



## Hackensack River Watershed (0203010309)

Water Index Number	Waterbody Segment	Category
NJ 1 (portion 1)	Hackensack River/Lake Tappan (1501 0008)	Need Verific
NJ 1 (portion 2)	Hackensack River, Lower, and minor tribs (1501 0026)	Impaired Seg
NJ 1 (portion 3)/P977a	DeForest Lake (1501 0007)	MinorImpacts
NJ 1 4	Nauraushaun Brook, Lower, and tribs (1501 0010)	Impaired Seg
NJ 1 4	Nauraushaun Brook, Upper, and tribs (1501 0028)	UnAssessed
NJ 1/P977a	Minor Tribs to DeForest Lake (1501 0029)	Impaired Seg
NJ 1/P977a 12	West Br.Hackensack, Upper, and tribs (1501 0009)	Impaired Seg
NJ 1/P977a 12 P982b	Lake Lucille (1501 0017)	Need Verific
NJ 1/P977a 13	East Br.Hackensack, Upper, and tribs (1501 0030)	UnAssessed
NJ 1/P977a 13 P984,P984a	Congers Lake, Swartout Lake (1501 0019)	Impaired Seg
NJ 1/P977a 13 P985	Rockland Lake (1501 0021)	UnAssessed
NJ 1a thru e	Minor Tribs to New Jersey (1501 0032)	UnAssessed
NJ 2 thru 4	Minor Tribs to New Jersey (1501 0014)	UnAssessed
NJ 5	Pascack Brook and tribs, within NYS (1501 0015)	Impaired Seg

# Hackensack River/Lake Tappan ( 1501-0008)

Need Verific

## Waterbody Location Information

Revised: 07/14/2008

**Water Index No:** NJ- 1 (portion 1)      **Drain Basin:** Hackensack-Ramapo Rivers  
**Hydro Unit Code:** 02030103/160      **Str Class:** A  
**Waterbody Type:** Lake      **Reg/County:** 3/Rockland Co. (44)  
**Waterbody Size:** 251.8 Acres      **Quad Map:** NYACK (Q-25-4)  
**Seg Description:** entire lake, within NYS

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

Use(s) Impacted	Severity	Problem Documentation
Water Supply	Threatened	Suspected

### Type of Pollutant(s)

Known: ---  
Suspected: ---  
Possible: OTHER POLLUTANTS, Nutrients

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

Known: ---  
Suspected: URBAN/STORM RUNOFF  
Possible: Streambank Erosion

## Resolution/Management Information

**Issue Resolvability:** 1 (Needs Verification/Study (see STATUS))  
**Verification Status:** 1 (Waterbody Nominated, Problem Not Verified)  
**Lead Agency/Office:** DOW/Reg3      **Resolution Potential:** Medium  
**TMDL/303d Status:** n/a

## Further Details

### Overview

Water supply uses of Lake Tappan are thought to be threatened due to the considerable amount of urban, residential and commercial development in the watershed, resulting nonpoint source runoff and possible other discharges.

### NYSDOH Source Waters Assessment

The NYSDOH Source Water Assessment Program (SWAP) 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. Lake Tappan serves as a source water reservoir for the United Water of New Jersey water supply. Although a NYSDOH assessment was not completed for Lake Tappan, an assessment was conducted for upstream water supply reservoirs. These assessments found an elevated susceptibility to contamination for this source of drinking water. The amount of residential land in the assessment area results in elevated potential for pathogens, turbidity, nutrients (and DBP precursors) and pesticides. (NYSDOH, Source Water Assessment Program, 2005)

### Segment Description

This segment includes the portion of Lake Tappan in New York State.

