



### Canaseraga Creek (0414020205)

Water Index Number	Waterbody Segment	Category
Ont 66-11-P26-33	Canaseraga/Cowaselon Cr, Low, and tribs (0703-0034)	Need Verific
Ont 66-11-P26-33	Cowaselon Creek, Middle, and minor tribs (0703-0093)	MinorImpacts
Ont 66-11-P26-33	Cowaselon Creek, Upper, and tribs (0703-0094)	UnAssessed
Ont 66-11-P26-33- 2	Canaseraga Creek, Upper, and tribs(0703-0095)	MinorImpacts
Ont 66-11-P26-33- 5	Canastota Creek, Lower, and tribs (0703-0002)	Impaired Seg
Ont 66-11-P26-33- 5	Canastota Creek, Upper, and tribs (0703-0096)	UnAssessed
Ont 66-11-P26-33-13	Clockville Creek and tribs (0703-0097)	UnAssessed

# Canaseraga/Cowaselon Cr, Low, and tribs (0703-0034) Need Verific

## Waterbody Location Information

Revised: 05/25/2007

<b>Water Index No:</b>	Ont 66-11-P26-33	<b>Drain Basin:</b>	Oswego-Seneca-Oneida
<b>Hydro Unit Code:</b>	04140202/090	<b>Str Class:</b>	C
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	7/Madison Co. (27)
<b>Waterbody Size:</b>	9.8 Miles	<b>Quad Map:</b>	JEWELL (I-17-2)
<b>Seg Description:</b>	stream and tribs, from mouth to Ontiontown		

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

<b>Use(s) Impacted</b>	<b>Severity</b>	<b>Problem Documentation</b>
Aquatic Life	Stressed	Possible

### Type of Pollutant(s)

Known: ---  
Suspected: NUTRIENTS, SILT/SEDIMENT  
Possible: Pesticides

### Source(s) of Pollutant(s)

Known: ---  
Suspected: AGRICULTURE, Habitat Modification, Hydro Modification  
Possible: ---

## Resolution/Management Information

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

## Further Details

Aquatic life support in this portion of Canaseraga/Cowaselon Creek may continue to experience minor impacts due to nutrient and silt/sediment loads from agricultural activities in the watershed.

A biological (macroinvertebrate) assessment of Vly Creek in Lakeport (at Lakeport Road) was last conducted in 1990. Sampling results at that time indicated moderately impacted water quality conditions. However poor sampling habitat was thought to influence the assessment. Additional and more recent sampling is recommended to determine water quality condition of the stream. (DEC/DOW, BWAM/SBU, June 2005)

Warm water fish species from Oneida Lake have access to the lowland segments of Canaseraga and Cowaselon Creeks. Above this segment, much of the stream has been significantly altered by wetland drainage projects designed to promote agricultural activities and control water runoff patterns. These activities result in nutrient and silt/sediment loadings. Pesticide runoff may also impact water quality in the stream.

This segment includes the portion of the stream and all tribs from the mouth at Oneida Lake to the confluence of the Upper Canaseraga Creek (-2) near Ontonagon. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Vly Creek (-1), are also Class C. The remainder of Canaseraga and Cowaselon Creek are listed separately.

# Cowaselon Creek, Middle, and minor tribs (0703-0093) MinorImpacts

## Waterbody Location Information

Revised: 05/25/2007

**Water Index No:** Ont 66-11-P26-33  
**Hydro Unit Code:** 04140202/090      **Str Class:** C  
**Waterbody Type:** River  
**Waterbody Size:** 55.2 Miles  
**Seg Description:** stream and selected tribs, from Oniontown to Lenox

**Drain Basin:** Oswego-Seneca-Oneida  
Oneida River  
**Reg/County:** 7/Madison Co. (27)  
**Quad Map:** CANASTOTA (I-17-3)

## 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
Habitat/Hydrology	Stressed	Known

### Type of Pollutant(s)

Known: SILT/SEDIMENT  
Suspected: Nutrients, Thermal Changes  
Possible: - - -

### Source(s) of Pollutant(s)

Known: HABITAT MODIFICATION, HYDRO MODIFICATION, Agriculture  
Suspected: - - -  
Possible: Municipal

## 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, aquatic life support and recreational uses in this reach of Cowaselon Creek are known to experience impacts due to extensive habitat and hydrologic modification of the stream channel through a muckland farming area. Increased nutrient and silt/sediment loading result from these agricultural activities as well. Municipal discharges may also be contributing to the impacts.

A biological (macroinvertebrate) assessment of Cowaselon Creek in Canastota (at Route 13) was last conducted in 1996. Sampling results indicated moderately impacted water quality conditions. Poor habitat is thought to be an influence on this assessment. Similar results were found on the creek in 1990. More recent monitoring is recommended to verify the degree of water quality impact. (DEC/DOW, BWAM/SBU, June 2005)

Warm water fish species from Oneida Lake have access to the lowland segments of Canaseraga and Cowaselon Creeks. However, many of the stream segments have been significantly altered by wetland drainage projects designed to promote agricultural activities and control water runoff patterns. These modifications have severely altered aquatic habitat conditions. Maintenance activities, such as the removal of vegetation from along the ditch banks, continue to affect these habitats through the loss of woody debris inputs and the loss of shade producing canopies. Efforts to return some of the abandoned muckland farming areas back to wetlands are underway. (USFWS, 2004)

Downstream of the City of Canastota (City), and in the vicinity of the City's waste water treatment plant, Cowaselon Creek becomes a well defined dug channel known as the Douglas Ditch. Near the downstream end of this ditch, Canaseraga Creek enters this channelized segment. From that point on, the waterway takes on the name of Canaseraga Creek and flows into Oneida Lake at Lakeport, New York.

