



Lower West Branch Delaware Watershed (0204010103)

Water Index Number

D-71 (portion 1)
 D-71 (portion 2)
 D-71- 1
 D-71- 1- 1
 D-71- 1-10-P376, P377
 D-71- 2 thru 13 (selected)
 D-71- 4
 D-71- 4-P378, P379, P380
 D-71- 6
 D-71- 6-4-P383
 D-71- 6-5-P381,P382

Waterbody Segment

West Branch Delaware, Lower, Main Stem (1404-0020)
 West Branch Delaware, Lower, Main Stem (1404-0002)
 Sands Creek and minor tribs (1404-0022)
 Upper Bear Brook and tribs (1404-0023)
 Russell Lake, Hathaway Pond (1404-0024)
 Minor Tribs to West Branch Delaware (1404-0026)
 Roods Creek and tribs (1404-0027)
 Silver, Columbia, Crystal Lakes (1404-0028)
 Sherman Creek and tribs (1404-0031)
 Oquaga Lake (1404-0032)
 Blueberry, Laurel Lakes (1404-0033)

Category

No Known Impacts
 Impaired
 Unassessed
 Unassessed
 Unassessed
 Needs Verification
 Unassessed
 Unassessed
 Unassessed
 No Known Impacts
 Impaired

Water Index Number

D-71-10
D-71-10
D-71-10- 6
D-71-10- 6-3-P387
D-71-10- 6-P388,P389,P390
D-71-10- 7
D-71-10-13-P391
D-71-11- 1
D-71-11-P398
D-71-12
D-71-12- 2
D-71-12- 2-P401

Waterbody Segment

Oquaga Creek, Lower, and minor trib (1404-0034)
Oquaga Creek, Upper, and tribs (1404-0035)
Fly Creek and tribs (1404-0036)
Summit Lake/Page Pond (1404-0037)
Fly Pond, Deer Lake, Sky Lake (1404-0038)
Marsh Creek and tribs (1404-0040)
Beaver/Page Pond (1404-0041)
Big Hollow Brook, Upper, and tribs (1404-0043)
Deposit Reservoir (1404-0044)
Cold Spring Creek and minor tribs (1404-0045)
East Branch Cold Spring and tribs (1404-0046)
Beales Pond (1404-0047)

Category

No Known Impacts
No Known Impacts
No Known Impacts
Needs Verification
Impaired
No Known Impacts
No Known Impacts
Unassessed
Unassessed
No Known Impacts
Unassessed
Unassessed

West Branch Delaware, Low, Main Stem (1404-0020) No Known Impact

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71 (portion 1) **Water Class:** A(T)
Hydro Unit Code: Lower West Branch Delaware River (0204010103) **Drainage Basin:** Delaware River
Water Type/Size: River/Stream 7.8 Miles **Reg/County:** 4/Delaware (13)
Description: from mouth to Initial Monument near Hale Eddy

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	Unassessed	-
Public Bathing	Unassessed	-
Recreation	Fully Supporting	Suspected
Aquatic Life	Fully Supporting	Known
Fish Consumption	Fully Supporting	Unconfirmed
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: No Action Needed
Lead Agency/Office: DEC/FWMR
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

This portion of the West Branch Delaware River is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

The West Branch Delaware, Lower, Main Stem is a Class A(T) waterbody, suitable for a public water supply, public bathing, general recreation, and support of aquatic life. The waterbody is also designated as a cold water (trout) fishery.

Aquatic life is considered to be fully supported based on biological sampling that shows non-impacted conditions. There is no evidence of recreation use impacts in the waterbody. There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health Advisories and DEC/DOW, BWAM, February 2016)

There are no fish consumption advisories in place for this waterbody.

Water Quality Information

A biological (macroinvertebrate) assessment of the West Branch in Hancock was conducted in 2014. Sampling results indicated non-impacted water quality conditions and very good water quality. Such samples are dominated by clean water species and are most similar to a natural community with minimal human impacts. Aquatic life community is fully supported. (DEC/DOW, BWAM/SBU, July 2016)

Source Assessment

There are no apparent sources of pollutants to the waterbody. Biological results suggest natural conditions with minimal human disturbance.

Management Action

The management of river flows in the Delaware system to protect the highly regarded fishery resource is particularly challenging. While releases from the upstream New York City water supply Cannonsville Reservoir are generally adequate to alleviate high summer temperatures, other conflicting water uses (NYC water supply, drought management) complicate the issue. Occasionally insufficient reservoir releases result in reduced flow that limits habitat, causes thermal stress, and negatively affects the trout fishery. In other cases, releases of water high in suspended solids may affect water quality in the West branch. These issues are discussed in considerable detail in the Draft Fishery Management Plan for the Upper Delaware Tail waters. (DEC/FWMR, Region 3, June 2000)

Section 303(d) Listing

This segment is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There appear to be no impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

Segment includes the portion of West Branch Delaware River from the mouth to Initial Monument near Hale Eddy. This reach is Class A.

