



Wanaque River Watershed (0203010301)

Water Index Number	Waterbody Segment	Category
NJ 13	Ringwood River and tribs (1501 0064)	UnAssessed
NJ 13 2	Trib of Sterling Forest Lake (1501 0065)	UnAssessed
NJ 13 2 P1021c	Sterling Forest Lake (1501 0066)	UnAssessed
NJ 13 2 P1022	Little Cedar Lake (1501 0067)	UnAssessed
NJ 13 P1025	Sterling Lake (1501 0068)	NoKnownImpct
NJ 14 thru 15	Jenning Creek and tribs (1501 0069)	UnAssessed
NJ P1026	Greenwood Lake (1501 0001)	Impaired Seg
NJ P1026	Tribs to Greenwood Lake (1501 0070)	UnAssessed

Sterling Lake (1501-0068)

NoKnownImpct

Waterbody Location Information

Revised: 07/14/2008

Water Index No:	NJ-13-P1025	Drain Basin:	Hackensack-Ramapo Rivers
Hydro Unit Code:	02030103/060	Str Class:	A
Waterbody Type:	Lake	Reg/County:	3/Orange Co. (36)
Waterbody Size:	293.7 Acres	Quad Map:	GREENWOOD LAKE (Q-23-2)
Seg Description:	entire lake		

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

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability:	8 (No Known Use Impairment)	
Verification Status:	(Not Applicable for Selected RESOLVABILITY)	
Lead Agency/Office:	n/a	Resolution Potential: n/a
TMDL/303d Status:	n/a	

Further Details

NYSDOH Source Water 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. This water supply reservoir provides water to Sterling Lake. Based on the analysis of available information, this drinking water source does not have an elevated susceptibility to contamination. There are no regulated facilities within this watershed and the corresponding land cover does not pose any substantial risks to the source water quality. (NYSDOH, Source Water Assessment Program, 2005)

Greenwood Lake (1501-0001)

Impaired Seg

Waterbody Location Information

Revised: 07/01/2008

Water Index No: NJ-P1026
Hydro Unit Code: 02030103/060 **Str Class:** A(T)?
Waterbody Type: Lake
Waterbody Size: 1074.7 Acres
Seg Description: entire lake, within NYS

Drain Basin: Hackensack-Ramapo Rivers
Reg/County: 3/Orange Co. (36)
Quad Map: GREENWOOD LAKE (Q-23-2)

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

Use(s) Impacted	Severity	Problem Documentation
Public Bathing	Stressed	Known
RECREATION	Impaired	Known
Aesthetics	Stressed	Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH (algal blooms, vegetation), NUTRIENTS (phosphorus)
Suspected: Silt/Sediment
Possible: - - -

Source(s) of Pollutant(s)

Known: ON-SITE/SEPTIC SYST, OTHER SOURCE (nutrient recycling), URBAN/STORM RUNOFF
Suspected: - - -
Possible: - - -

Resolution/Management Information

Issue Resolvability: 3 (Strategy Being Implemented)
Verification Status: 5 (Management Strategy has been Developed)
Lead Agency/Office: ext/WQCC
TMDL/303d Status: 4a (TMDL Complete, Being Implemented, Not Listed)

Resolution Potential: Medium

Further Details

Overview

Recreational uses in Greenwood Lake are impaired by are impaired by algal blooms and excessive aquatic weed growth, the result of elevated phosphorus loadings. The sources of these loads include nonpoint urban/stormwater runoff, residential on-site wastewater treatment systems and in lake recycling of nutrients.

Water Quality Sampling

Various water quality studies have been conducted on the lake. These studies show that the annual in-lake concentration of phosphorus between 1981 and 2001 ranged from about 20 to 40 ug/l, with an average concentration of 32 ug/l of total phosphorus. These results compare well with the results of a modeling effort conducted by NJDEP to support TMDL development for the lake. Additional monitoring to evaluate the contributions of various sources to nutrient loads in the lake is continuing. (Greenwood Lake TMDL, DEC/DOW, BWAM/WQMS, September 2005)

Water Quality Management

Complementary Section 319(h) Nonpoint Source Grants in New York and New Jersey were funded in 2004 develop and

implement a Lake Characterization and Restoration Plan for Greenwood Lake. The grant will provide monitoring data for the development of a Phase II TMDL, prioritization of stormwater issues on a sub-watershed basis, and in-the-ground installation of stormwater BMPs based on the prioritization. The effort will also provide refined source estimates based on the monitoring, reduction efficiencies, and address the ecological nuances of the shallow NJ portion of the lake and the deeper NY portion. (DEC/DOW, BWAM/WQMS, September 2005)

Section 303d Listing

Greenwood Lake was included on the NYS 2004 Section 303(d) List of Impaired Waters. However a TMDL was established for the lake in September 2005 and the lake was delisted during development of the 2008 Section 303(d) List. (DEC/DOW, BWAM/WQAS, May 2006)

Segment Description

This segment includes the northern portion of the lake that lies within New York State. This represents about 57% of the 1,884 acre lake, the remainder of the lake lies in New Jersey.