



## Indian/Red Lake Watershed (0415030304)

### Water Index Number

- SL-25- 7/P1- 3 (portion 1)
- SL-25- 7/P1- 3- 3
- SL-25- 7/P1- 3- 3-P50a
- SL-25- 7/P1- 3- 4-P 5
- SL-25- 7/P1- 3-11-P 8
- SL-25- 7/P1- 3-17-P 9
- SL-25- 7/P1- 3-19-P10
- SL-25- 7/P1- 3-22

### Waterbody

- [Indian River, Lower, and minor tribs \(0906-0021\)](#)
- [Pleasant Lake Outlet and tribs \(0906-0034\)](#)
- [Pleasant Lake \(0906-0035\)](#)
- [Mud Lake \(0906-0036\)](#)
- [Muskellunge Lake \(0906-0037\)](#)
- [Lake of the Woods \(0906-0038\)](#)
- [Red Lake \(0906-0039\)](#)
- [Black Creek and tribs \(0906-0040\)](#)

### Category

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

# Indian River, Lower, and minor tribs ( 0906-0021)

NoKnownImpct

## Waterbody Location Information

Revised: 12/12/2008

**Water Index No:** SL-25- 7/P1- 3 (portion 1)      **Drain Basin:** Saint Lawrence River  
**Hydro Unit Code:** 04150303/060      **Str Class:** C      Indian River  
**Waterbody Type:** River      **Reg/County:** 6/St.Lawrence Co. (45)  
**Waterbody Size:** 114.7 Miles      **Quad Map:** HAMMOND (D-18-1)  
**Seg Description:** stream and select tribs, from mouth to Rivergate

## Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

| Use(s) Impacted  | Severity | Problem Documentation |
|------------------|----------|-----------------------|
| NO USE IMPAIRMNT |          |                       |

### Type of Pollutant(s)

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

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

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

## Resolution/Management Information

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

## Further Details

### Water Quality Sampling

A biological (macroinvertebrate) assessment of the Indian River at Rossie (at Mill Road) was conducted in 2004 during the RIBS Biological Screening effort in the basin. Sampling results indicated non-impacted water quality conditions. Impact source determination did indicate some influence on the community from siltation and non-point source nutrient enrichment. In spite of these minor impacts aquatic life is considered to be fully supporting in the stream. (DEC/DOW, BWAM/SBU, November 2008)

### Previous Assessments

Previously reported impacts to recreational uses (boating, etc) and aesthetics of the Indian River were related to a sewage discharge from a failed municipal WWTP serving the Village of Theresa. However the failed system was replaced by a RBC treatment system which went on line in September 1998. Other previously listed water quality concerns in the river includes agricultural activities. However, the Jefferson County SWCD reported that agriculture-related problems are not significant and as a result this source is no longer listed. Hydrologic modification was also a previous concern, but new FERC licenses, which impose minimum flow requirements at Theresa, appear to have addressed this problem. (DEC/DOW Region 6 and Bureau of Habitat, April 1998)

### Segment Description

This segment includes the portion of the stream and selected/smaller tribs from the mouth to Otter Creek (-23) in Rivergate. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Bostwick Creek (-1), Dodds Creek (-6), Muskellunge Lake Outlet (-11) and Red Lake Outlet (-19), are also Class C. Pleasant Lake Outlet (-3), Black Creek (-22) and Otter Creek (-23) are listed separately.

# Lake of the Woods ( 0906-0038)

NoKnownImpct

## Waterbody Location Information

Revised: 11/13/2008

|                         |                       |                     |                      |
|-------------------------|-----------------------|---------------------|----------------------|
| <b>Water Index No:</b>  | SL-25- 7/P1- 3-17-P 9 | <b>Drain Basin:</b> | Saint Lawrence River |
| <b>Hydro Unit Code:</b> | 04150303/060          | <b>Str Class:</b>   | C                    |
| <b>Waterbody Type:</b>  | Lake                  | <b>Reg/County:</b>  | 6/Jefferson Co. (23) |
| <b>Waterbody Size:</b>  | 168.4 Acres           | <b>Quad Map:</b>    | FORESTPORT (H-20-1)  |
| <b>Seg Description:</b> | 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