West Branch Delaware, Lower, Main Stem (1404-0002)

Impaired

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71 (portion 2) **Water Class:** B(T)
Hydro Unit Code: Lower West Branch Delaware River (0204010103) **Drainage Basin:** Delaware River
Water Type/Size: River/Stream 13.9 Miles **Reg/County:** 4/Delaware (13)
Description: from Initial Monument to Cannonsville Dam

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Unassessed	-
Recreation	Stressed	Suspected
Aquatic Life	Impaired	Known
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: TEMPERATURE, WATER LEVEL/FLOW
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: HYDRO ALTERATION
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Strategy Implementation Scheduled or Underway
Lead Agency/Office: DEC/FWMR
IR/305(b) Code: Impaired Water, Pollution, not Pollutant (IR Category 4c)

Further Details

Overview

This portion of the West Branch Delaware River is assessed as an impaired waterbody due to aquatic life use support that is known to be impaired due to thermal and impoundment effects on the macroinvertebrate community and potential impacts on the trout fishery. Beyond the hydrologic/impoundment impacts on the benthic macroinvertebrates, water quality in the river is considered good and is adequate to support the fishery.

Use Assessment

West Branch Delaware, Lower, Main Stem is a Class B(T) waterbody, suitable for public bathing, general recreation use and support of aquatic life, but not as a water supply. The waterbody is also designated as a cold water (trout) fishery. Aquatic life is evaluated as impaired based on the sampling that shows significant impacts (DEC, DOW, BWAM, July 2016)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health Advisories and DEC/DOW, BWAM, February 2016)

Water Quality Information

A biological (macroinvertebrate) assessment of West Branch Delaware River in Deposit (at RR Bridge) was conducted as part of the RIBS biological screening effort in 2014. Sampling results indicated moderately impacted conditions. In such samples sensitive species are markedly reduced or missing and the distribution of major groups is significantly unbalanced relative to what would be expected. Samples are dominated by more tolerant species. In this sample, the impacts are attributed to impoundment effects and artificial flow regime related to the cold-water releases to maintain the fishery. Habitat/Hydrology conditions reflect significant human disturbance and likely limit or otherwise influence aquatic life. There are no other apparent sources of impact or water quality issues. (DEC/DOW, BWAM/SBU, July 2016)

Source Assessment

There are no apparent sources of pollutants to the waterbody. Impacts to aquatic life in the stream are the result of hydrologic and temperature modifications.

Management Actions

The management of river flows in the Delaware system to protect the highly regarded fishery resource is particularly challenging. While releases from the upstream New York City water supply Cannonsville Reservoir are generally adequate to alleviate high summer temperatures, other conflicting water uses (NYC water supply, drought management) complicate the issue. Occasionally insufficient reservoir releases result in reduced flow that limits habitat, causes thermal stress, and negatively affects the trout fishery. This issue is discussed in considerable detail in the Draft Fishery Management Plan for the Upper Delaware Tailwaters. (DEC/FWMR, Region 3, June 2000)

Section 303d Listing

This portion of the West Branch Delaware River is not currently included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. Although it is assessed as an impaired water, it is categorized as an IR Category 4c water that is not listed because a TMDL is not appropriate because the sole impairment is the result of pollution, rather than a pollutant that can be allocated through a TMDL. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

Segment includes the portion of West Branch Delaware River from Initial Monument near Hale Eddy to the Cannonsville Dam. This reach is Class B.

Sands Creek and minor tribs (1404-0022)

Unassessed

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71- 1
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: River/Stream 29.1 Miles
Description: entire stream and selected/smaller tribs

Water Class: C(TS)
Drainage Basin: Delaware River
Reg/County: 4/Delaware (13)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Unassessed	-
Aquatic Life	Fully Supported	Unconfirmed
Fish Consumption	Fully Supported	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

The most recent assessment of this waterbody indicated no known impacts, however that assessment is based on older and limited data and sampling to verify conditions is recommended.

Use Assessment

Sands Creek is a Class C(TS) waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply. The waterbody is also designated as a cold water (trout) fishery. Aquatic life water previously found to experience no known impacts, however due to the age of the data (more than 10 years old) additional sampling is needed

to verify current conditions. (DEC/DOW, BWAM/SBU, July 2016)

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this waterbody segment is needed.

Section 303(d) Listing

This segment is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire stream and selected tribs. The waters of the stream are Class C(TS). Tribs to this reach, including Lower Bear Brook (-1), Johnson Brook (-2), Pine Swamp Brook (-4), Dry Brook (-6), are primarily Class C,C(T),C(TS) with some waters designated Class B, B(T). The upper portion of Bear Brook (-1) as well as larger lakes in the watershed are listed separately. (December 2000)

Upper Bear Brook and tribs (1404-0023)

Unassessed

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71- 1- 1
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: River/Stream 0.7 Miles
Description: stream and tribs above water supply dam

Water Class: AA
Drainage Basin: Delaware River
Reg/County: 4/Delaware (13)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	Unassessed	-
Public Bathing	Unassessed	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Use Assessment

This waterbody segment is a Class AA waterbody, suitable for public water supply, public bathing, general recreation use and support of aquatic life.