# Hackensack River, Lower, and minor tribs (1501-0026) Impaired Seg

## Waterbody Location Information

Revised: 07/01/2008

**Water Index No:** NJ- 1 (portion 2)      **Drain Basin:** Hackensack-Ramapo Rivers  
**Hydro Unit Code:** 02030103/160      **Str Class:** A  
**Waterbody Type:** River      **Reg/County:** 3/Rockland Co. (44)  
**Waterbody Size:** 17.2 Miles      **Quad Map:** NYACK (Q-25-4)  
**Seg Description:** stream and select tribs, from Lake Tappan to West Nyack

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

Use(s) Impacted	Severity	Problem Documentation
Water Supply	Threatened	Suspected
AQUATIC LIFE	Impaired	Known
RECREATION	Impaired	Known

### Type of Pollutant(s)

Known: ---  
Suspected: UNKNOWN TOXICITY, D.O./Oxygen Demand, Nutrients, Silt/Sediment  
Possible: ---

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

Known: ---  
Suspected: URBAN/STORM RUNOFF, Industrial, Municipal  
Possible: ---

## Resolution/Management Information

**Issue Resolvability:** 1 (Needs Verification/Study (see STATUS))  
**Verification Status:** 2 (Problem Verified, Cause Unknown)  
**Lead Agency/Office:** DOW/Reg3      **Resolution Potential:** Medium  
**TMDL/303d Status:** 3b\*

## Further Details

### Overview

Aquatic life and recreational uses in this portion of the Hackensack River are impaired by unspecified pollutants attributed to municipal/industrial inputs and urban/stormwater runoff. Water supply uses of the river are also considered to be threatened due to the considerable amount of residential development, resulting nonpoint source runoff and possible other discharges.

### Water Quality Sampling

A biological (macroinvertebrate) assessment of the Hackensack River in West Nyack (at Route 15) was conducted in 2002. Sampling results indicated moderately impacted water quality conditions. Biological communities were dominated by facultative caddisflies and midges. Impact Source Determination indicated municipal/industrial influences were the likely source of the impacts. (DEC/DOW, BWAM/SBU, June 2005)

### NYSDOH Source Waters Assessment

The NYSDOH Source Water Assessment Program (SWAP) 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. These reports do not address the safety or quality of treated finished potable tap water. Drinking water supplies in this waterbody include the Nyack Village Water Supply. This assessment found an elevated susceptibility to contamination for this source of drinking water. The amount of residential land in the assessment area results in elevated potential for pathogens, turbidity, nutrients (and DBP precursors) and pesticides. (NYSDOH, Source Water Assessment Program, 2005)

#### Section 303d Listing

The Hackensack River not is currently included on the NYS 2008 Section 303(d) List of Impaired Waters. However this updated assessment suggests it is appropriate to include this waterbody on the 2010 List. Due to the unknown nature of the specific pollutants causing the impairment, it is recommended that the listing be added to Part 3b, as a waterbody for which TMDL development is deferred pending the verification of the pollutant/cause. (DEC/DOW, BWAM/WQAS, June 2008)

#### Segment Description

This segment includes the portion of the stream and selected/smaller tribs from Lake Tappan at the New Jersey border to DeForest Lake in West Nyack. The waters of this portion of the stream are Class A. Tribs to this reach/segment are Class A,AA(T) and C,C(T). Naurausaun Brook (-4) is listed separately.

# DeForest Lake (1501-0007)

# MinorImpacts

## Waterbody Location Information

Revised: 07/01/2008

**Water Index No:** NJ- 1 (portion 3)/P977a  
**Hydro Unit Code:** 02030103/160      **Str Class:** A  
**Waterbody Type:** Lake  
**Waterbody Size:** 720.1 Acres  
**Seg Description:** entire lake

**Drain Basin:** Hackensack-Ramapo Rivers  
**Reg/County:** 3/Rockland Co. (44)  
**Quad Map:** HAVERSTRAW (Q-25-1)

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

Use(s) Impacted	Severity	Problem Documentation
Water Supply	Stressed	Suspected

### Type of Pollutant(s)

Known: ---  
Suspected: NUTRIENTS, SILT/SEDIMENT  
Possible: Pathogens, Salts

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

Known: ---  
Suspected: URBAN/STORM RUNOFF, Streambank Erosion  
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

### Overview

Water supply use of Lake DeForest are thought to experience threats from various pollutants attributed to urban/stormwater runoff and other nonpoint sources.

