



Middle Grass River Watershed (0415030404)

Water Index Number

SL- 2 (portion 3)
 SL- 2 (portion 4)
 SL- 2 (portion 5)
 SL- 2-25
 SL- 2-25- 2
 SL- 2-25- 2-22-P290
 SL- 2-25- 3
 SL- 2-25- 3-12-P291
 SL- 2-25- 3-12-P292
 SL- 2-25- 3-18-P293
 SL- 2-45
 SL- 2-45-11- 3-P295
 SL- 2-45-15-P296
 SL- 2-45-17-P299,P300
 SL- 2-45..P301,P302,P303

Waterbody

Grass River, Middle, and tribs (0904-0015)
 Grass River, Upper, and minor tribs (0904-0016)
 Grass River, Upper, and minor tribs (0904-0017)
 Harrison Creek and minor tribs (0904-0022)
[Elm Creek and tribs \(0904-0023\)](#)
 Cedar Lake (0904-0024)
[Tanner Creek and tribs \(0904-0025\)](#)
 Huckleberry Lake (0904-0026)
 Moon Lake (0904-0027)
 Trout Lake (0904-0028)
[Plumb Brook and tribs \(0904-0029\)](#)
 Worden Pond (0904-0030)
 Sweet Pond (0904-0031)
 Orebed Ponds (0904-0032)
 Long Pond, Greenfield Pond, Round Pond (0904-0033)

Category

UnAssessed
 UnAssessed
 UnAssessed
 UnAssessed
 NoKnownImpct
 UnAssessed
 MinorImpacts
 UnAssessed
 UnAssessed
 UnAssessed
 UnAssessed
 NoKnownImpct
 UnAssessed
 UnAssessed
 UnAssessed
 UnAssessed

Elm Creek and tribs (0904-0023)

NoKnownImpct

Waterbody Location Information

Revised: 02/13/2009

Water Index No: SL- 2-25- 2
Hydro Unit Code: 04150304/050 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 133.0 Miles
Seg Description: entire stream and tribs

Drain Basin: Saint Lawrence River
Grass River
Reg/County: 6/St.Lawrence Co. (45)
Quad Map: HERMON (D-20-1)

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

NYSDEC Rotating Intensive Basin Studies (RIBS) Intensive Network monitoring of Elm Creek in Hermon, Saint Lawrence County, (at Jefferson Road) was conducted in 2005. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, sediment and invertebrate tissues analysis and toxicity evaluation. During this sampling the biological (macroinvertebrate) sampling results indicated non-impacted water quality conditions. Impact Source Determination indicated natural conditions. Water column sampling revealed no parameters of concern. Macroinvertebrates collected at this site and chemically analyzed for selected PAHs, PCBs, and organochlorine pesticides found elevated levels of pesticides (DDT and DDD). Sediment screening for acute toxicity indicated some toxicity may be present, however, sediments were not found to contain any contaminants at levels of concern and, based on sediment quality guidelines developed for freshwater ecosystems, overall sediment quality is not likely to cause chronic toxicity to sediment-dwelling organisms. Chronic toxicity testing using water from this location showed no significant mortality or reproductive effects on the test organism. Based on the consensus of these established assessment methods, overall water quality at this site indicates that in spite of some concerns that should continue to be monitored (pesticides), aquatic life and recreational uses are fully supported in the stream. (DEC/DOW, BWAM/RIBS, January 2009)

A biological (macroinvertebrate) assessment of Elm Creek at Hermon (at Jefferson Street) was conducted in 2004 during the RIBS Biological Screening effort in the basin. Sampling results indicated non-impacted water quality conditions. The nutrient

biotic index indicated mesotrophic conditions due to phosphorus and eutrophic conditions due to nitrate. The macroinvertebrate community was dominated by facultative riffle beetles and filter feeding caddisflies, likely a result of the slightly enriched conditions. The good quality riffle habitat at this site was ideal for colonization of clean water macroinvertebrate taxa. Impact source determination suggested a natural community with some nutrient enrichment. In spite of these minor impacts, aquatic life is considered to be fully supported in the stream.

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C,C(T). Tribs to this reach/segment, including Cancross Creek (-18), Cedar Lake Stream (-22) and Mill Brook (-25), are Class C,C(T) and D.

Tanner Creek and tribs (0904-0025)

MinorImpacts

Waterbody Location Information

Revised: 01/05/2009

Water Index No: SL- 2-25- 3
Hydro Unit Code: 04150304/050 **Str Class:** C
Waterbody Type: River
Waterbody Size: 117.3 Miles
Seg Description: entire stream and tribs

Drain Basin: Saint Lawrence River
Grass River
Reg/County: 6/St.Lawrence Co. (45)
Quad Map: HERMON (D-20-1)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Known

Type of Pollutant(s)

Known: NUTRIENTS (phosphorus)
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: AGRICULTURE, Urban/Storm Runoff
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: ext/WQCC
TMDL/303d Status: n/a

Resolution Potential: Medium

Further Details

Overview

Aquatic life support in Tanner creek are known to experience minor impacts due to elevated nutrient loadings from agricultural and other nonpoint sources.

Water Quality Sampling

A biological (macroinvertebrate) assessment of Tanner Creek at Hermon (at Pooler Road) was conducted in 2004 during the RIBS Biological Screening effort in the basin. Sampling results indicated slightly impacted water quality conditions. The macroinvertebrate fauna was dominated by filter feeding caddisflies and non-biting midges. The nutrient biotic index suggested eutrophic conditions for phosphorus and mesotrophic conditions for nitrate. Impact Source Determination supported this result and identified non-point source nutrient enrichment as the dominant stressor. The macroinvertebrate fauna was dominated by facultative filter feeding caddisflies in the family Hydropsychidae. In spite of these minor impacts, aquatic life is considered to be fully supported in the stream. (DEC/DOW, BWAM/SBU, December 2008)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C. Tribs to this reach/segment, including Carter Creek (-12), Brandy Brook (-16) and Trout Lake Outlet (-18), are also Class C.

Plumb Brook and tribs (0904-0029)

NoKnownImpct

Waterbody Location Information

Revised: 01/15/2009

Water Index No: SL- 2-45
Hydro Unit Code: 04150304/040 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 115.4 Miles
Seg Description: entire stream and tribs

Drain Basin: Saint Lawrence River
Grass River
Reg/County: 6/St.Lawrence Co. (45)
Quad Map: HERMON (D-20-1)

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
TMDL/303d Status: n/a

Resolution Potential: n/a

Further Details

Water Quality Sampling

A biological (macroinvertebrate) assessment of Plumb Brook, South of Russell (at Blanchard Hill Rd.) was conducted in 2004 during the RIBS Biological Screening effort in the basin. The sample was collected, retained, subsampled and sorted to major groups of organisms but detailed identification was not performed. The sample was field assessed as meeting screening criteria and water quality was evaluated to be very good. The sorted sample was dominated by mayflies, caddisflies and midges. (DEC/DOW, BWAM/SBU, December 2008)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C(T). Tribs to this reach/segment, including Orebed Creek (-17), are Class C,C(T),C(TS) and D.