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in

this waterbody segment is needed.

Section 303(d) Listing

This trib waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the portion of the stream above the water supply dam at P374. The waters of this portion of the stream are Class AA. (December 2000)

Russell Lake, Hathaway Pond (1404-0024)

Unassessed

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71- 1-10-P376, P377
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: Lake/Reservoir 20 Acres
Description: total area of both lake

Water Class: B
Drainage Basin: Delaware River
Reg/County: 4/Delaware (13)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Unassessed	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Use Assessment

This waterbody segment is a Class B waterbody, suitable for public bathing, general recreation use and support of aquatic life, but not as a water supply.

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this

waterbody segment is needed.

Section 303(d) Listing

This trib waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire portion of the lake.

Minor Tribs to West Branch Delaware (1404-0026)

Needs Verification

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71- 2 thru 13 (selected) **Water Class:** C
Hydro Unit Code: Lower West Branch Delaware River (0204010103) **Drainage Basin:** Delaware River
Water Type/Size: River/Stream 35 Miles **Reg/County:** 4/Delaware (13)
Description: selected/smaller tribs from Hancock to Cannonsville Dam

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Unassessed	-
Aquatic Life	Stressed	Unconfirmed
Fish Consumption	Fully Supported	Suspected
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: Nutrients (phosphorus)

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: Agriculture, Unknown Toxicity

Management Information

Management Status: Reassessment Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Minor tribs to West Branch Delaware is assessed as needing verification of minor impacts due to aquatic life use that is thought to be stressed, but this evaluation is based on a single sample and needs to be more fully assessed.

Use Assessment

This waterbody segment is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing. Aquatic life may experience minor impacts, however additional sampling is needed to verify current conditions. The sampling can also be used to infer that there may be minor impacts to recreational uses, although more specific sampling is necessary to confirm this is the case. (DEC/DOW, BWAM/SBU, July 2016)

Water Quality Information

A biological (macroinvertebrate) assessment was this waterbody in Deposit was conducted as part of the RIBS (biological screening) effort in 2014. Aquatic life is considered to be stressed, however this evaluation is noted as unconfirmed because it is based on a single sample; additional sampling to confirm this result is needed. (DEC/DOW, BWAM/SBU,

July 2016)

Source Assessment

Based on the surrounding land use and other knowledge of the waterbody, the possible source of impacts to the waterbody is agriculture.

Management Actions

Additional sampling to verify the condition of this waterbody segment is recommended.

Section 303(d) Listing

This waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There appear to be no impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS. July 2016)

Segment Description

This segment includes the total length of selected/smaller tribs to the West Branch Delaware River between its mouth and the Cannonsville Dam. Tribs within this segment, including Travis Brook (-2), Hungry Hollow Brook (-7), Whitaker Brook (-9) and Butler Brook (-11), are primarily Class C,C(T),C(TS). Sands Creek (-1), Roods Creek (-4), Sand Pond Creek (-6), Oquaga Creek (-10), Upper Big Hollow Brook (-11-1) and Cold Spring Creek (-12) are listed as separate segments. (January 2001)

Roods Creek and tribs (1404-0027)

Unassessed

Waterbody Location Information

Revised: 10/01/2016

Water Index No:	D-71- 4	Water Class:	C(TS)
Hydro Unit Code:	Lower West Branch Delaware River (0204010103)	Drainage Basin:	Delaware River
Water Type/Size:	River/Stream 15.9 Miles	Reg/County:	4/Delaware (13)
Description:	entire stream and tribs		

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supported	Unconfirmed
Aquatic Life	Fully Supported	Unconfirmed
Fish Consumption	Fully Supported	Suspected
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
 Suspected: ---
 Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
 Suspected: ---
 Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

The most recent assessment of this waterbody indicated no known impacts, however that assessment is based on older and limited data and sampling to verify conditions is recommended.

Use Assessment

This waterbody segment is a Class C(TS) waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing. This segment is also designated as a cold water (trout spawning) fishery.

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health

Advisories and DEC/DOW, BWAM, February 2016)

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this waterbody segment is needed.

Section 303(d) Listing

This trib waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C(TS). Tribs to this reach, including Laurel Creek (-1), are primarily Class C(T) with some waters designated Class C. Larger lakes in the watershed are listed separately. (December 2000)

Silver Lake, Columbia, Crystal Lakes (1404-0028)

Unassessed

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71- 4-P378, P379, P380
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: Lake/Reservoir 26.2 Acres
Description: total area of all three lakes

Water Class: B
Drainage Basin: Delaware River
Reg/County: 4/Delaware (13)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Unassessed	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Use Assessment

This waterbody segment is a Class B waterbody, suitable for public bathing, general recreation use and support of aquatic life, but not as a water supply.

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in

this waterbody segment is needed.