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

## Further Details

### Water Quality Sampling

Lake of the Woods has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1994 and most recently from 1999 through 2005. An Interpretive Summary report of the findings of this sampling was published in 2006. These data indicate that the lake continues to be best characterized as oligotrophic, or highly unproductive. Indications of higher productivity in the most recent sampling year is likely within the range of natural variability. Phosphorus levels in the lake fall well below the state guidance values indicating impacted/stressed recreational uses. Corresponding transparency measurements significantly exceed what is 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 weakly colored, but color does not limit water transparency. (DEC/DOW, BWAM/CSLAP, June 2006)

### Recreational Assessment

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This assessment indicates recreational suitability of the lake to be very favorable since the lake was first evaluated and continuing through the most recent assessment. The recreational suitability of the lake is described most frequently as "could not be nicer" and "excellent." The lake itself is most often described as "not quite crystal clear," an assessment that is slightly less favorable than expected given the measured water quality characteristics. Assessments have noted that aquatic plants grow to the lake surface, but not densely. Aquatic plants are dominated by a mix of native and non-native species, including Eurasian

milfoil and have been occasionally cited as impacting recreational uses. (DEC/DOW, BWAM/CSLAP, June 2006)

#### Lake Uses

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

# Red Lake ( 0906-0039)

# Impaired Seg

## Waterbody Location Information

Revised: 12/08/2008

|                         |                       |                     |                           |
|-------------------------|-----------------------|---------------------|---------------------------|
| <b>Water Index No:</b>  | SL-25- 7/P1- 3-19-P10 | <b>Drain Basin:</b> | Saint Lawrence River      |
| <b>Hydro Unit Code:</b> | 04150303/060          | <b>Str Class:</b>   | C                         |
| <b>Waterbody Type:</b>  | Lake                  | <b>Reg/County:</b>  | 6/Jefferson Co. (23)      |
| <b>Waterbody Size:</b>  | 360.6 Acres           | <b>Quad Map:</b>    | MUSKELLUNGE LAKE (D-18-4) |
| <b>Seg Description:</b> | entire lake           |                     |                           |

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

| Use(s) Impacted  | Severity | Problem Documentation |
|------------------|----------|-----------------------|
| FISH CONSUMPTION | Impaired | Known                 |

### Type of Pollutant(s)

Known: METALS (mercury)  
Suspected: - - -  
Possible: - - -

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

Known: - - -  
Suspected: ATMOSPH. DEPOSITION  
Possible: Tox/Contam. Sediment

## Resolution/Management Information

|                             |   |                                     |
|-----------------------------|---|-------------------------------------|
| <b>Issue Resolvability:</b> | 1 (Needs Verification/Study (see STATUS))         |                                     |
| <b>Verification Status:</b> | 4 (Source Identified, Strategy Needed)            |                                     |
| <b>Lead Agency/Office:</b>  | ext/EPA   | <b>Resolution Potential:</b> Medium |
| <b>TMDL/303d Status:</b>    | 4a (TMDL Complete, Being Implemented, Not Listed) |                                     |

## Further Details

### Overview

Fish consumption in Red Lake is impaired by health advisories that recommend restricting the consumption of fish from the lake. Mercury contamination from atmospheric deposition is the suspected source of the impairment.

### Fish Consumption

Fish consumption in Red Lake is impaired due to a NYSDOH health advisory that recommends eating no more than one meal per month of walleye because of elevated mercury levels. The source of mercury is considered to be atmospheric deposition, as there are not other apparent sources in the lake watershed. The advisory for this lake was first issued in 2005-06. (2006-07 NYSDOH Health Advisories and DEC/DFWMR, Habitat, January 2008).

### Total Maximum Daily Load

In 2007, The New England Interstate Water Pollution Control Commission (NEIWPC), on behalf of its member states including New York, submitted and USEPA approved a TMDL to address mercury deposition in lakes throughout the Northeastern United States, including Red Lake. The Northeast Regional Mercury TMDL notes that between 1998 and 2002 the Northeast states reduced in-region deposition of mercury by more than 70 percent. In addition these state have enforceable controls in place to meet the remaining reduction goals. Despite these reductions water quality impairment due to mercury still exists and elevated mercury levels in certain fish species remain great concern. The TMDL shows the

demonstrates that the need for significant reductions in the mercury reaching waters of the Northeast from sources outside the region by way of atmospheric deposition is essential to restoring these waters. (Northeast Regional Mercury TMDL, NEIWPC, 2007)

#### Section 303(d) Listing

Red Lake was included on the NYS 2006 Section 303(d) List of Impaired Waters, but is not included on the 2008 List. The lake was delisted in 2008 due to the completion of the Northeast Regional Mercury TMDL which was approved in 2007. (DEC/DOW, BWAM, December 2008)