



## Hudson/Boreas River Watershed (0202000104)

### Water Index Number

H (portion 11)  
H-409  
H-409-18-P520  
H-419  
H-419  
H-419..P529a,P529  
H-429  
H-429-P540  
H-438  
H-438-20- 1-P555  
H-438-20- 2a-P557  
H-438-30-P561  
H-438-P560  
H-438-P564c  
H-452-P574  
H-453-P576

### Waterbody Segment

Upper Hudson, Upper, and minor tribs (1104-0054)  
Mill Creek and tribs (1104-0032)  
Garnet Lake (1104-0255)  
North Creek, Lower, and tribs (1104-0256)  
North Creek, Upper, and tribs (1104-0257)  
Chatiemac Lake, Ross/Windover Lake (1104-0258)  
Thirteenth Brook and tribs (1104-0030)  
Thirteenth Lake (1104-0260)  
Boreas River and tribs (1104-0261)  
Balfour Lake (1104-0262)  
Stony Pond (1104-0018)  
Wolf Pond (1104-0263)  
Cheney Pond (1104-0264)  
Middle Boreas Pond (1104-0265)  
Huntley Pond (1104-0266)  
Mink Pond (1104-0267)

### Category

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

# Upper Hudson, Upper, and minor tribs ( 1104-0054)      NoKnownImpct

## Waterbody Location Information

Revised: 09/09/2008

**Water Index No:** H (portion 11)      **Drain Basin:** Upper Hudson River  
**Hydro Unit Code:** 02020001/      **Str Class:** C(T)      Upper Hudson  
**Waterbody Type:** River      **Reg/County:** 5/Essex Co. (16)  
**Waterbody Size:** 224.3 Miles      **Quad Map:** NEWCOMB (F-24-0)  
**Seg Description:** stream and select tribs, from North Creek to Newcomb

## 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

Biological (macroinvertebrate) assessments at multiple sites between North Creek and Newcomb were conducted in 2001 and 2002. Sampling results from 2002 indicated non-impacted conditions above the Hudson confluence with Indian River and slightly impacted conditions immediately below the confluence. This impact may be a result of mid-summer rafting releases from Lake Abanakee (see Indian River assessment). It was not determined how far below the confluence the impacts extended. However sampling in North River in 2001 clearly indicated non-impacted water quality conditions. (DEC/DOW, BWAM/SBU, June 2005)

A biological (macroinvertebrate) assessment of Deer Creek near Minerva (at County Route 37) was conducted in 2001. Sampling results indicated non-impacted water quality conditions. The fauna contained many species of clean-water mayflies, stoneflies, and caddisflies. No prior data were available for the stream. (DEC/DOW, BWAM/SBU, June 2005)

### Swimmable Hudson

In response to the improvement in Hudson River water quality since the 1970s, there has been a rise in recreational use and a public call for increased swimming opportunities. Currently swimming occurs in popular anchoring spots along the shore, including areas not designated for swimming. However, in spite of growing use publicly available swimming areas in the Hudson remain limited. To reach the goal of a swimmable Hudson River, the NYSDEC Hudson River Estuary Program: and Division of Water are focusing on four primary areas of water quality impact

1) the need for seasonal disinfection of municipal and other wastewater discharges, 2) the reduction of CSO impacts through appropriate control strategies, 3) implementation and compliance with Phase II Stormwater permit program, and 4) continued support of a vessel No Discharge Zone in the Hudson. While the impetus for the Swimmable Hudson initiative was largely focused on the estuary waters of the Lower Hudson, the effort extends into the Upper Hudson Basin as well and includes disinfection of municipal plant discharges to this this segment (Newcomb WWTP). (DEC/HREP and DEC/DOW, BWAM, May 2008)

This segment includes the portion of the stream and selected/smaller tribs from North Creek (-419) in North Creek to Harris Lake Outlet in Newcomb. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment, including Deer Creek (-428), Aldous Brook (-430), Raquette Brook (-432) and Griffin Brook (-435), Clear Pond Outlet (463), Beaver Brook (-466), Goodnow River (-484), Wolf Creek (-489) and Harris Lake Outlet (-503), are primarily Class C,C(T),C(TS), with portions in the forest preserve. Thirteenth Brook (-429), Boreas River (-438), Indian River (-461) and Cedar River (-469) are listed separately. This segment was previously identified as 1101-0050.

