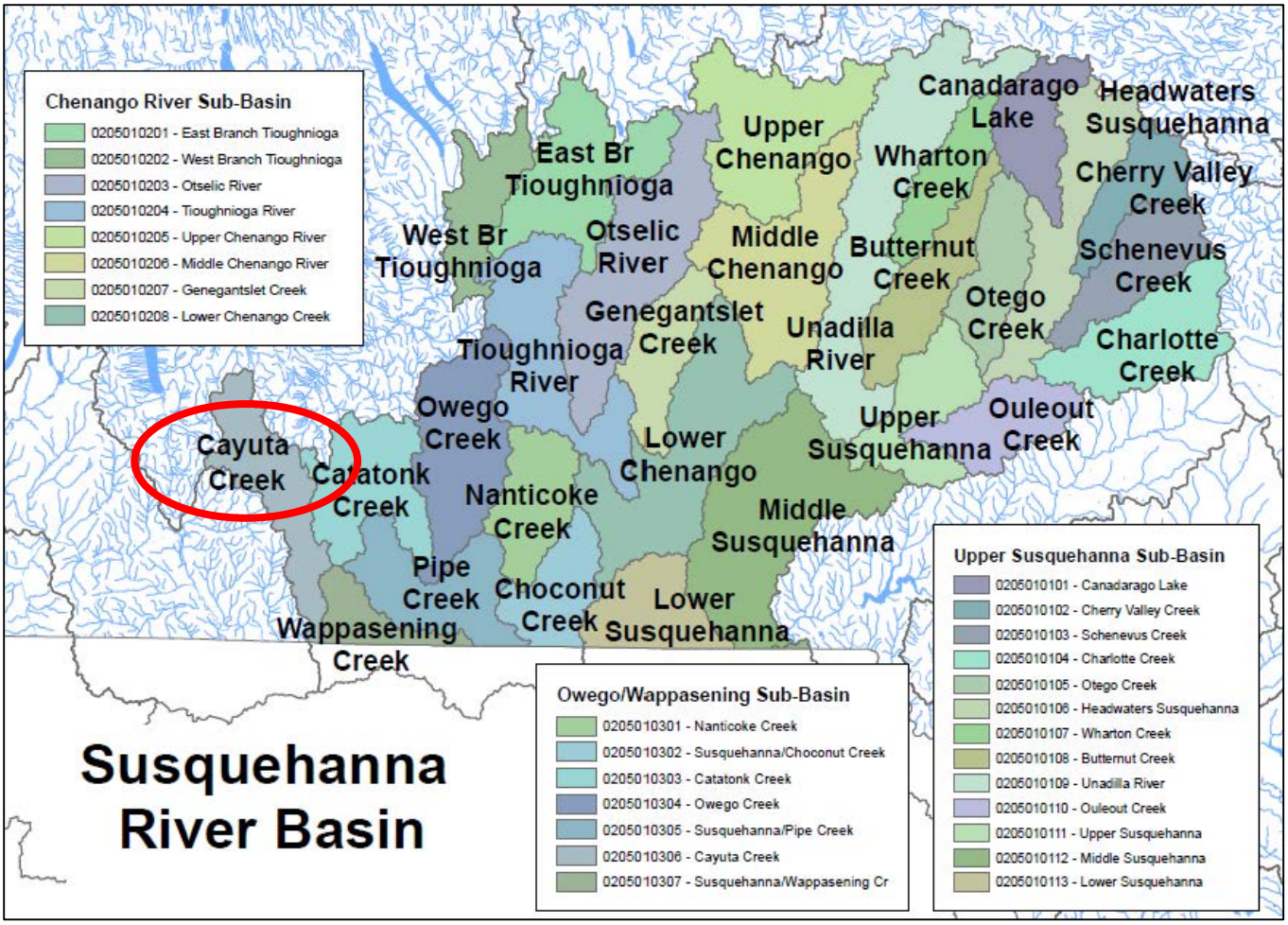

Cayuta Creek Watershed
(0205010306)