Section 303(d) Listing

This trib waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the total area of all three Lakes - Silver Lake (P378), Columbia Lake (P379), Crystal Lake (P380)

Sherman (Sand Pond) Creek and tribs (1404-0031)

Unassessed

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71- 6
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: River/Stream 10 Miles
Description: entire stream and tribs

Water Class: C(T)
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Use Assessment

This waterbody segment is a Class C(T) waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing. This waterbody is also designated as a cold water (trout) fishery.

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this

waterbody segment is needed.

Section 303(d) Listing

This trib waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire stream and all tribs within New York State. The waters of the stream are Class B(T). Tribs to this reach, including Cat Hollow Brook (-2), Starboard Creek (-4) and Laurel Lake Outlet/Sherman Creek (-3-3), are Class C(T) and B. Larger lakes in the watershed are listed separately. (December 2000)

Oquaga Lake (1404-0032)

No Known Impacts

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71- 6-4-P383
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: Lake/Reservoir 133.1 Acres
Description: entire lake
Water Class: AA
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	Fully Supported	Known
Public Bathing	Fully Supported	Known
Recreation	Fully Supported	Known
Aquatic Life	Fully Supported	Unconfirmed
Fish Consumption	Fully Supported	Known
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: Aquatic plants
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: No Action Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Oquaga Lake is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

This waterbody segment is a Class AA waterbody, suitable for a water supply, public bathing and general recreation use, and support of aquatic life.

Public water supply use, public bathing, and recreation uses of Oquaga Lake are all known to be fully supported. Aquatic life use is thought to be fully supported. There are no fish consumption advisories for Oquaga Lake. (DEC/DOW, BWAM, July 2016)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health

Advisories and DEC/DOW, BWAM, February 2016)

Water Quality Information

Water quality sampling of Oquaga Lake has been conducted through the NYSDEC Citizens Statewide Lake Assessment Program (CSLAP) in 1987-1992 and 2002-2014. Results of this sampling indicate the lake is best characterized as mesoligotrophic or moderately productive. Chlorophyll/algal levels are well below criteria corresponding to impacted recreational uses. Phosphorus levels are well below criteria. Lake clarity measurements indicate water transparency consistently meet the recommended minimum criteria for swimming beaches. Readings of pH typically fall within the range established in state water quality standards for protection of aquatic life (DEC/DOW, BWAM/LMAS, July 2016)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

Oquaga Lake is served by the Oquaga Lake Association. A range of general best management practices and other recommendations to restore and protect water quality in all lakes is outlined in the NYSDEC manual Diet for a Small Lake (NYSDEC/FOLA, 2009).

Section 303(d) Listing

This trib waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters.

Segment Description

This segment includes the entire portion of the lake.

Blueberry, Laurel Lakes (1404-0033)

Impaired

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71- 6-5-P381,P382
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: Lake/Reservoir 10.6 Acres
Description: total area of both lakes

Water Class: B
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Impaired	Known
Recreation	Impaired	Known
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: NUTRIENTS (PHOSPHORUS), Chlorophyll *a*
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Restoration/Protection Strategy Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Impaired Water Requiring a TMDL (Category 5)

Further Details

Overview

Laurel Lake is assessed as an impaired waterbody due to public bathing and recreation uses that are thought to be impaired by excessive nutrients resulting in harmful algal blooms.

Use Assessment

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

Elevated algae levels and shoreline algae blooms impair the use of the lake for recreation. Depressed deepwater oxygen and elevated pH levels may stress aquatic life, although no impacts have been measured or reported. Aesthetics of the lake are stressed by excessive algae and algal blooms (DEC/DOW, BWAM/CSLAP, November 2013)

Water quality monitoring by NYSDEC lakes programs focuses primarily on the 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 are not usually collected as part of these monitoring programs. Monitoring to assess public bathing use and assessments of restrictions on fish consumption are generally the

responsibility of state and/or local health departments.

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health Advisories and DEC/DOW, BWAM, February 2016)

Water Quality Information

Laurel Lake has been sampled as part of the Citizens Statewide Lake Assessment Program (CSLAP) in 2012 and 2013, and was sampled by SUNY Oneonta in 2011. CSLAP reports are issued annually and are available on the DEC and NYSFOLA websites.

The CSLAP data indicate that the lake can best be characterized as mesoeutrophic, or moderately to highly productive. Phosphorus levels in the lake regularly exceed the state guidance values of 20 ug/l, and chlorophyll a levels exceed the assessment criteria for impaired lakes, indicative of high algae levels. The lake was consistent with high algae levels measured in the 2011 SUNY Oneonta study of the lake. Lake clarity is often restricted, with water transparency occasionally below the minimum recommended readings for swimming beaches to protect swimmers safety. pH at times exceed the state water quality standards for protection of aquatic life, although no evidence of aquatic life impairments have been documented or reported. (DEC/DOW, BWAM/CSLAP, November 2013)

Both phosphorus and chlorophyll a readings during the summer indicate a high susceptibility to algal blooms generally and harmful algal blooms (HABs) specifically. High levels of blue green algae were found in shoreline blooms reported in both 2012 and 2013. Algal toxin (Microcystis-LR) levels were above the WHO drinking water criteria but below the WHO recreational criteria in bloom samples in both years. Deepwater chemistry samples indicated depressed deepwater oxygen levels near the lake bottom in 2012, consistent with the results from the SUNY Oneonta study. (DEC/DOW, BWAM/CSLAP, November 2013).

