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PUBLICATION

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NIAGARA COUNTY PLANNING
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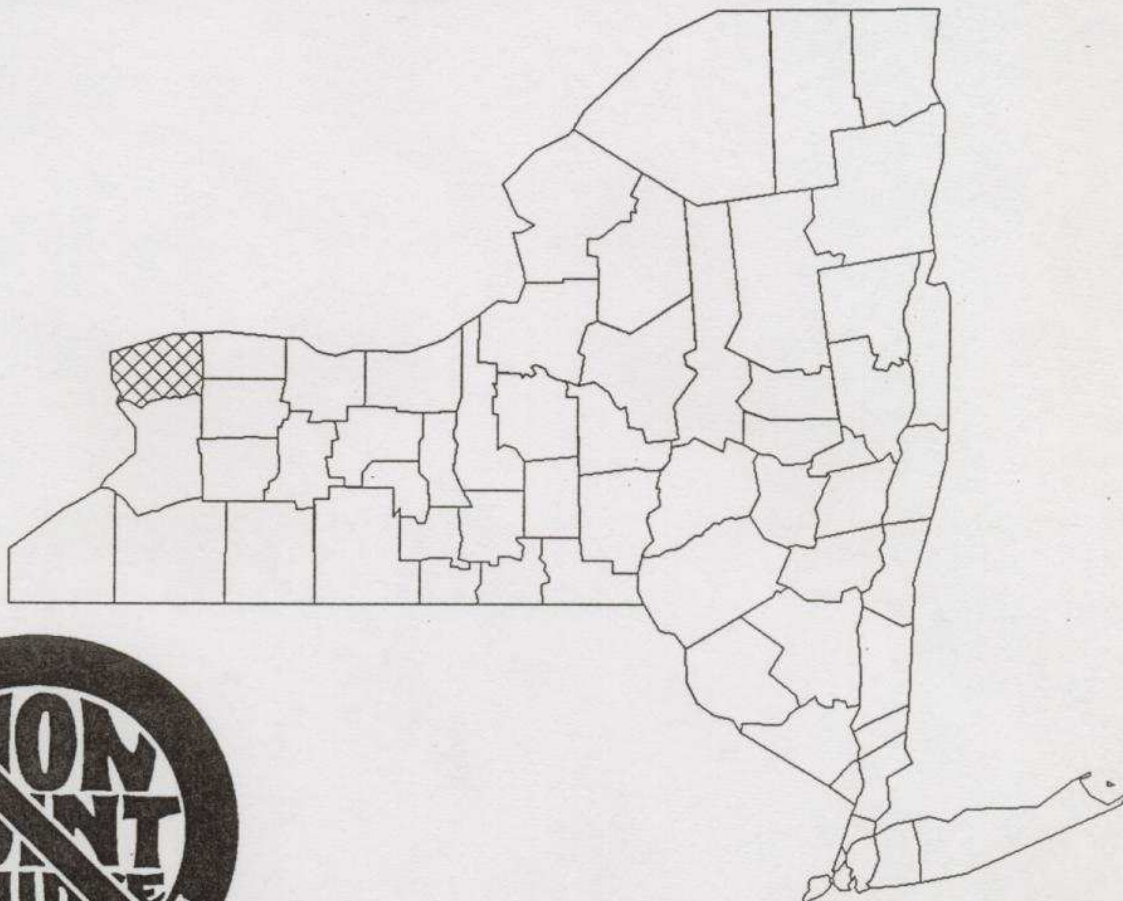


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Division of Water

NEW YORK NONPOINT ASSESSMENT REPORT FOR NIAGARA COUNTY

June 1990



New York State Department of Environmental Conservation

1989 COUNTY NONPOINT SOURCE ASSESSMENT

As the major point sources of water pollution are brought under control in New York, the water quality impact of nonpoint sources becomes more apparent. To continue progress toward cleaning up and preventing damage to New York's waters, existing nonpoint source problems must be identified and their impacts assessed and mitigated.