# Mill Creek and tribs (1104-0032)

NoKnownImpct

## Waterbody Location Information

Revised: 07/08/2005

**Water Index No:** H-409  
**Hydro Unit Code:** 02020001/070      **Str Class:** C(T)  
**Waterbody Type:** River  
**Waterbody Size:** 117.6 Miles  
**Seg Description:** entire stream and tribs

**Drain Basin:** Upper Hudson River  
Upper Hudson  
**Reg/County:** 5/Warren Co. (57)  
**Quad Map:** JOHNSBURG (G-25-4)

## 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:**

## Further Details

A biological (macroinvertebrate) assessment of Mill Creek in Wevertown (at Route 8) was conducted in 2001. Sampling results indicated non-impacted water quality conditions. The fauna was dominated by clean-water caddisflies and mayflies, and all metrics were within the range of very good water quality. No prior data were available for the stream. (DEC/DOW, BWAR/SBU, June 2005)

This segment includes the entire stream and all tribs. The waters of the stream are Class C(T). Tribs to this reach/segment, including Vly Brook (-1), Johnson Brook (-2), Kibby Creek (-9) and Pine Ridge Brook (-18), are Class C,C(T),C(TS), with portions in the forest preserve.

# Garnet Lake (1104-0255)

NoKnownImpct

## Waterbody Location Information

Revised: 02/08/2007

<b>Water Index No:</b>	H-409-18-P520	<b>Drain Basin:</b>	Upper Hudson River
<b>Hydro Unit Code:</b>	02020001/070	<b>Str Class:</b>	A
<b>Waterbody Type:</b>	Lake		Upper Hudson
<b>Waterbody Size:</b>	313.6 Acres	<b>Reg/County:</b>	5/Warren Co. (57)
<b>Seg Description:</b>	entire lake	<b>Quad Map:</b>	THIRTEENTH LAKE (G-24-0)

## 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:**

## Further Details

Garnet Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1989 thru 1993 and in 2000-2001. An Interpretive Summary report of the findings of this sampling was published in 2002. These data indicate that the lake continues to be best characterized as mesoligotrophic, or moderately unproductive. This assessment is consistent over a number of sampling seasons. Phosphorus levels in the lake do not exceed the state guidance values indicating impacted/stressed recreational uses. Corresponding transparency measurements consistently exceed the minimum recommended for swimming beaches. Water quality conditions, as measured by water clarity, algal densities, and phosphorus levels, were improved in recent years. While these data do not necessarily represent longer-term trends, they do suggest that water quality conditions are at least stable in the lake. (DEC/DOW, BWAM/CSLAP, October 2002)

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. These assessment indicate recreational suitability of the lake to be highly favorable, consistent with previous assessments. The recreational suitability of the lake is described most frequently as "could not be nicer" and/or "excellent." The lake itself is most often described as "not quite crystal clear," an assessment that is consistent with the perceived water quality conditions in the lake and its measured water quality characteristics. Assessments have noted that aquatic plants occasionally grow to the lake surface. Aquatic plants are dominated by primarily native species and have not been cited as

impacting recreational uses. (DEC/DOW, BWAM/CSLAP, October 2002)

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.

# North Creek, Lower, and tribs (1104-0256)

NoKnownImpct

## Waterbody Location Information

Revised: 07/08/2005

**Water Index No:** H-419  
**Hydro Unit Code:** 02020001/070      **Str Class:** C(T)  
**Waterbody Type:** River  
**Waterbody Size:** 5.8 Miles  
**Seg Description:** stream and tribs from mouth to Holcombville

**Drain Basin:** Upper Hudson River  
Upper Hudson  
**Reg/County:** 5/Warren Co. (57)  
**Quad Map:** NORTH CREEK (G-25-1)

## 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:**

## Further Details

A biological (macroinvertebrate) assessment of North Creek in North Creek (at Route 28) was conducted in 2001. Sampling results indicated non-impacted water quality conditions. The fauna was dominated by mayflies and caddisflies, and all metrics were within the range of non-impacted water quality. No prior data were available for the stream. (DEC/DOW, BWAR/SBU, June 2005)

This segment includes the portion of the stream and all tribs from the mouth to/including unnamed trib (-2) in Holcombville. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment are also Class C(T), with portions in the forest preserve. Upper North Creek is listed separately.