CSLAP samplers occasionally describe the lake as being "substantially" impacted for most recreational uses, consistent with occasional reports of "definite algal greenness", poor water clarity, and excessive surface growth of weeds. These recreational use impacts are more likely to be associated with poor clarity than excessive weeds, although additional data may be needed to fully evaluate recreational conditions in the lake (DEC/DOW, BWAM/CSLAP, November 2013)

Source Assessment

The specific sources of phosphorus to Laurel Lake have not been identified. A TMDL should be developed to identify the relative contributions from residential onsite wastewater treatment (septic) systems and nonpoint source runoff from agricultural activities, groundwater transport, stormwater runoff, and internal loading (nutrient recycling) (DEC/DOW, BWAM, November 2013)

Management Actions

A range of general best management practices and other recommendations to restore and protect water quality in all lakes is outlined in NYSDEC manual Diet for a Small Lake (NYSDEC/FOLA, 2009).

Section 303(d) Listing

Laurel Lake is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. This waterbody should be considered for future listing (2018) NYS Section 303(d) List of Impaired/TMDL Waters

Segment Description

This segment includes the entire lake.

Oquaga Creek, Lower, and minor trib (1404-0034)

No Known Impacts

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-10
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: River/Stream 22.3 Miles
Description: stream and selected tribs from mouth to Sanford

Water Class: C(T)
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Reassessment Needed
Lead Agency/Office: DEC/DOW
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

Oquaga Creek is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

Oquaga Creek is a Class C(T), suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing. The waterbody is also designated as a cold water (trout) fishery.

Aquatic life is considered to be fully supported based on biological sampling that shows non-impacted conditions. (DEC/DOW, BWAM/SBU, July 2016)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health

Advisories and DEC/DOW, BWAM, February 2016)

Water Quality Information

A biological (macroinvertebrate) assessment of Oquaga Creek was conducted in Sanford as part of the RIBS (biological monitoring) effort in 2009.

Sampling results indicated non-impacted conditions and very good water quality. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. (DEC/DOW, BWAM/SBU, July 2016)

Source Assessment

There are no apparent sources of pollutants to the waterbody.

Management Actions

No specific management actions have been identified for the waterbody. Given the generally low level of impact, local stakeholders (SWCD/WQCC), with input from regional DOW staff, would be appropriate to oversee protection efforts.

Section 303(d) Listing

Oquaga Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the portion of the stream and selected/smaller tribs from the mouth to Marsh Creek (-10) near Sanford. The waters of this portion of the stream are Class C(T) from the mouth to trib -9 and Class C for the remainder of the reach. Tribs to this reach, including Bone Creek (-1), Tarbell Brook (-3), are primarily Class C,C(T) with some waters designated Class D. Fly Creek (-6) and Marsh Creek (-7) as well as larger lakes in the watershed are listed separately. (December 2000)

Oquaga Creek, Upper, and tribs (1404-0035)

No Known Impacts

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-10
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: River/Stream 51.9 Miles
Description: stream and tribs above Sanford

Water Class: C(T)
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supported	Suspected
Aquatic Life	Fully Supported	Suspected
Fish Consumption	Fully Supported	Suspected
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: No Action Needed
Lead Agency/Office: DEC/DOW
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

Oquaga Creek is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

Oquaga Creek is a Class C(T), suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing. The waterbody is also designated as a cold water (trout) fishery.

Aquatic life is considered to be fully supported based on biological sampling that shows non-impacted conditions. (DEC/DOW, BWAM/SBU, July 2016)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health

Advisories and DEC/DOW, BWAM, February 2016)

Water Quality Information

A biological (macroinvertebrate) assessment of Oquaga Creek was conducted in Sanford as part of the RIBS (biological monitoring) effort in 2009.

Sampling results indicated non-impacted conditions and very good water quality. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. (DEC/DOW, BWAM/SBU, July 2016)

Source Assessment

There are no apparent sources of pollutants to the waterbody.

Management Actions

No specific management actions have been identified for the waterbody. Given the generally low level of impact, local stakeholders (SWCD/WQCC), with input from regional DOW staff, would be appropriate to oversee protection efforts.

Section 303(d) Listing

Oquaga Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the portion of the stream and all tribs above Marsh Creek (-10) near Sanford. The waters of this portion of the stream are Class C from trib -9 to trib -13 and Class C(T) for the remainder of the reach. Tribs to this reach are primarily Class C(T). Marsh Creek (-7) as well as larger lakes in the watershed are listed separately. (December 2000)

Fly Creek and tribs (1404-0036)

No Known Impacts

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-10- 6
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: River/Stream 15.2 Miles
Description: entire stream and tribs

Water Class: B(T)
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Unassessed	-
Recreation	Fully Supporting	Unconfirmed
Aquatic Life	Fully Supporting	Unconfirmed
Fish Consumption	Fully Supporting	Unconfirmed
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: No Action Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water Attaining Some Standards (IR Category 2)

Further Details

Overview

This waterbody is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

Fly Creek and unnamed Tribs is a Class B(T) waterbody suitable for public bathing, general recreation use and support of aquatic life, but not as a water supply. The waterbody is also designated as a cold water (trout) fishery.