### NYSDOH Source Waters Assessment

The NYSDOH Source Water Assessment Program (SWAP) 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. These reports do not address the safety or quality of treated finished potable tap water. Drinking water supplies in this waterbody includes the United Water NY water supply. This assessment found an elevated susceptibility to contamination for this source of drinking water. The amount of residential land in the assessment area results in elevated potential for pathogens, turbidity, nutrients (and DBP precursors) and pesticides. (NYSDOH, Source Water Assessment Program, 2005)

# Nauraushaun Brook, Lower, and tribs (1501-0010)

Impaired Seg

## Waterbody Location Information

Revised: 07/01/2008

**Water Index No:** NJ- 1- 4  
**Hydro Unit Code:** 02030103/160      **Str Class:** A  
**Waterbody Type:** River  
**Waterbody Size:** 0.4 Miles  
**Seg Description:** stream and tribs, from mouth to Nauraushaun

**Drain Basin:** Hackensack-Ramapo Rivers  
**Reg/County:** 3/Rockland Co. (44)  
**Quad Map:** NYACK (Q-25-4)

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

Use(s) Impacted	Severity	Problem Documentation
Water Supply	Threatened	Suspected
AQUATIC LIFE	Impaired	Known
RECREATION	Impaired	Known

### Type of Pollutant(s)

Known: ---  
Suspected: UNKNOWN TOXICITY, D.O./Oxygen Demand, Nutrients, Silt/Sediment  
Possible: ---

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

Known: ---  
Suspected: URBAN/STORM RUNOFF  
Possible: Industrial, Municipal

## Resolution/Management Information

**Issue Resolvability:** 1 (Needs Verification/Study (see STATUS))  
**Verification Status:** 2 (Problem Verified, Cause Unknown)  
**Lead Agency/Office:** DOW/Reg3  
**TMDL/303d Status:** 3b\*      **Resolution Potential:** Medium

## Further Details

### Overview

Aquatic life and recreational uses in this portion of Nauraushaun Brook are impaired by unspecified pollutants attributed to urban/stormwater runoff and other nonpoint sources. Water supply uses of the river are also considered to be threatened due to the considerable amount of residential development, resulting nonpoint source runoff and possible other discharges.

### Water Quality Sampling

A biological (macroinvertebrate) assessment of Nauraushaun Brook in Nauraushaun (at Sickletown Road) was conducted in 2002. Sampling results indicated moderately impacted water quality conditions. Biological communities were heavily dominated by facultative caddisflies and midges. Impact Source Determination indicated nonpoint source nutrient enrichment as the likely source of the impacts. (DEC/DOW, BWAM/SBU, June 2005)

### NYSDOH Source Waters Assessment

The NYSDOH Source Water Assessment Program (SWAP) 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. These reports do not address the safety or quality of treated finished potable tap water. Drinking water supplies fed by this waterbody include the Nyack Village Water Supply. This assessment found an elevated susceptibility to contamination for this source of drinking water. The amount of residential land in the assessment area results in elevated potential for pathogens, turbidity, nutrients (and DBP precursors) and pesticides. (NYSDOH, Source Water Assessment Program, 2005)

#### Section 303d Listing

Nauraushaun Brook not is currently included on the NYS 2008 Section 303(d) List of Impaired Waters. However this updated assessment suggests it is appropriate to include this waterbody on the 2010 List. Due to the unknown nature of the specific pollutants causing the impairment, it is recommended that the listing be added to Part 3b, as a waterbody for which TMDL development is deferred pending the verification of the pollutant/cause. (DEC/DOW, BWAM/WQAS, June 2008)

#### Segment Description

This segment includes the portion of the stream and all tribs from the mouth to Sickletown/Blauvelt Road in Nauraushaun. The waters of this portion of the stream are Class A. Upper Nauraushaun Brook is listed separately.



