



## Salmon River Watershed (0414010207)

Water Index Number	Waterbody Segment	Category
Ont 53 (portion 1)	Salmon River, Lower, and minor tribs (0303 0016)	Impaired Seg
Ont 53 (portion 2)/P18a	Lower Salmon River Reservoir (0303 0067)	Impaired Seg
Ont 53 (portion 3)	Salmon River, Middle, and tribs (0303 0068)	Impaired Seg
Ont 53 (portion 4)/P19a	Salmon River Reservoir (0303 0069)	Impaired Seg
Ont 53 5	Trout Brook and tribs (0303 0071)	UnAssessed
Ont 53 6	Orwell Brook and tribs (0303 0072)	NoKnownImpct
Ont 53 6 2 1 1 1 P12	Gowdy Pond (0303 0073)	UnAssessed
Ont 53 8 1 P15	Bud Lee Pond (0303 0074)	UnAssessed

## Salmon River, Lower, and minor tribs (0303-0016)

## Impaired Seg

### Waterbody Location Information

Revised: 04/13/2007

<b>Water Index No:</b>	Ont 53 (portion 1)	<b>Drain Basin:</b>	Lake Ontario
<b>Hydro Unit Code:</b>	04140102/060	<b>Str Class:</b>	C(T)
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	7/Oswego Co. (38)
<b>Waterbody Size:</b>	86.9 Miles	<b>Quad Map:</b>	PULASKI (G-16-4)
<b>Seg Description:</b>	stream and select tribs, from mouth to abv Altmar		

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

<b>Use(s) Impacted</b>	<b>Severity</b>	<b>Problem Documentation</b>
FISH CONSUMPTION	Impaired	Known

#### Type of Pollutant(s)

Known: PRIORITY ORGANICS (PCBs), PESTICIDES (mirex)  
Suspected: ---  
Possible: ---

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

Known: TOX/CONTAM. SEDIMENT  
Suspected: ---  
Possible: ---

### 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>	2b (Multiple Segment/Categorical Water, Fish Consumption)	

### Further Details

Fish consumption in the Salmon River is known to be impaired due to a fish consumption advisory, the result of past/historic discharges.

Fish consumption in the Salmon River is impaired due to a NYS DOH health advisory that recommends eating no more than one meal per month of smallmouth bass because of elevated PCB and Mirex levels. The source of PCBs and Mirex is contaminated sediments from past/historic industrial discharges. The advisory for this lake was first issued prior to 1998-99. An advisory for Lake Ontario (and all tribs to the first barrier) also applies to the bay. The Lake Ontario advisory recommends eating no American eel, channel catfish, carp, chinook salmon, lake trout (over 25") or brown trout (over 20"). The advisory also recommends that consumption of white perch, white sucker, rainbow trout, smaller lake and brown trout, and coho salmon (over 25") be limited to no more than one meal per month. The fish consumption advisories are a result of PCB, mirex and dioxin contamination of lake sediments. (2006-07 NYS DOH Health Advisories and DEC/DFWMR, Habitat, December 2006).

A biological (macroinvertebrate) assessment of the Salmon River in Pulaski (at Route 2A) was conducted in 2001. Sampling results indicated non-impacted water quality conditions. These results are consistent with sampling conducted

at the site in 1995, 1996, 1999 and 2000. The river continues to exhibit excellent water quality and a diverse macroinvertebrate community. (DEC/DOW, BWAM/SBU, June 2005)

The Salmon River is included on the NYS 2006 Section 303(d) List of Impaired Waters. The lake is included on Part 2b of the List as a Fish Consumption Water.

This segment includes the portion of the stream and select/smaller tribs from the mouth to Lower Salmon Reservoir (P18a) above Altmar. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment, including Mud Creek (-1), Spring Brook (-2) and Beaverdam Brook (-8), are also Class C,C(T). Trout Brook (-5), Orwell Creek (-7) and Middle/Upper Salmon River are listed separately.

## Lower Salmon River Reservoir (0303-0067)

## Impaired Seg

### Waterbody Location Information

Revised: 04/13/2007

<b>Water Index No:</b>	Ont 53 (portion 2)/P18a	<b>Drain Basin:</b>	Lake Ontario
<b>Hydro Unit Code:</b>	04140102/060	<b>Str Class:</b>	C(T)
<b>Waterbody Type:</b>	Lake®	<b>Reg/County:</b>	7/Oswego Co. (38)
<b>Waterbody Size:</b>	166.3 Acres	<b>Quad Map:</b>	ORWELL (G-17-4)
<b>Seg Description:</b>	entire reservoir		

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

<b>Use(s) Impacted</b>	<b>Severity</b>	<b>Problem Documentation</b>
FISH CONSUMPTION	Impaired	Known

#### Type of Pollutant(s)

Known: PRIORITY ORGANICS (PCBs), PESTICIDES (mirex)  
Suspected: ---  
Possible: ---

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

Known: TOX/CONTAM. SEDIMENT  
Suspected: ---  
Possible: ---

### 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>	2b*	

### Further Details

Fish consumption in the Salmon River, including the Lower Reservoir, is known to be impaired due to a fish consumption advisory, the result of past/historic discharges.

Fish consumption in the Lower Salmon River and Lower Reservoir is impaired due to a NYS DOH health advisory that recommends eating no more than one meal per month of smallmouth bass because of elevated PCB and Mirex levels. The source of PCBs and Mirex is contaminated sediments from past/historic industrial discharges. The advisory for this lake was first issued prior to 1998-99. (2006-07 NYS DOH Health Advisories and DEC/DFWMR, Habitat, December 2006).