# North Creek, Upper, and tribs (1104-0257)

NoKnownImpct

## Waterbody Location Information

Revised: 07/08/2005

**Water Index No:** H-419  
**Hydro Unit Code:** 02020001/070      **Str Class:** A(T)  
**Waterbody Type:** River  
**Waterbody Size:** 31.5 Miles  
**Seg Description:** stream and tribs above Holcombville

**Drain Basin:** Upper Hudson River  
Upper Hudson  
**Reg/County:** 5/Warren Co. (57)  
**Quad Map:** THIRTEENTH LAKE (G-24-0)

## 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:**

## Further Details

A biological (macroinvertebrate) assessment of North Creek in North Creek (at Route 28) was conducted in 2001. Sampling results indicated non-impacted water quality conditions. The fauna was dominated by mayflies and caddisflies, and all metrics were within the range of non-impacted water quality. Though this sampling point is just below the described segment, it is considered representative of water quality in the upper reach. This segment is listed as being evaluated rather than monitored. No prior data were available for the stream. (DEC/DOW, BWAR/SBU, June 2005)

This segment includes the portion of the stream and all tribs above unnamed trib (-2) in Holcombville. The waters of this portion of the stream are Class A(T). Tribs to this reach/segment, including Straight Brook (-3), Chatiemac Brook (-5) and Bakers Brook (-6), are Class A,A(T), with portions in the forest preserve. Lower North Creek is listed separately.

# Chatiemac Lake, Ross/Windover Lake (1104-0258)

NoKnownImpct

## Waterbody Location Information

Revised: 05/04/2007

**Water Index No:** H-419..P529a,P529  
**Hydro Unit Code:** 02020001/070      **Str Class:** A(T)  
**Waterbody Type:** Lake  
**Waterbody Size:** 124.8 Acres  
**Seg Description:** total area of both lakes

**Drain Basin:** Upper Hudson River  
Upper Hudson  
**Reg/County:** 5/Warren Co. (57)  
**Quad Map:** ()

## 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

Ross/Windover Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1999 and was continued through 2003. An Interpretive Summary report of the findings of this sampling was published in 2004. These data indicate that the lake continues to be best characterized as mesotrophic, or moderately productive. This assessment is consistent over a number of sampling seasons. Phosphorus levels in the lake do not typically exceed the state guidance values indicating impacted/stressed recreational uses. Corresponding transparency measurements frequently exceed the minimum recommended for swimming beaches. Small improvements in water quality conditions, as measured by water clarity, algal densities, and phosphorus levels, in recent years are thought to be within the normal range of variability for this lake. While these data do not necessarily represent longer-term trends, they do suggest that water quality conditions are at least stable in the lake. (DEC/DOW, BWAM/CSLAP, August 2004)

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. These assessment indicate recreational suitability of the lake to be highly favorable, consistent with previous assessments. The recreational suitability of the lake is described most frequently as "excellent." The assessment of the lake itself varies from "not quite crystal clear" to "(having) a definite algae greenness, yellowness or brownness." This assessment is consistent with the water quality characteristics in the lake and is likely attributable in large part to the natural color of the lake.

Assessments have noted that aquatic plants grow to the lake surface. Aquatic plants are dominated by primarily native species and although they have been reported to be dense at time, weed growth has not been cited as impacting recreational uses. (DEC/DOW, BWAM/CSLAP, August 2004)

This lake waterbody is designated class A(T), 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.

# Thirteenth Brook and tribs (1104-0030)

NoKnownImpct

## Waterbody Location Information

Revised: 07/08/2005

**Water Index No:** H-429  
**Hydro Unit Code:** 02020001/060      **Str Class:** C(T)  
**Waterbody Type:** River  
**Waterbody Size:** 38.4 Miles  
**Seg Description:** entire stream and tribs

**Drain Basin:** Upper Hudson River  
Upper Hudson  
**Reg/County:** 5/Warren Co. (57)  
**Quad Map:** THIRTEENTH LAKE (G-24-0)

## 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:**

## Further Details

A biological (macroinvertebrate) assessment of Thirteenth Brook in North River (near Route 28) was conducted in 2001. Sampling results clearly indicated non-impacted water quality conditions. The fauna was dominated by clean-water mayflies. No prior data were available for the stream. (DEC/DOW, BWAR/SBU, June 2005)

Elevated sediment loadings attributed to mining operations in the watershed have been noted in the past. More recently, Mineral Resources and Regional Fisheries staff reports no problems in the past several years. Regional Water staff indicated concerns in 1997, but problems have subsided since. (Mineral Resources, May 2000)

This segment includes the entire stream and all tribs. The waters of the stream are Class C(T). Tribs to this reach/segment, including tribs to Thirteenth Lake, are Class C,C(T),C(TS), with portions in the forest preserve.