The Water Quality Act of 1987 focussed increased attention and priority on the development and implementation of nonpoint source control programs. Section 319 of the Act required states to prepare an Assessment Report identifying waterbodies affected by nonpoint source pollution, determining categories of nonpoint sources that are significant problems in the state and listing state programs available for the control of nonpoint source pollution. States were also required to prepare a Management Program which explained how they planned to deal with the source categories causing the major problems.

The Department of Environmental Conservation (DEC) produced these documents for New York. The Assessment Report was approved by EPA in July, 1989 and the Management Program was approved in January, 1990. The Assessment was based on DEC's existing database of water quality problems. Throughout the process of preparing the Assessment Report, it was recognized that the list contained in the Report could not be regarded as a complete and final inventory of segments adversely affected by nonpoint source pollution.

Assessment Update

In early 1989, a process was established to enhance DEC's list of segments having water quality problems. Among the goals of this assessment was to use additional data sources to identify possible nonpoint source impacts, to provide an opportunity for everyone with a knowledge of water quality problems to present this information and to expand the list to include segments that are threatened by nonpoint source pollution.

DEC, working in conjunction with the State Soil and Water Conservation Committee, initiated a two phased approach to identify problem waterbodies. The first phase had each Soil and Water Conservation District conduct a survey of nonpoint source pollution in their county. Districts invited agencies, groups and individuals from within the county to participate in identifying water quality problems. Districts collected information and presented it to DEC during the next phase of the process.

The second phase consisted of meetings of representatives from the key agencies within each county to discuss the results of the NPS survey. The meeting provided the Soil and Water Conservation District personnel and DEC Regional Water and Fisheries staff with an opportunity to discuss water quality problems in each county. When there was a consensus that a water quality problem existed on a specific waterbody, information regarding the problem was recorded.

Recognition of a water quality problem was the starting point for discussions. The existence of a land use which may be associated with nonpoint source pollution was not sufficient to be considered a problem. A classified use of a surface waterbody or groundwater must be precluded, impaired, stressed or threatened to be regarded as a problem (the definitions of these terms is given in the table below).

Categories of Impacts

<u>Precluded:</u>	Water quality and/or associated habitat degradation precludes, eliminates or does not support a classified use; natural ecosystem functions may be significantly disrupted. This category is used for the most severe impacts.
<u>Impaired:</u>	Water quality and/or habitat characteristics frequently impair a classified use. Also applied when the designated use is supported, but at a level significantly less than would otherwise be expected. Natural ecosystem functions may be disrupted. These waters have severe impacts.
<u>Stressed:</u>	Reduced water quality is occasionally evident and designated uses are intermittently or marginally restricted; natural ecosystem may exhibit adverse changes. These waters have moderate impacts.
<u>Threatened:</u>	Water quality presently supporting designated use and ecosystem experiencing no obvious signs of stress; however, existing or changing land use patterns may result in restricted usage or ecosystem disruption. These waters have the least impacts.

Verification Process

A procedure for verification of information presented during the first two phases will now be initiated. Only segments with verified water quality problems will be included on the Division of Water's Priority Water Problem list.

IT MUST BE RECOGNIZED THAT INFORMATION LISTED ON THE DATA SHEETS CONTAINED IN THIS REPORT IS "DRAFT". INFORMATION REGARDING THE DEGREE OF PROBLEM, TYPE OF POLLUTANTS AND SOURCE OF POLLUTANTS IS STILL SUBJECT TO AGENCY VERIFICATION.

Verification of nonpoint source related water quality problems may be done by DEC Regional Offices, DEC Central Office or another agency under the guidance of DEC. The water quality impacts can be verified in several ways. These include the analysis of existing data, the documentation of use impacts (water supply shutdowns, beach closings, etc.), the use of biological or visual indicators (fishery survey, weed harvesting program results) and the conduct of a water quality sampling program.