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. These reports do not address the safety or quality of treated finished potable tap water. Drinking water supplies fed by this waterbody include the United Water NY Water Supply. This assessment found an elevated susceptibility to contamination for this source of drinking water. The amount of residential land in the assessment area results in elevated potential for pathogens, turbidity, nutrients (and DBP precursors) and pesticides. (NYSDOH, Source Water Assessment Program, 2005)

#### Section 303d Listing

The waters of this minor tribs segment are not currently included on the NYS 2008 Section 303(d) List of Impaired Waters. However this updated assessment suggests it is appropriate to include this waterbody on the 2010 List. Due to the unknown nature of the specific pollutants causing the impairment, it is recommended that the listing be added to Part 3b, as a waterbody for which TMDL development is deferred pending the verification of the pollutant/cause. (DEC/DOW, BWAM/WQAS, June 2008)

#### Segment Description

This segment includes the total length of selected/smaller tribs to DeForest Lake. Tribs within this segment, including Lower West Branch Hackensack River (-12) and Lower East Branch Hackensack River (-13), are primarily Class A,A(T). Upper West and East Branches Hackensack River are listed separately.

# West Br.Hackensack, Upper, and tribs (1501-0009)

Impaired Seg

## Waterbody Location Information

Revised: 07/01/2008

**Water Index No:** NJ- 1/P977a-12  
**Hydro Unit Code:** 02030103/160      **Str Class:** C(T)  
**Waterbody Type:** River  
**Waterbody Size:** 26.0 Miles  
**Seg Description:** stream and tribs, above Centenary  
**Drain Basin:** Hackensack-Ramapo Rivers  
**Reg/County:** 3/Rockland Co. (44)  
**Quad Map:** HAVERSTRAW (Q-25-1)

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

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

### Type of Pollutant(s)

Known: ---  
Suspected: UNKNOWN TOXICITY, D.O./Oxygen Demand, Nutrients, Silt/Sediment  
Possible: ---

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

Known: ---  
Suspected: URBAN/STORM RUNOFF, Industrial, Municipal  
Possible: ---

## Resolution/Management Information

**Issue Resolvability:** 1 (Needs Verification/Study (see STATUS))  
**Verification Status:** 2 (Problem Verified, Cause Unknown)  
**Lead Agency/Office:** DOW/Reg3      **Resolution Potential:** Medium  
**TMDL/303d Status:** 3b\*

## Further Details

### Overview

Aquatic life and recreational uses in the West Branch Hackensack River are impaired by unspecified pollutants attributed to municipal/industrial inputs and urban/stormwater runoff.

### Water Quality Sampling

A biological (macroinvertebrate) assessment of the West Branch Hackensack River just below this segment in Centenary (at Old Route 304) was conducted in 2002. Sampling results indicated moderately impacted water quality conditions. Biological communities were dominated by facultative caddisflies and midges. Impact Source Determination indicated municipal/industrial influences were the likely source of the impacts. (DEC/DOW, BWAM/SBU, June 2005)

### NYSDOH Source Waters Assessment

The NYSDOH Source Water Assessment Program (SWAP) 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. These reports do

not address the safety or quality of treated finished potable tap water. Though not a Class A water, this waterbody feeds the United Water NY Water Supply. This assessment found an elevated susceptibility to contamination for this source of drinking water. The amount of residential land in the assessment area results in elevated potential for pathogens, turbidity, nutrients (and DBP precursors) and pesticides. (NYSDOH, Source Water Assessment Program, 2005)

#### Section 303d Listing

The West Branch Hackensack River not is currently included on the NYS 2008 Section 303(d) List of Impaired Waters. However this updated assessment suggests it is appropriate to include this waterbody on the 2010 List. Due to the unknown nature of the specific pollutants causing the impairment, it is recommended that the listing be added to Part 3b, as a waterbody for which TMDL development is deferred pending the verification of the pollutant/cause. (DEC/DOW, BWAM/WQAS, June 2008)

#### Segment Description

This segment includes the portion of the stream and all tribs above/including unnamed trib (-3) in Centenary. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment are Class C,C(T). Lower West Branch Hackensack is listed with Tribs to DeForest Lake.

