



Poesten Kill (0202000601)

Water Index Number

H-236
H-236
H-236-13
H-236-13
H-236-13-11-P426,P427,P428
H-236-13-13-P428a,P429
H-236-13-13b-P430
H-236-13-P424
H-236-13-P425
H-236-15-P433
H-236-19-P435
H-236-22- 7-P437
H-236-22- 9-P440
H-236-22-11-P441
H-236-22-P438,P439
H-236-24- 2-P443
H-236-24-P444
H-236-P445

Waterbody Name

Poesten Kill, Lower, and minor tribs (1301-0068)
Poesten Kill, Upper, and tribs (1301-0255)
Quacken Kill, Lower, and tribs (1301-0256)
Quacken Kill, Upper, and tribs (1301-0257)
Mill Pond, Second Pond, Long Pond (1301-0258)
Lake Elizabeth, White Lily Pond (1301-0259)
Cranberry Pond (1301-0260)
Shaver Pond (1301-0261)
Dunham Reservoir (1301-0262)
Vosberg Pond (1301-0263)
Davitt Pond (1301-0264)
Hosford Pond (1301-0265)
Gravel Pond (1301-0266)
Forest Lake (1301-0267)
BonesteelPond,Wager Pond/MadonnaLake(1301-0268)
Hicks Pond (1301-0269)
Big Bowman Pond (1301-0270)
Dyken Pond (1301-0271)

Category

NoKnownImpct
NoKnownImpct
NoKnownImpct
NoKnownImpct
NoKnownImpct
UnAssessed
UnAssessed
UnAssessed
Impaired Seg
UnAssessed
UnAssessed
UnAssessed
UnAssessed
NoKnownImpct
UnAssessed
UnAssessed
UnAssessed
Impaired Seg

Poesten Kill, Lower, and minor tribs (1301-0068)

NoKnownImpct

Waterbody Location Information

Revised: 11/02/2007

Water Index No: H-236
Hydro Unit Code: 02020006/010 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 59.2 Miles
Seg Description: stream and select tribs, from mouth to Poestenkill

Drain Basin: Lower Hudson River
Middle Hudson River
Reg/County: 4/Rensselaer Co. (42)
Quad Map: TROY SOUTH (K-26-1)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted
NO USE IMPAIRMNT

Severity

Problem Documentation

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 Intensive Basin Studies (RIBS) Intensive Network monitoring of Poestenkill Creek in Troy, Rensselaer County, (at Spring Avenue) was conducted in 2003. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, sediment and invertebrate tissues analysis and toxicity evaluation. During this sampling the biological (macroinvertebrate) sampling results indicated slightly impacted water quality conditions. Nonpoint sources and nutrient enrichment was indicated as the likely source of the impacts. However, nutrient biotic evaluation determined these effects on the fauna to be minor. Aquatic life support is considered to be fully supported in the stream. Water column sampling revealed no parameters of concern. Bottom sediment sampling results revealed lead and nickel to be exceeding the Threshold Effects level - levels at which adverse impacts occasionally occur. Toxicity testing of the water column showed no significant mortality or reproductive impacts. Based on the consensus of these established assessment methods, overall water quality at this site is considered to be fully supportive of aquatic life and recreational uses. (DEC/DOW, BWAM/RIBS, January 2005)

A biological (macroinvertebrate) assessment of Poestenkill Creek at this site was also conducted in 2002 during the Biological Screening effort in the basin. Sampling results also indicated slightly impacted water quality conditions, with evidence of nutrient enrichment and siltation. (DEC/DOW, BWAM/SBU, September 2005)

A biological (macroinvertebrate) survey of Poesten Kill at multiple sites between Troy and East Poesten Kill was conducted in 2001. Sampling results indicated generally non-impacted water quality conditions. The one exception

along this reach is an assessment of slight impact at the farthest downstream site in Troy. However some indices at this site remained high and it is thought the impoundment effects from a pond above the site may influence the sampling results. Nutrient biotic evaluation determined the effects on the fauna at all sites to be minor. 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, Poesten Kill Biological Stream Assessment, April 2002)

Previous Assessment

Local agencies have previously expressed concerns about silt and sediment impacts from streambank erosion. Steep banks along the stream are prone to erosion, particularly at higher flows. Residential construction and commercial development in the watershed are also suspected potential sources of sediment. There is some concern about failing and/or inadequate on-site septic systems along the stream as well. The county reports there are areas where illegal dumping of trash and debris has occurred, reducing aesthetics of the creek. (Rensselaer County WQCC, 1996)

Segment Description

This segment includes the portion of the stream and selected/smaller tribs from the mouth to/including unnamed tribs (-17) in Poestenkill. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment, including Sweet Milk Creek (-7) and Newfoundland Creek (-15), are Class C,C(T),C(TS). Quacken Kill (-13) and Upper Poesten Kill are listed separately. Lower tidal portions of this trib are included with the Hudson Main Stem.