Updating the Priority Water Problem List

The Division of Water will compile the next edition of the Priority Water Problem List in 1990. It will be issued in 1991. The list will remain as the Division's official list of surface waterbodies with water quality problems. The Division also plans to develop a list of groundwater problems within the next few years.

Inputs to the process for updating the PWP list will be the existing PWP list, the list of segments nominated from the county nonpoint source meetings and any other segments identified as having water quality problems. Segments for which it has been confirmed that a problem exists will be added to the PWP list. There will be other segments which were nominated that will be dropped because verification procedures will demonstrate that no problem or threat to water quality exists.

For segments where no verification efforts have been performed, a separate list will be maintained. The segments will remain on this separate list until verification efforts confirm or refute the problem. Verification of the problem should be required before segments are considered eligible for any funding to address the nonpoint source pollution problems in the watershed.

**NONPOINT SOURCE POLLUTION
ASSESSMENT MEETING**

**County: Niagara
Date: June 13, 1989**

Meeting was held at DEC Offices in Buffalo

ATTENDANCE LIST

<u>NAME</u>	<u>REPRESENTING</u>	<u>PHONE NO.</u>
Anthony Esser	NYSDEC/SCS	518/457-6781
Bill Morton	NYSDEC - BWQM	518/457-6781
Richard Tillman	Niagara Co. SWCD	716/434-4949
Dave Leemhuis	NYSDEC - Water	716/847-4590
Paul E. Foersch	NYSDEC-Reg. #9-Water	716/847-4590
Dan King	NYSDEC-Reg. #9-Water	716/847-4590
Bob Smythe	NYSDEC-Reg. #9-Water	716/847-4590
Rich Swinech	NYSDEC-Reg. #9-Water	716/847-4590
Mike Wilkenson	NYSDEC-Reg. #9-Fisheries	716/847-4590

1990 NONPOINT SOURCE ASSESSMENT
Alphabetcal List of Segments

Segment Name	ID. No.	State Basin	SCS Hydro. Unit No.	Use Affected	Severity
BERGHOLTZ CREEK	32-004	01-01	04120104.110	FISHING	PRECLUDED
BLACK CREEK	32-006	01-01	04120104.110	FISHING	PRECLUDED
X BLOODY RUN CREEK	32-005	01-01	04120104.110	FISHING	PRECLUDED
BOND LAKE	32-007	03-01	04130001.030	AESTHETICS	PRECLUDED
CAYUGA CREEK	32-008	01-01	04120104.110	FISHING	PRECLUDED
CAYUGA CREEK	32-009	01-01	04120104.110	FISHING	STRESSED
EIGHTEEN MILE CK	32-003	03-01	04130001.040	BOATING	STRESSED
GILL CREEK	32-010	01-01	04120104.110	FISHING	PRECLUDED
JEDDO CREEK TRIB	32-011	03-01	04130001.060	FISH PROPAGATION	STRESSED
LAKE ONTARIO	32-012	03-01	04130001.060	FISHING	IMPAIRED
NIAGARA RIVER	32-013	01-01	04120104.110	FISHING	IMPAIRED
TONAWANDA CREEK	32-014	01-02	04120104.050	FISH PROPAGATION	IMPAIRED
TWELVE MILE CREEK	32-002	03-01	04130001.020	FISH PROPAGATION	THREATENED
UPPER BERGHOLTZ	32-001	01-01	04120104.110	AESTHETICS	THREATENED

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: UPPER BERGHOLTZ
Segment Type: RIVER
Basin & Subbasin: Niagara River Main Stem

Identification: 32-001
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara DEC Region # 9 Quad Map: Tonawanda West
Classification: C<D Flow Category = Affected Area = 6.0 mi.