# Lake Lucille (1501-0017)

Need Verific

## Waterbody Location Information

Revised: 07/02/2008

**Water Index No:** NJ- 1/P977a-12-P982b  
**Hydro Unit Code:** 02030103/160      **Str Class:** B  
**Waterbody Type:** Lake  
**Waterbody Size:** 13.3 Acres  
**Seg Description:** entire lake

**Drain Basin:** Hackensack-Ramapo Rivers  
**Reg/County:** 3/Rockland Co. (44)  
**Quad Map:** HAVERSTRAW (Q-25-1)

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

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

### Type of Pollutant(s)

Known: ---  
Suspected: ALGAL/WEED GROWTH (aquatic vegetation), Nutrients, Silt/Sediment  
Possible: ---

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

Known: ---  
Suspected: ON-SITE/SEPTIC SYST, URBAN/STORM RUNOFF  
Possible: Other Source (Waterfowl)

## Resolution/Management Information

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

**Resolution Potential:** Medium

## Further Details

### Overview

Public bathing and recreational uses in Lake Lucille may experience impacts from algal blooms and excessive aquatic weed growth. Excessive nutrient loadings failing and/or inadequate on-site septic systems serving lake shore camps and year-round residences and runoff from urban/suburban development in the watershed are likely contributors to impacts in the lake. Waterfowl (geese) are another possible source of pollutants.

### Water Quality Sampling

Sampling of the lake through the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) was conducted until 1990. Results appear to support that eutrophic conditions occurred in the lake. However additional more recent sampling is recommended in order to verify current conditions. (DEC/DOW, BWAM/CSLAP, May 2008)

### Lake Uses

This lake waterbody is designated class B, suitable for use as a public bathing beach, general recreation and aquatic life support, but not as a water supply. 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.

# Congers Lake, Swartout Lake (1501-0019)

Impaired Seg

## Waterbody Location Information

Revised: 07/14/2008

**Water Index No:** NJ- 1/P977a-13-P984,P984a      **Drain Basin:** Hackensack-Ramapo Rivers  
**Hydro Unit Code:** 02030103/160      **Str Class:** B  
**Waterbody Type:** Lake      **Reg/County:** 3/Rockland Co. (44)  
**Waterbody Size:** 158.6 Acres      **Quad Map:** HAVERSTRAW (Q-25-1)  
**Seg Description:** total area of both lakes

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

Use(s) Impacted	Severity	Problem Documentation
PUBLIC BATHING	Impaired	Known
Aquatic Life	Stressed	Suspected
RECREATION	Impaired	Known
Aesthetics	Stressed	Known

### Type of Pollutant(s)

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

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

Known: URBAN/STORM RUNOFF  
Suspected: Habitat Modification  
Possible: Agriculture

## Resolution/Management Information

**Issue Resolvability:** 1 (Needs Verification/Study (see STATUS))  
**Verification Status:** 4 (Source Identified, Strategy Needed)  
**Lead Agency/Office:** DOW/Reg3      **Resolution Potential:** Medium  
**TMDL/303d Status:** n/a->1\*

## Further Details

### Overview

Public bathing and other recreational uses in Congers and Swartout Lakes are impaired by aquatic weed and algal growth, the result of high nutrient (phosphorus) concentrations and other eutrophic conditions in the lake. Lake clarity is quite limited and silt/sediment loadings are also a concern. Urban runoff and other nonpoint sources are the most significant contributors to the water quality impacts.