Poesten Kill, Upper, and tribs (1301-0255)

NoKnownImpct

Waterbody Location Information

Revised: 11/02/2007

Water Index No: H-236
Hydro Unit Code: Str Class: C(TS)
Waterbody Type: River
Waterbody Size: 64.6 Miles
Seg Description: stream and tribs, above Poestenkill
Drain Basin: Lower Hudson River
Reg/County: 4/Rensselaer Co. (42)
Quad Map: TROY SOUTH (K-26-1)

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

Overview

A biological (macroinvertebrate) survey of Poesten Kill at multiple sites between Troy and East Poesten Kill was conducted in 2001. Sampling results indicated generally non-impacted water quality conditions. The one exception along this reach is an assessment of slight impact at the farthest downstream site in Troy, which is below this reach. 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, Poesten Kill Biological Stream Assessment, April 2002)

Segment Description

This segment includes the portion of the stream and all tribs above unnamed trib (-17) in Poestenkill. The waters of this portion of the stream are Class C(T),C(TS). Tribs to this reach/segment, including Bonesteel Brook (-22), are Class C,C(T),C(TS). Lower Poesten Kill is listed separately.

Quacken Kill, Upper, and tribs (1301-0257)

NoKnownImpct

Waterbody Location Information

Revised: 11/02/2007

Water Index No: H-236-13
Hydro Unit Code: Str Class: A(TS)
Waterbody Type: River
Waterbody Size: 19.5 Miles
Seg Description: stream and tribs, above Quackenkill
Drain Basin: Lower Hudson River
Reg/County: 4/Rensselaer Co. (42)
Quad Map: GRAFTON (J-27-4)

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
TMDL/303d Status: n/a
Resolution Potential: n/a

Further Details

Overview

A biological (macroinvertebrate) survey of Quacken Kill at multiple sites from below Brunswick to Quacken Kill was conducted in 2006. Sampling results indicated non-impacted water quality conditions at all sites, including the one site in Quacken Kill and the downstream end of this reach. The fauna was diverse with clean-water organisms indicating no known impacts. (DEC/DOW, BWAM/SBU, June 2005)

Segment Description

This segment includes the portion of the stream and all tribs above outlet of unnamed pond P422a in Quackenkill. The waters of this portion of the stream are Class A,A(TS). Tribs to this reach/segment, including Shaver Pond Outlet (-9), Long Pond Outlet (-11) and Lake Elizabeth Outlet (-13), are Class A and C(TS). Lower Quacken Kill is listed separately.

Lake Uses

Long Pond (the largest of these waterbodies) and Second Pond are designated class A(T); Mill Pond is Class A. These classifications indicate the lakes are suitable for use as a water supply, public bathing beach, general recreation and aquatic life support. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

Forest Lake (1301-0267)

NoKnownImpct

Waterbody Location Information

Revised: 04/25/2008

Water Index No:	H-236-22-11-P441	Drain Basin:	Lower Hudson River
Hydro Unit Code:		Str Class:	A
Waterbody Type:	Lake	Reg/County:	4/Rensselaer Co. (42)
Waterbody Size:	18.9 Acres	Quad Map:	TABORTON (K-27-1)
Seg Description:	entire lake		

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

Forest Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 2003 and continuing through 2005. An Interpretive Summary report of the findings of this sampling was published in 2006. These data indicate that the lake continues to be best characterized as mesoligotrophic, or moderately unproductive. Phosphorus levels in the lake are consistently below the state guidance values indicating impacted/stressed recreational uses. Corresponding transparency measurements meet what is the recommended minimum for swimming beaches. Measurements of pH occasionally fall below the state water quality range of 6.5 to 8.5, but are adequate to support aquatic life. The lake water is weakly colored, but color does not limit water transparency. (DEC/DOW, BWAM/CSLAP, February 2006)

Recreational Assessment

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This assessment indicates recreational suitability of the lake to be generally favorable, although less favorable in more recent years. The recreational suitability of the lake is described most frequently as "excellent" to "slightly" impacted in recent years. The lake itself is most often described as "not quite crystal clear" to having "definite algal greenness." These assessments are somewhat less favorable given measured water quality characteristics of the lake. Assessments have noted increasing aquatic plants, but were not identified as growing densely at the lake surface. (DEC/DOW, BWAM/CSLAP, February 2006)

Lake Uses

This lake waterbody is designated class A, suitable for use as a water supply, public bathing beach, general recreation and aquatic life support. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