Segment Location:
From Franklin Street to east of Town Line

DEGREE OF PROBLEM:
USAGE

IMPAIRMENT

DOCUMENTATION

AESTHETICS

THREATENED

SOME

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Aesthetics

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = On-site Wastewater Systems
OTHER SOURCE = Urban Runoff-(M)

RESOLVABILITY: Conditions Need Verification

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Aesthetics of stream segment are threatened by raw sewage floating in the stream.

No real fishery in stream due to extreme low flows. Most of problems resulting from inadequate and/or failing on-site waste water systems.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: TWELVE MILE CREEK
Segment Type: RIVER
Basin & Subbasin: Lake Ontario West

Identification: 32-002
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara DEC Region # 9 Quad Map: Sixmile Creek
Classification: B,CT Flow Category = Affected Area = 15.0 mi.

Segment Location:
From Lake Ontario to source

DEGREE OF PROBLEM:

USAGE	IMPAIRMENT	DOCUMENTATION
FISH PROPAGATION	THREATENED	POOR
FISH SURVIVAL	THREATENED	POOR
AESTHETICS	THREATENED	SOME

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Water Level or Flow
OTHER POLLUTANT = Nutrients
OTHER POLLUTANT = Oxygen-Demanding Substances
OTHER POLLUTANT = Thermal Changes
OTHER POLLUTANT = Aesthetics

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Hydrologic/Habitat Modification
OTHER SOURCE = On-site Wastewater Systems-(H)

RESOLVABILITY: Conditions Need Verification

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Fish survival is impacted by extreme low flow conditions.

This water body is heavily stocked and sees significant runs of trout and salmon. The major problem in this stream is extreme flow conditions, especially low flows where fish get stranded in isolated pools. The low flow conditions are aggravated by channelization from agricultural drainage. There are on-site waste water disposal problems in the upper portions of the watershed.

Classification: mouth to NY Rte. 18 bridge, B; bridge to point 1.3 miles upstream from mouth, C; from point 1.2 miles upstream from mouth, D proposed to C.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: EIGHTEEN MILE CK
Segment Type: RIVER
Basin & Subbasin: Lake Ontario West

Identification: 32-003
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara DEC Region # 9 Quad Map: Lockport
Classification: B,CT Flow Category = Affected Area = 14.7 mi.

Segment Location:
From Lake Ontario to source

DEGREE OF PROBLEM:

USAGE	IMPAIRMENT	DOCUMENTATION
FISHING	STRESSED	GOOD
AESTHETICS	THREATENED	SOME
BOATING	STRESSED	GOOD

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Metals
OTHER POLLUTANT = Silt (Sediment)
OTHER POLLUTANT = Oxygen-Demanding Substances
OTHER POLLUTANT = Aesthetics

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Municipal Point Sources
OTHER SOURCE = Combined Sewer Overflows-(H)
OTHER SOURCE = Contaminated/Toxic Sediments-(M)
OTHER SOURCE = Agric. - Row Crops-(M)
OTHER SOURCE = Agric. - Riparian Veg. Removal-(M)
OTHER SOURCE = Urban Runoff-(M)
OTHER SOURCE = Land Disposal (landfills)-(L)
OTHER SOURCE = Streambank Erosion-(M)
OTHER SOURCE = Roadbank Erosion-(M)
OTHER SOURCE = Natural -(M)

RESOLVABILITY: Conditions Need Verification

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Chlorine from Lockport disinfection was adversely affecting the fishery downstream of the discharge, (problem may be eliminated but there is no documentation to that effect). CSO discharges cause aesthetic problem along bank and discourage fishing.

On PWP list, number 516.

High concentrations of metals in creek and Olcott Harbor sediment documented by EPA, USGS and DEC. Recent DEC report suggests that high natural background may be responsible in part. Control areas in report show somewhat higher levels in East Branch of creek where no point sources are located, suggesting that the sources are either background or from nonpoint sources. Predominant land use in the basin is agricultural but also includes most of the City of Lockport and the Hamlets of Newfane and Olcott. Sedimentation in Olcott Harbor has required dredging to maintain navigational depth.