### Water Quality Sampling

Both Congers and Swartout Lakes were sampled as part of the NYSDEC Lake Classification and Inventory (LCI) Program in 2003. Results of this sampling indicate that the lakes are best characterized as eutrophic, or highly productive. Average phosphorus levels (120-140 ug/l) in the lakes easily exceed the state guidance values indicating impacted/stressed recreational uses (20 ug/l). Corresponding transparency measurements were less than one meter, failing to meet what is the recommended minimum for swimming beaches. Urban/stormwater runoff in this highly developed urban/suburban watershed are thought to be a significant source of nutrient and silt/sediment loadings. Some of the

remaining agriculture operations in the watershed may also contribute to the water quality impacts on the lake. Outflow from the lakes feed Lake DeForest, a significant reservoir water supply for the county. (DEC/DOW, BWAM/WQMS, October 2005)

#### Lake Uses

This lake waterbody is designated class B, suitable for use as a public bathing beach, general recreation and aquatic life support, but not as a water supply. 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.

#### Section 303d Listing

Conger and Swartout Lakes are not currently included on the NYS 2006 Section 303(d) List of Impaired Waters. However this updated assessment suggests it is appropriate to include this waterbody on the 2008 List. It is recommended that the listing for pathogens also be added to Part 1 of the List as Waterbody Requiring TMDL Development (or other strategy to attain water quality standards).

#### Segment Description

Congers Lake its the larger of the two lakes; it is about 3 times the size of Swartout Lake.

# Pascack Brook and tribs, within NYS (1501-0015)

Impaired Seg

## Waterbody Location Information

Revised: 07/01/2008

**Water Index No:** NJ- 5  
**Hydro Unit Code:** 02030103/160      **Str Class:** C\*  
**Waterbody Type:** River  
**Waterbody Size:** 16.2 Miles  
**Seg Description:** entire stream and tribs

**Drain Basin:** Hackensack-Ramapo Rivers  
**Reg/County:** 3/Rockland Co. (44)  
**Quad Map:** PARK RIDGE, NJ (Q-24-3)

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

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

### Type of Pollutant(s)

Known: ---  
Suspected: SILT/SEDIMENT, UNKNOWN TOXICITY, D.O./Oxygen Demand, Nutrients  
Possible: ---

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

Known: ---  
Suspected: URBAN/STORM RUNOFF, Industrial, Municipal  
Possible: ---

## Resolution/Management Information

**Issue Resolvability:** 1 (Needs Verification/Study (see STATUS))  
**Verification Status:** 2 (Problem Verified, Cause Unknown)  
**Lead Agency/Office:** DOW/Reg3  
**TMDL/303d Status:** 3b\*      **Resolution Potential:** Medium

## Further Details

### Overview

Aquatic life and recreational uses in Pascack Brook are impaired by unspecified pollutants attributed to municipal/industrial inputs and urban/stormwater runoff.

### Water Quality Sampling

A biological (macroinvertebrate) assessment of Pascack Brook in Pearl River (at West Washington Street) was conducted in 2002. Sampling results indicated moderately impacted water quality conditions. Biological communities were dominated by facultative filter-feeding caddisflies and species richness was low. Impact Source Determination indicated municipal/industrial influences were the likely source of the impacts. (DEC/DOW, BWAM/SBU, June 2005)

### Section 303d Listing

Pascack Brook not is currently included on the NYS 2008 Section 303(d) List of Impaired Waters. However this updated assessment suggests it is appropriate to include this waterbody on the 2010 List. Due to the unknown nature of the specific pollutants causing the impairment, it is recommended that the listing be added to Part 3b, as a waterbody for which TMDL development is deferred pending the verification of the pollutant/cause. (DEC/DOW, BWAM/WQAS,

June 2008)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are primarily Class C,C(T), with the lower 100 feet designated Class A. Tribs to this reach/segment are also/primarily Class C.