Public bathing is considered to be fully supported based on the evaluation of overall recreation use, however bacteriological sampling is needed to more fully evaluate swimming use.

Aquatic life appears to experience no known impacts, however due to the limited data additional sampling is needed to verify current impacts (DEC/DOW, BWAM/SBU, July 2016)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYSDOH Health

Advisories and DEC/DOW, BWAM, February 2016)

Water Quality Information

A biological assessment of Fly Creek and unnamed tribs was conducted at Off Tenant Rd in Windsor as part of RIBS screening effort in 2014. Sampling results indicated non-impacted conditions and very good water quality however this evaluation is noted as unconfirmed because it is based on a single sample; additional sampling to confirm this result is needed.

Source Assessment

There are no apparent sources of pollutants to the waterbody.

Management Actions

No specific management actions have been deemed necessary for the waterbody. However, protective measures should always be considered and implemented wherever possible.

Section 303(d) Listing

Fly Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There appear to be no impacts that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream and all tribs are Class B(T). Larger lakes in the watershed are listed separately. (December 2000)

Summit Lake/Page Pond (1404-0037)

Needs Verification

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-10- 6-3-P387
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: Lake/Reservoir 17.1 Acres
Description: entire lake
Water Class: B
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Fully Supporting	Unconfirmed
Recreation	Fully Supporting	Unconfirmed
Aquatic Life	Fully Supporting	Unconfirmed
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: Chlorophyll *a*

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Verification of Pollutants/Causes Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Summit Lake/Page Pond is currently assessed as needing verification of minor impacts/possible impairment due to aquatic life that may be impaired, but this evaluation is based on a single sample and need to be more fully assessed.

Use Assessment

Summit Lake/Page Pond is a Class B waterbody, suitable for public bathing, general recreation use and support of aquatic life, but not as a water supply.

Public bathing is considered to be fully supported based on the evaluation of overall recreation use, however bacteriological sampling is needed to more fully evaluate swimming use.

Aquatic life appears to experience no known impacts, however due to the limited data additional sampling is needed to verify current impacts (DEC/DOW, BWAM/SBU, July 2016)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific

advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYSDOH Health Advisories and DEC/DOW, BWAM, February 2016)

Water Quality Information

Water quality sampling of Summit Lake/Page Pond has been conducted through the NYSDEC Lake Classification and Inventory (LCI)/Citizens Statewide Lake Assessment Program in 2014. Based on a single sampling event, the lake can be generally characterized as mesotrophic or moderately productive. Chlorophyll a levels are higher than expected and indicate criteria that indicate stressed recreational uses. Lake clarity and phosphorus measurements indicate fully supporting public bathing and recreational uses of the pond. (DEC/DOW, BWAM/LMAS, May 2006)

Source Assessment

Summit Lake/Page Pond watershed is almost entirely forested with little to no developed land. The only developed land within the watershed is associated with a Girl Scout Camp. The camp does include a horse pasture and stable. Some of the buildings at the Camp are served by a wastewater treatment system which discharges downstream of the pond. Other areas of the camp are served by composting toilets or other non-waterborne wastewater management systems. (DOW/BWAM, LCI Report 2012)

Management Actions

A range of general best management practices and other recommendations to restore and protect water quality in all lakes is outlined in the NYSDEC manual Diet for a Small Lake (NYSDEC/FOLA, 2009).

Section 303(d) Listing

Summit Lake/Page Pond is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. However. There are no impacts that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire lake.

Fly Pond, Deer Lake, Sky Lake (1404-0038)

Impaired

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-10- 6-P388,P389,P390
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: Lake/Reservoir 30.7 Acres
Description: total area of all three lakes
Water Class: B
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Impaired	Known
Recreation	Impaired	Known
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ALGAL/PLANT GROWTH, NUTRIENTS (PHOSPHORUS)
Suspected: ---
Unconfirmed: Pathogens

Source(s) of Pollutant(s)

Known: ---
Suspected: ON-SITE/SEPTIC SYST
Unconfirmed: Agriculture

Management Information

Management Status: Verification of Pollutants/Causes Needed
Lead Agency/Office: DOW/Reg7
IR/305(b) Code: Impaired Water Requiring a TMDL (IR Category 5)

Further Details

Overview

Deer Lake is assessed as an impaired waterbody due to elevated nutrient levels that are known to be impaired by inadequate on-site wastewater treatment (septic) systems and other nonpoint sources.

Use Assessment

Deer Lake is a Class B waterbody suitable for public bathing, recreation and support of aquatic life but not as a water supply.

Recreation use and public bathing are considered to be impaired due to elevated nutrients (phosphorus) and excessive algae. Additional bacteriological sampling is needed to more fully evaluate the impact of pathogen levels on public bathing (swimming) use. Non-contact recreation (boating, fishing) is also affected by excessive aquatic vegetation.