This segment includes the portion of the stream and selected/smaller tribs from the confluence of the Upper Canaseraga Creek (-2) near Oniontown to Clockville Creek (-13) in Lenox. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment, including Owlville Creek (-4a) and Dutch Settlement Creek (-7), are also Class C,C(T). Canaseraga Creek (-2), Canastota Creek (-5) and Clockville Creek (-13) are listed separately.

# Canaseraga Creek, Upper, and tribs (0703-0095)

# MinorImpacts

## Waterbody Location Information

Revised: 05/25/2007

**Water Index No:** Ont 66-11-P26-33-2  
**Hydro Unit Code:** 04140202/090      **Str Class:** C(T)  
**Waterbody Type:** River  
**Waterbody Size:** 46.1 Miles  
**Seg Description:** stream and tribs, above Ontiontown

**Drain Basin:** Oswego-Seneca-Oneida  
Oneida River  
**Reg/County:** 7/Madison Co. (27)  
**Quad Map:** CANASTOTA (I-17-3)

## Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

### Type of Pollutant(s)

Known: ---  
Suspected: NUTRIENTS, Silt/Sediment  
Possible: ---

### Source(s) of Pollutant(s)

Known: ---  
Suspected: AGRICULTURE, URBAN/STORM RUNOFF  
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

**Resolution Potential:** Medium

## Further Details

Aquatic life support in this portion of Canaseraga Creek is thought to experience minor impacts due to nutrient and silt/sediment loadings from agricultural and other nonpoint sources.

A biological (macroinvertebrate) assessment of Canaseraga Creek in Sullivan (at Route 5) was conducted in 1996. Sampling results indicated slightly impacted water quality conditions. Nutrient enrichment was identified as the primary cause of the impact. Although aquatic life is supported in the stream, nutrient biotic evaluation suggests the level of eutrophication is sufficient to threaten aquatic life support. Because this sampling data is more than ten years old, additional follow-up monitoring is recommended to verify water quality conditions in the stream. (DEC/DOW, BWAM/SBU, December 2006)

This segment includes the portion of the stream and all tribs above the confluence with Cowaselon Creek near Ontiontown. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment are Class C,C(T). Cowaselon Creek is listed separately.



# Canastota Creek, Lower, and tribs (0703-0002)

Impaired Seg

## Waterbody Location Information

Revised: 05/25/2007

**Water Index No:** Ont 66-11-P26-33- 5  
**Hydro Unit Code:** 04140202/090      **Str Class:** C  
**Waterbody Type:** River  
**Waterbody Size:** 10.3 Miles  
**Seg Description:** stream and tribs, from mouth to Cottons

**Drain Basin:** Oswego-Seneca-Oneida  
Oneida River  
**Reg/County:** 7/Madison Co. (27)  
**Quad Map:** CANASTOTA (I-17-3)

## Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Impaired	Known
RECREATION	Impaired	Suspected
Aesthetics	Stressed	Known

### Type of Pollutant(s)

Known: D.O./OXYGEN DEMAND, PATHOGENS, Aesthetics, Nutrients  
Suspected: ---  
Possible: ---

### Source(s) of Pollutant(s)

Known: COMB. SEWER OVERFLOW  
Suspected: Agriculture  
Possible: ---

## Resolution/Management Information

**Issue Resolvability:** 3 (Strategy Being Implemented)  
**Verification Status:** 5 (Management Strategy has been Developed)  
**Lead Agency/Office:** DOW/Reg7  
**TMDL/303d Status:** 1\*

**Resolution Potential:** Medium

## Further Details

Aquatic life support, recreational uses and aesthetics in this portion of Canastota Creek are impaired by pathogens, nutrients and other pollutants from combined sewer overflows. Agricultural activities may also contribute nonpoint source pollutants.

A biological (macroinvertebrate) assessment of Canastota Creek in (at North Main Street) was conducted in 2001. Sampling results indicated moderately impacted water quality conditions. Toxicity and sewage inputs were the primary cause of the impacts. (DEC/DOW, BWAM/SBU, June 2005)

Combined sewer overflows and pump station bypasses in the Village of Canastota have been documented. These inputs impair aquatic life and recreation of the stream. In 2005 the village entered into a consent order requiring that

the number of overflows be reduced to less than four per year. The overflows are currently being addressed through the development of a CSO Long Term Control Plan. (DEC/DOW, Region 7, December 2006)

This segment includes the portion of the stream and all tribs from the mouth to Canastota Reservoir (P130) near Cottons. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment are Class C. Upper Canastota Creek is listed separately.