondaga Co. (34)
Waterbody Size: 20.8 Miles **Quad Map:** DE RUYTER (J-17-4)
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	Known

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

Known: HABITAT MODIFICATION, STREAMBANK EROSION
Suspected: ---
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

Habitat/hydrology in East Branch Limestone Creek is known to experience impacts due to silt/sediment from eroding streambanks.

A significant and ongoing stream bank failure is occurring on the lower portion of the stream below New Woodstock. The slide was first noted in summer of 2002. Sloughing continues during periods of heavy rain and runoff. The slide covers seven acres with elevation change of over 400 feet. Impacts to the fishery are likely. Efforts to study the effects and implement measures to reduce the impacts of the erosion are ongoing. (Madison County WQCC, April 2003)

This segment includes the entire stream and all tribs. The waters of this portion of the stream are Class B(T). Tribs to this reach/segment are Class C.