Fish Consumption use is considered to be unassessed. There are no health advisories limiting the consumption of fish from this waterbody (beyond the general advice for all waters). However due to the presence of impacts/contaminants in the stream and the uncertainty as to whether the lack of a waterbody-specific health advisory is based on actual sampling, fish consumption use is noted as unassessed, rather than fully supported but unconfirmed. (NYS DOH Health

Advisories and DEC/DOW, BWAM, December 2014)

Water Quality Information

Deer Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 2004 and continuing through the present. An Interpretive Summary report of the findings of this sampling was published in 2009. These data indicate that the lake continues to be best characterized as eutrophic, or highly productive, typical of lakes with low water transparency, high nutrient (primarily phosphorus) levels, and a high susceptibility to algal blooms. Phosphorus levels in the lake typically exceed the state guidance values indicating impacted/stressed recreational uses. Corresponding transparency measurements that regularly fail to meet the recommended minimum for swimming beaches. Measurements of pH typically fall within the state water quality range of 6.5 to 8.5. The lake water is moderately to highly colored, and color does somewhat limit water transparency. (DEC/DOW, BWAM/CSLAP, June 2009)

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 somewhat unfavorable since the lake was first evaluated and continuing through the most recent assessment. The recreational suitability of the lake is described most frequently as "slightly" impacted. The lake itself is most often described as "having definite algal greenness," an assessment that is slightly more favorable than suggested by measured water quality characteristics. Assessments have noted that aquatic plants grow to the lake surface, but excessive density is not reported. Aquatic plants were not conducted on the lake as part of the CSLAP effort. (DEC/DOW, BWAM/CSLAP, June 2009)

Source Assessment

Based on surrounding land use and other knowledge of the waterbody, the most likely source of impacts to the waterbody are inadequate on-site wastewater systems and agriculture.

Management Actions

This waterbody is included on the Section 303(d) List for eventual development of a TMDL.

Section 303(d) Listing:

Fly Pond/Deer Lake Outlet is included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. The waterbody is included on Part 1 of the List as an impaired waterbody requiring a TMDL for phosphorus. This waterbody was first listed on the 2010 List. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description:

This segment includes the total area of both Fly Pond (P388) and Deer Lake (P389) and Sky Lake (P390).

Marsh Creek and tribs (1404-0040)

No Known Impacts

Waterbody Location Information

Revised: 9/18/2002

Water Index No: D-71-10- 7
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: River/Stream 13.8 Miles
Description: entire stream and tribs

Water Class: C(T)
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supported	Unconfirmed
Aquatic Life	Fully Supported	Unconfirmed
Fish Consumption	Fully Supported	Unconfirmed
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Reassessment Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

Marsh Creek and tribs is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

Marsh Creek and tribs is a class C(T) waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing. The waterbody is also designated as a cold water trout fishery.

Aquatic life use was previously found to experience no known impacts, however due to the age of the data (more than 10 years old) additional sampling is needed to verify current conditions. (DEC/DOW, BWAM/SBU, July 2016)

Fish Consumption use is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. There are no health advisories limiting the consumption of fish from this waterbody (beyond the general advice for all waters). (NYS DOH Health

Advisories and DEC/DOW, BWAM, July 2016)

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this waterbody segment is needed.

Section 303(d) Listing

This waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream and all tribs are Class C(T). (December 2000)

Beaver/Page Pond (1404-0041)

No Known Impacts

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-10-13-P391
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: Lake/Reservoir 10 Acres
Description: entire lake
Water Class: C(T)
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supporting	Suspected
Aquatic Life	Fully Supporting	Suspected
Fish Consumption	Fully Supporting	Unconfirmed
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: No Action Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Beaver/Page Pond is currently assessed as no known impacts; all evaluated uses are suspected to be fully supporting.

Use Assessment

Beaver/Page Pond is a Class C(T) waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply. The waterbody is also designated as a cold water trout fishery.

There is no evidence of recreation use impacts in Beaver/Page Pond, consistent with relatively low lake productivity, acceptable water clarity, and the lack of invasive species and excessive aquatic vegetation.

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health

Advisories and DEC/DOW, BWAM, January 2014)

Water Quality Information

Water quality sampling of Beaver/Page Pond has been conducted through the NYSDEC Lake Classification and Inventory (LCI) Program. Results of this sampling indicate the lake is best characterized as mesotrophic or moderately productive. Chlorophyll levels are below criteria corresponding to impacted recreational uses, while phosphorus concentrations are typically somewhat high. Lake clarity measurements indicate water transparency typically meet the recommended minimum criteria for swimming beaches.

Source Assessment

There are no apparent sources of pollutants to the waterbody.

Management Actions

The lake is located at the Amahami Outdoor Program Center, which is owned and operated by the Girl Scouts of NYPENN Pathways. The Amahami Outdoor Program Center is used by girl scouts and other groups as an opportunity for exploring the outdoors and participating in other camp activities. Page Pond is specifically used for swimming and boating by those visiting the program center.