Highest metal concentrations have been found behind dams at Newfane and Burt.

Niagara County EMC has compiled existing land use data for the basin including the locations of agricultural districts, livestock farms, salt storage areas, SPDES discharge points, tile drained fields, zoning, CSO's, waste disposal sites, dam (present and former), existing water quality data and much more.

Draft documents are in file for Niagara County.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: BERGHOLTZ CREEK
Segment Type: RIVER
Basin & Subbasin: Niagara River Main Stem

Identification: 32-004
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara
Classification: C<D

DEC Region # 9
Flow Category =

Quad Map: Tonawanda West
Affected Area = 2.1 mi.

Segment Location:

2.1 mile reach downstream from junction with Black Creek

DEGREE OF PROBLEM:

USAGE	IMPAIRMENT	DOCUMENTATION
FISHING	PRECLUDED	GOOD

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Priority Organics
OTHER POLLUTANT = Pesticides
OTHER POLLUTANT = Nonpriority Organics
OTHER POLLUTANT = Metals

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Contaminated/Toxic Sediments
OTHER SOURCE = Land Disposal (landfills)-(H)

RESOLVABILITY: Problem Not Resolvable

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Abnormalities in fish indicate that fish should not be consumed. Public access has been limited.
Toxic contamination noted in NRTC report.

Cause: Love Canal - organics

Problem under litigation - Ground water may be contributing to toxic load

This segment is on the 1988 PWP list - ID No. 518.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: BLOODY RUN CREEK
Segment Type: RIVER
Basin & Subbasin: Niagara River Main Stem

Identification: 32-005
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara
Classification: C<D

DEC Region # 9
Flow Category =

Quad Map: Lewiston
Affected Area = 0.5 mi.

Segment Location:
Entire length

DEGREE OF PROBLEM:

USAGE

IMPAIRMENT

DOCUMENTATION

FISHING

PRECLUDED

GOOD

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Priority Organics
OTHER POLLUTANT = Pesticides
OTHER POLLUTANT = Nonpriority Organics
OTHER POLLUTANT = Metals
OTHER POLLUTANT = Other Inorganics

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Land Disposal (landfills)
OTHER SOURCE = Contaminated/Toxic Sediments-(H)

RESOLVABILITY: Problem Not Resolvable

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Toxic contamination - no fishing permitted - no access - area fenced off - toxic contaminants noted in NRTC report.

Cause: Hyde Park landfill - problem under litigation.

This segment is on the 1988 PWP list - ID No. 523.

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NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: BLACK CREEK
Segment Type: RIVER
Basin & Subbasin: Niagara River Main Stem

Identification: 32-006
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara **DEC Region #** 9 **Quad Map:** Tonawanda West
Classification: C<D **Flow Category =** **Affected Area =** 2.5 mi.

Segment Location:
Area north of Love Canal to junction with Bergholtz Creek

DEGREE OF PROBLEM:

USAGE	IMPAIRMENT	DOCUMENTATION
FISHING	PRECLUDED	GOOD

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Priority Organics
OTHER POLLUTANT = Pesticides
OTHER POLLUTANT = Nonpriority Organics
OTHER POLLUTANT = Metals

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Contaminated/Toxic Sediments
OTHER SOURCE = Storm Sewers-(H)
OTHER SOURCE = Land Disposal (landfills)-(H)

RESOLVABILITY: Problem Not Resolvable

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Anomalies in fish (i.e. tumored fish and mutations) indicate fish should not be eaten - Dioxin in sediments - Area fenced off - no access.

Cause: Niagara Refuse disposal
Love Canal Landfill - problem under litigation

Ground water may be contributing to the toxic load.

