



Lower Moose River Watershed (0415010106)

Water Index Number	Waterbody Segment	Category
Ont 19- 81	Moose River and minor tribs (0801-0226)	NoKnownImpct
Ont 19- 81- 2,4	Upper Beauty, Upper Deer Creeks (0801-0347)	UnAssessed
Ont 19- 81- 7	Copper Creek and tribs (0801-0348)	UnAssessed
Ont 19- 81- 7- 1-10..P699,P700	Pine Lake, East Pine Pond (0801-0349)	UnAssessed
Ont 19- 81- 7- 1..P702 thru P708	Minor Lakes Trib to Upper Pine Creek (0801-0072)	Impaired Seg
Ont 19- 81- 7-P710	Copper Lake (0801-0350)	UnAssessed
Ont 19- 81-14- 2-P713	Twin Sister Lake (0801-0351)	UnAssessed

and water toxicity suggests continued monitoring of conditions is warranted. (DEC/DOW, BWAM/RIBS, January 2005)

Biological (macroinvertebrate) screening of the Moose River in Fowlersville (at Fowlersville Road) was conducted in 2002 and 1996-97. Sampling results indicated non-impacted water quality conditions in 2002. The fauna was diverse and all screening criteria for waters having no known impacts were met. Sampling in 1997 revealed slightly impacted water quality. Hellgrammites collected from this site in 1997 analyzed for metals found none exceeding levels of concern. Analysis of hellgrammites for presence of organic compounds found no chlorinated hydrocarbon pesticides, nitrogen phosphorus pesticides, or PCBs above detection levels. However, one PAH - chrysene - exceeded its level of concern. In spite of this finding, aquatic life support is considered to be fully supported in the river, and there are no other apparent water quality impacts. Biological sampling was also conducted on the Moose River in McKeever (at Route 28) just below the confluence of the South and Middle Branches in 2003 and 1996. At both sites the habitat was good, and the resident invertebrate fauna was quite diverse. Water quality indices revealed water quality to be non-impacted/excellent. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream and selected/smaller tribs from the mouth to Middle Branch Moose River (-18) in McKeever. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment, including Lower Beauty Creek (-2), Paint Creek (-3), Lower Deer Creek (-4), Black Creek (-8) and Twin Sister Creek (-14), are also Class C,C(T). Upper Beauty Creek, Upper Deer Creek, Copper Creek (-7), Middle Branch Moose River (-18) and the remainder of Moose River (also known as South Branch Moose River) are listed separately.

Minor Lakes Trib to Upper Pine Creek (0801-0072)

Impaired Seg

Waterbody Location Information

Revised: / /

Water Index No: Ont 19- 81- 7- 1..P702 thru P708 **Drain Basin:** Black River
Hydro Unit Code: 04150101/070 **Str Class:** C(T) Black River
Waterbody Type: Lake **Reg/County:** 6/Herkimer Co. (22)
Waterbody Size: 136.1 Acres **Quad Map:** MCKEEVER (G-20-0)
Seg Description: total area of selected lakes

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

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

Resolution/Management Information

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

Further Details

Aquatic life support in the waters of this segment are thought to be impaired by low pH, a result of atmospheric deposition (acid rain).

Historical surveys of some of these waters indicate that low pH due to acid deposition is limiting the fishery. Monitoring by ALSC (1984) revealed a pH <5.0 and no presence of fish. Aquatic life in this segment is considered to be impaired. The waters of this segment are included on the NYS 2006 Section 303(d) List of Impaired Waters. Lost Lake is included on Part 2a of the List as an Atmospheric Deposition (Acid Rain) Water in Appendix A as a Smaller Lake Impaired by Acid Rain. Because there is no data indicating impact on the other lakes in this segment, impairment to this segment is listed as suspected. (DEC/DOW, BWAM, 2006)

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

This segment includes multiple lakes/ponds within the Upper Pine Creek Watershed; including Lost Lake (P702),

Middle Settlement Lake (P704), Cedar Pond (P705), Grass Pond (P706), Middle Branch Lake (P707) and Little Pine Lake (P708).