Water Index Number	Waterbody Segment	Category
SR (Pa)-1 (portion 1)	Cayuta Creek, Lower, and tribs (0603-0022)	NoKnownImpct
SR (Pa)-1 (portion 2)	Cayuta Creek, Middle, and tribs (0603-0064)	UnAssessed
SR (Pa)-1 (portion 3)	Cayuta Creek, Middle, and minor tribs (0603-0065)	UnAssessed
SR (Pa)-1 (portion 4)	Cayuta Creek, Upper, and minor tribs (0603-0066)	UnAssessed
SR (Pa)-1-26	Langford Creek and tribs (0603-0067)	UnAssessed
SR (Pa)-1-41	Jackson Creek and tribs (0603-0068)	UnAssessed
SR (Pa)-1-52	Pony Hollow Creek and tribs (0603-0069)	UnAssessed
SR (Pa)-1-P1-	Tribs to Cayuta Lake (0603-0056)	UnAssessed
SR (Pa)-1-P8	Cayuta Lake (0603-0005)	Minor Impacts
SR (Pa)-2	Dry Brook, Upper, and tribs (Waverly R) (0603-0074)	NoKnownImpct
SR (Pa)-P1	Dodge Pond (0603-0051)	UnAssessed

Cayuta Creek, Lower, and tribs (0603-0022) NoKnownImpct

Waterbody Location Information

Revised: 07/31/2009

Water Index No: SR (Pa)-1 (portion 1)
Hydro Unit Code: 02050103/220 **Str Class:** B
Waterbody Type: River (Low Flow)
Waterbody Size: 51.4 Miles
Seg Description: stream and tribs, from Waverly to Reniff

Drain Basin: Susquehanna River LowSusquehanna-Owego
Reg/County: 8/Chemung Co. (8) ...
Quad Map: WAVERLY (M-14-3) ...

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 Cayuta Creek in Milltown, PA was conducted as part of the RIBS biological screening effort in 1997. Sampling results indicated slightly impacted conditions. In such samples the community is only slightly altered from natural conditions. Some sensitive species are not present and a 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 enrichment in the stream and fauna that is most similar to natural communities with some nonpoint influences. Aquatic life support is considered to be fully supported in the stream. (DEC/DOW, BWAM/SBU, January 2009)

Assessment of Cayuta Creek in Waverly by the Susquehanna River Basin Commission found a non-impaired biological community during sampling in all years from 2002 through 2006. The site has been used as a reference site by SRBC for NY-PA border streams as it had the best combination of conditions for biology, habitat, and water quality. Elevated chlorine levels, likely from the Waverly WWTP discharge were noted and should be investigated. (Assessment of Interstate Streams, SRBC, May 2007)

Previous Assessment

Concerns were raised by local agencies during previous (1998) assessment efforts regarding the impact of siltation and sediment loads from high gradient tributaries, erodible soils and various activities in the watershed. Aesthetics and flooding issues are also of concern along the creek and its tributaries. Streambank and roadbank erosion have been cited as contributing sources. Local efforts have included stabilization of streambanks using rip-rap and concrete walls and the removal of gravel from the stream channel. Various other fluvial geomorphic methods are also being examined. Various agricultural activity, gravel mining and a motorcycle hill climb in the watershed have also been noted as possible sources of sediment. (Tioga and Schuyler County WQCC, May 1999)

Previous concerns regarding impacts from gravel mines in the watershed have also been largely addressed. (DEC/DMR, July 2009)

Segment Description

This segment includes the portion of the stream and all tribs from the NY-Pa state line in Waverly to/including Deans Brook (-14) in Reniff. The waters of this portion of the stream are Class B. Tribs to this reach/segment, including Spring Brook (-2), Lockwood Creek (-11) and Deans Brook (-14), are Class C. Middle/Upper Cayuta Creek are listed separately.