Biological (macroinvertebrate) assessments at multiple sites along the Salmon River above and below the reservoir continue to exhibit excellent water quality and a diverse macroinvertebrate community. (DEC/DOW, BWAM/SBU, June 2005)

The Salmon River is included on the NYS 2006 Section 303(d) List of Impaired Waters. The lake is included on Part 2b of the List as a Fish Consumption Water.

## Salmon River, Middle, and tribs (0303-0068)

## Impaired Seg

### Waterbody Location Information

Revised: 04/13/2007

<b>Water Index No:</b>	Ont 53 (portion 3)	<b>Drain Basin:</b>	Lake Ontario
<b>Hydro Unit Code:</b>	04140102/060	<b>Str Class:</b>	C(T)
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	7/Oswego Co. (38)
<b>Waterbody Size:</b>	41.3 Miles	<b>Quad Map:</b>	ORWELL (G-17-4)
<b>Seg Description:</b>	stream and tribs, from Bennett Bridge to Redfield		

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

<b>Use(s) Impacted</b>	<b>Severity</b>	<b>Problem Documentation</b>
FISH CONSUMPTION	Impaired	Known

#### Type of Pollutant(s)

Known: PRIORITY ORGANICS (PCBs), PESTICIDES (mirex)  
Suspected: ---  
Possible: ---

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

Known: TOX/CONTAM. SEDIMENT  
Suspected: ---  
Possible: ---

### 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>	2b*	

### Further Details

Fish consumption in the Salmon River is known to be impaired due to a fish consumption advisory, the result of past/historic discharges.

Fish consumption in the Salmon River is impaired due to a NYS DOH health advisory that recommends eating no more than one meal per month of smallmouth bass because of elevated PCB and Mirex levels. The source of PCBs and Mirex is contaminated sediments from past/historic industrial discharges. The advisory for this lake was first issued prior to 1998-99. (2006-07 NYS DOH Health Advisories and DEC/DFWMR, Habitat, December 2006).

Biological (macroinvertebrate) assessments of the Salmon River at sites both above (in Redfield) and below (in Altmar) this reach have consistently showed water quality to be non-impaired. The river continues to exhibit excellent water quality and a diverse macroinvertebrate community. (DEC/DOW, BWAM/SBU, June 2005)

The Salmon River is included on the NYS 2006 Section 303(d) List of Impaired Waters. The lake is included on Part 2b of the List as a Fish Consumption Water.

This segment includes the portion of the stream and all tribs from Lower Salmon Reservoir (P18a) in Bennett Bridge to Salmon River Reservoir (P19a). The waters of this portion of the stream are Class C(T). Tribs to this reach/segment, including tribs to Salmon River Reservoirs such as Pennock Brook (P19a-4) and Coey Creek (P19a-5), are Class C,C(T). Lower/Upper Salmon River are listed separately.

## Salmon River Reservoir (0303-0069)

## Impaired Seg

### Waterbody Location Information

Revised: 04/13/2007

<b>Water Index No:</b>	Ont 53 (portion 4)/P19a	<b>Drain Basin:</b>	Lake Ontario
<b>Hydro Unit Code:</b>	04140102/050	<b>Str Class:</b>	C(T)
<b>Waterbody Type:</b>	Lake®	<b>Reg/County:</b>	7/Oswego Co. (38)
<b>Waterbody Size:</b>	3379.1 Acres	<b>Quad Map:</b>	ORWELL (G-17-4)
<b>Seg Description:</b>	entire reservoir		

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

<b>Use(s) Impacted</b>	<b>Severity</b>	<b>Problem Documentation</b>
FISH CONSUMPTION	Impaired	Known

#### Type of Pollutant(s)

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

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

Known: ---  
Suspected: ATMOSPHERIC DEPOSITION  
Possible: ---

### 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>	2b (Multiple Segment/Categorical Water, Fish Consumption)	

### Further Details

Fish consumption in Salmon River Reservoir is known to be impaired by mercury contamination, a result of atmospheric deposition.

Fish consumption in Salmon River Reservoir is impaired due to a NYS DOH health advisory that recommends eating no more than one meal per month of largemouth and smallmouth bass 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 NYS DOH Health Advisories and DEC/DFWMR, Habitat, December 2006).

Biological (macroinvertebrate) assessments at multiple sites along the Salmon River above and below the reservoir continue to exhibit excellent water quality and a diverse macroinvertebrate community. (DEC/DOW, BWAM/SBU, June 2005)

Salmon River Reservoir is included on the NYS 2006 Section 303(d) List of Impaired Waters. The lake is included on Part 2b of the List as a Fish Consumption Water.

## Orwell Brook and tribs (0303-0072)

**NoKnownImpct**

### Waterbody Location Information

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<b>Water Index No:</b>	Ont 53- 6	<b>Drain Basin:</b>	Lake Ontario
<b>Hydro Unit Code:</b>	04140102/060	<b>Str Class:</b>	C(T)
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	7/Oswego Co. (38)
<b>Waterbody Size:</b>	43.7 Miles	<b>Quad Map:</b>	RICHLAND (G-16-3)
<b>Seg Description:</b>	entire stream and tribs		

### 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

A biological (macroinvertebrate) assessment of Orwell Creek in Altmar (at Route 52) was conducted in 2001. Sampling results indicated slightly impacted water quality conditions. The fauna was dominated by caddisflies and mayflies, and nonpoint source nutrient enrichment was indicated to be the primary source of impact. However, nutrient biotic evaluation determined these effects on the fauna to be fairly minor. Aquatic life support is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the entire stream and all tribs. The waters of the stream are Class C(T). Tribs to this reach/segment are Class C,C(T).