Section 303(d) Listing

Beaver/Page Pond is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There appear to be no impacts that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire area of the Lake.

Big Hollow Brook, Upper, and tribs (1404-0043)

Unassessed

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-11- 1
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: River/Stream 6.4 Miles
Description: stream and tribs above water supply dam

Water Class: A
Drainage Basin: Delaware River
Reg/County: 7/Broome (4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	Unassessed	-
Public Bathing	Unassessed	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Use Assessment

This waterbody segment is a Class A waterbody, suitable for water supply, public bathing, general recreation use, and support of aquatic life.

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in

this waterbody segment is needed.

Section 303(d) Listing

This waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the portion of the stream and all tribs above the water supply dam at P397. The waters of this portion of the stream and tribs are Class A. Deposit Reservoir (P398) is listed separately. (December 2000)

Deposit Reservoir (1404-0044)

Unassessed

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-11-P398
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: Lake/Reservoir 16.2 Acres
Description: entire lake

Water Class: A
Drainage Basin: Delaware River
Reg/County: 4/Delaware (13)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	Unassessed	-
Public Bathing	Unassessed	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Use Assessment

This waterbody segment is a Class A waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing.

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this

waterbody segment is needed.

Section 303(d) Listing

This waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the total area from the water supply dam at P397 to source. Isolated pool (Reservoir) (P398).

Cold Spring Creek and minor tribs (1404-0045)

No Known Impacts

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-12
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: River/Stream 18.8 Miles
Description: entire stream and selected/smaller tribs

Water Class: C(TS)
Drainage Basin: Delaware River
Reg/County: 4/Delaware (13)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	Unassessed	-
Public Bathing	Unassessed	-
Recreation	Fully Supported	Unconfirmed
Aquatic Life	Fully Supported	Unconfirmed
Fish Consumption	Fully Supported	Unconfirmed
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Reassessment Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

The most recent assessment of Cold Spring Brook indicated no known impacts, however that assessment is based on older and limited data and sampling to verify conditions is recommended.

Use Assessment

Cold Spring Creek and minor tribs is a Class C(TS) waterbody suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing. This waterbody is also designated as a cold water (trout) fishery.

A biological (macroinvertebrate) assessment of Cold Spring Brook in Stilesville was conducted in 1999.

Aquatic life was previously found to experience no known impacts, however due to the age of the data (more than 10 years old) additional sampling is needed to verify current conditions.

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health Advisories and DEC/DOW, BWAM, May 2010)

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this waterbody segment is needed.

Section 303(d) Listing

This waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire stream and selected smaller tribs. The waters of the stream are Class C(TS). Tribs to this reach, including Cabin Brook (-3), are primarily Class C,C(T),C(TS). East Branch (-2) and larger lakes in the watershed are listed separately. (December 2000)

East Branch Cold Spring and tribs (1404-0046)

Unassessed

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-12- 2
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: River/Stream 24.8 Miles
Description: entire stream and tribs

Water Class: C(TS)
Drainage Basin: Delaware River
Reg/County: 4/Delaware (13)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supported	Unconfirmed
Aquatic Life	Fully Supported	Unconfirmed
Fish Consumption	Fully Supported	Unconfirmed
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Reassessment Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

The most recent assessment of East Branch Cold Spring Brook in Hamletville indicated no known impacts; however that assessment is based on older and limited data and sampling to verify conditions is recommended.

Use Assessment

East Branch Cold Spring Brook is a Class C(TS) waterbody suitable for general recreation and support of aquatic life but not as a water supply or for public bathing.

A biological (macroinvertebrate) assessment of East Branch Cold Spring Brook in Hamletville was conducted in 1999. Aquatic life was previously found to experience no known impacts, however due to the age of the data (more than 10 years old) additional sampling is needed to verify current conditions. (DEC/DOW, BWAM/SBU, June 2001)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health

Advisories and DEC/DOW, BWAM, May 2010)

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this waterbody segment is needed.

Section 303(d) Listing

This waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C(TS). Tribs to this reach, including Michigan Hollow Brook (-2), Steam Mill Branch (-8), are primarily Class C,C(T),C(TS). Larger lakes in the watershed are listed separately. (December 2000)

Beales Pond (1404-0047)

Unassessed

Waterbody Location Information

Revised: 10/01/2016

Water Index No: D-71-12- 2-P401
Hydro Unit Code: Lower West Branch Delaware River (0204010103)
Water Type/Size: Lake/Reservoir 11.5 Acres
Description: entire lake

Water Class: C
Drainage Basin: Delaware River
Reg/County: 4/Delaware (13)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Unconfirmed: ---

Management Information

Management Status: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview

Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Use Assessment

This waterbody segment is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing.

Water Quality Information

There is currently no water quality information available upon which to base an assessment.

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Baseline sampling to evaluate conditions in this

waterbody segment is needed.

Section 303(d) Listing

This trib waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, October 2016)

Segment Description

This segment includes the entire portion of the Lake.