Cayuta Lake (0603-0005) MinorImpacts

Waterbody Location Information

Revised: 06/25/2001

Water Index No:	SR (Pa)-1-P8			**Drain Basin:**	Susquehanna River
Hydro Unit Code:	02050103/220	**Str Class:**	B		LowSusquehanna-Owego
Waterbody Type:	Lake			**Reg/County:**	8/Schuyler Co. (49)
Waterbody Size:	376.5 Acres			**Quad Map:**	ALPINE (L-14-4)
Seg Description:	entire lake				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Public Bathing	Stressed	Possible
Recreation	Stressed	Suspected
Aesthetics	Stressed	Suspected

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH (aquatic vegetation), NUTRIENTS (phosphorus), D.O./Oxygen Demand
Suspected: - - -
Possible: Silt/Sediment

Source(s) of Pollutant(s)

Known: - - -
Suspected: ON-SITE/SEPTIC SYST, Agriculture, Other Source (nutrient-rich sediment)
Possible: - - -

Resolution/Management Information

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

Further Details

Overview
Recreational uses (swimming, boating, fishing) in Cayuta Lake are known to experience minor impacts and threats due to rooted aquatic vegetation along the lake shore. Invasive plants are among the varieties of weeds.

Previous Assessment
Eurasian milfoil and white/yellow water lilies are prevalent at both the north and south ends of the lake. Cayuta Lake is among a number of lakes that are the focus of FL-LOWPA watershed protection activities. Other possible contributors to use impacts include some oxygen depletion, limited clarity and elevated nutrient levels in the lake that may contribute to the aquatic growth. Potential nutrient sources include failing and/or inadequate on-site septic systems serving lake shore homes, agricultural runoff in the watershed and nutrient-rich sediments. About 80 seasonal and year-round homes and a trailer park are located along the shore. Recreational sites include two campgrounds, three (private) boat launches, and a NYS DEC public access. A large dairy operation on Cayuta Inlet has a nutrient management plan in place. (Schuyler County SWCD and FL-LOWPA, November 2000)

Natural Resources Assessment

The lake is rather shallow (less than 24 feet) and somewhat naturally eutrophic. In spite of occasional summer anoxic conditions at lower depths, there is no evidence of fisheries or aquatic life impairment in the lake. There are several designated wetlands surrounding the lake. Along the inlet stream at the north end of the lake is a wetland preserve managed by Cornell University. Globally rare fresh water sponges have been found there. (Schuyler County SWCD, November 2000)

Dry Brook, Upper, and tribs (Waverly R) (0603-0074) NoKnownImpct

Waterbody Location Information

Revised: 06/12/2009

Water Index No: SR (Pa)-2
Hydro Unit Code: 02050103/220 **Str Class:** AA
Waterbody Type: River (Low Flow)
Waterbody Size: 0.0 Miles
Seg Description: stream and tribs, above Waverly

Drain Basin: Susquehanna River LowSusquehanna-Owego
Reg/County: 8/Chemung Co. (8)
Quad Map: WAVERLY (M-14-3)

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: OTHER POLLUTANTS (various), PATHOGENS

Source(s) of Pollutant(s)
Known: - - -
Suspected: - - -
Possible: AGRICULTURE, OTHER SOURCE (various)

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

Overview
Water supply use of Dry Brook is thought to experience threats from pathogens due to the level of agricultural pasturelands in the watershed. Current information does not indicate any impacts to water supply or other uses, but the use of the resources as a water supply and the activities in the watershed suggest additional protection efforts are appropriate. Additionally, although there are no specific water quality impacts, the segment is considered a highly valued water resource due to its drinking water supply classification as a AA(T) water. The particular resource value reflected in this designation and the need to provide additional protection may result in an assessment of threatened (possible) for drinking water use.

Source (Drinking) Water Assessment
A source water assessment of Dry Brook found some elevated susceptibility to contaminants due to the extent of agricultural pastureland in the watershed. This level of susceptibility is fairly typical of many water supplies that experience no actual 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 Waverly. (NYSDOH, Source Water Assessment Program, 2005)