# Boreas River and tribs (1104-0261)

NoKnownImpct

## Waterbody Location Information

Revised: 07/08/2005

**Water Index No:** H-438  
**Hydro Unit Code:** 02020001/050      **Str Class:** C(T)  
**Waterbody Type:** River  
**Waterbody Size:** 151.4 Miles  
**Seg Description:** entire stream and tribs

**Drain Basin:** Upper Hudson River  
Upper Hudson  
**Reg/County:** 5/Essex Co. (16)  
**Quad Map:** NEWCOMB (F-24-0)

## 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:**

## Further Details

A biological (macroinvertebrate) assessment of Boreas River in Minerva (at Northwoods Club Road) was conducted in 2001. Sampling results clearly indicated non-impacted water quality conditions. Mayflies, stoneflies, and caddisflies were very numerous in the samples. VanderWhacker Brook, a small tributary of the Boreas River was also sampled in 2001. The macroinvertebrate sample was field-assessed as non-impacted, and was not retained. The fauna contained a diversity of clean-water species of mayflies, stoneflies, and caddisflies. (DEC/DOW, BWAR/SBU, June 2005)

This segment includes the entire stream and all tribs. The waters of the stream are Class C(T), with portion in the forest preserve. Tribs to this reach/segment, including Vanderwacker Creek (-19), Little Vanderwacker Brook (-19-3), Stony Pond Brook (-20), Durgin Brook (-29) and Wolf Pond Brook (-30), are primarily Class C,C(T), with portions in the forest preserve.

# Stony Pond (1104-0018)

# Impaired Seg

## Waterbody Location Information

Revised: 12/08/2006

<b>Water Index No:</b>	H-438-20- 2a-P557	<b>Drain Basin:</b>	Upper Hudson River
<b>Hydro Unit Code:</b>	02020001/050	<b>Str Class:</b>	N
<b>Waterbody Type:</b>	Lake	<b>Reg/County:</b>	5/Essex Co. (16)
<b>Waterbody Size:</b>	64.1 Acres	<b>Quad Map:</b>	SCHROON LAKE (F-25-0)
<b>Seg Description:</b>	entire lake		

## Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Impaired	Known

### Type of Pollutant(s)

Known: ACID/BASE (PH)  
Suspected: ---  
Possible: ---

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

Known: ATMOSPH. DEPOSITION  
Suspected: ---  
Possible: ---

## Resolution/Management Information

<b>Issue Resolvability:</b>	1 (Needs Verification/Study (see STATUS))	
<b>Verification Status:</b>	4 (Source Identified, Strategy Needed)	
<b>Lead Agency/Office:</b>	ext/EPA	<b>Resolution Potential:</b> Low
<b>TMDL/303d Status:</b>	2a (Multiple Segment/Categorical Water, Atmosph Dep))	

## Further Details

Aquatic life support in Stoney Pond is known to be impaired by low pH, a result of atmospheric deposition (acid rain).

Historical surveys of the lake indicate that low pH due to acid deposition is limiting the fishery. Monitoring by DFW (1977) revealed a pH <5.0. Aquatic life is considered to be impaired. This segment is included on the NYS 2006 Section 303(d) List of Impaired Waters. The waterbody was included on Part 2a of the List as an Atmospheric Deposition (Acid Rain) Water. (DEC/DOW, BWAR, 2006)

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

In 2006, NYSDEC established and USEPA approved a TMDL to address acid rain impairment to 143 Adirondack lakes that are located in NYS Forest Preserve lands, including Stoney Pond. Recognizing that the available pH data for many of these lakes is 20-30 years old, the TMDL outlines a phased/adaptive management approach, that initially

relies heavily on monitoring and assessment to determine current conditions, modeling refinements to estimate future conditions, and the implementation of statewide, regional and national efforts to reduce atmospheric loadings causing the impairment. (Impaired Water Restoration Plan/TMDL for Acid Rain Lakes (NYS Forest Preserve, DEC/DOW, BWAM, August 2006)

Note there is some uncertainty as to whether this pond is located in the Upper Hudson or the St. Lawrence Drainage Basin.