This segment is on the 1988 PWP list - ID No. 485.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: BOND LAKE
Segment Type: LAKE
Basin & Subbasin: Lake Ontario West

Identification: 32-007
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara
Classification: B
DEC Region # 9
Flow Category =
Quad Map: Ransomville
Affected Area = 33.0 ac.

Segment Location:
Entire Lake

DEGREE OF PROBLEM:
USAGE

IMPAIRMENT

DOCUMENTATION

BATHING
AESTHETICS
BOATING

IMPAIRED
PRECLUDED
IMPAIRED

SOME
GOOD
SOME

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Nutrients
OTHER POLLUTANT = Aesthetics

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Agric. - Row Crops
OTHER SOURCE = Agric. - Truck Farm-(X)

RESOLVABILITY: Needs Study and Management Plan

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Excessive growth of rooted aquatic vegetation severely impacts aesthetics on the lake and impairs all recreational uses.

PWP list, number 690.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: CAYUGA CREEK
Segment Type: RIVER
Basin & Subbasin: Niagara River Main Stem

Identification: 32-008
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara DEC Region # 9 Quad Map: Tonawanda West
Classification: C Flow Category = Affected Area = 1.5 mi.

Segment Location:
From Town of Niagara/City of Niagara Falls to Niagara River

DEGREE OF PROBLEM:

USAGE	IMPAIRMENT	DOCUMENTATION
FISHING	PRECLUDED	GOOD

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Priority Organics
OTHER POLLUTANT = Pesticides
OTHER POLLUTANT = Metals

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Contaminated/Toxic Sediments
OTHER SOURCE = Storm Sewers-(H)
OTHER SOURCE = Combined Sewer Overflows-(H)
OTHER SOURCE = Land Disposal (landfills)-(H)

RESOLVABILITY: Needs Study and Management Plan

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Anomalies in fish indicate that fish should not be eaten. Sediment and groundwater contaminated with dioxin. Health advisory on all species.

Cause: Love Canal (organics) - primary source
Gibson Landfill (BHCs)
Niagara Falls CSO's (Conventional)

PWP list number 489.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: CAYUGA CREEK
Segment Type: RIVER
Basin & Subbasin: Niagara River Main Stem

Identification: 32-009
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara DEC Region # 9 Quad Map: Tonawanda West
Classification: C<D Flow Category = Affected Area = 2.7 mi.

Segment Location:
From Walmore Road to town Niagara/City Niagara Falls line

DEGREE OF PROBLEM:

USAGE	IMPAIRMENT	DOCUMENTATION
FISHING	STRESSED	SOME
AESTHETICS	STRESSED	SOME

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Priority Organics
OTHER POLLUTANT = Unknown Toxic
OTHER POLLUTANT = Nonpriority Organics

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Contaminated/Toxic Sediments
OTHER SOURCE = Industrial Point Sources-(X)
OTHER SOURCE = Airport Runoff -(X)

RESOLVABILITY: Manageable by DEC Regional Office

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Periodic oil sheens cause aesthetic problems and discourage the fishing use.

Cause: Niagara Falls Airforce base - oil and grease and BTX from wash down of frequent jet fuel spills. Also, at times, Ethylene Glycol (deicer) drains into creek from the AFB.

PWP list number 526

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: GILL CREEK
Segment Type: RIVER
Basin & Subbasin: Niagara River Main Stem

Identification: 32-010
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara DEC Region # 9 Quad Map: Niagara Falls
Classification: C<D Flow Category = Affected Area = 2.5 mi.

Segment Location:
From Packard Road to the confluence with Niagara River

DEGREE OF PROBLEM:

USAGE	IMPAIRMENT	DOCUMENTATION
FISHING	PRECLUDED	GOOD
AESTHETICS	IMPAIRED	SOME

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Priority Organics
OTHER POLLUTANT = Pesticides
OTHER POLLUTANT = Aesthetics

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Contaminated/Toxic Sediments
OTHER SOURCE = Industrial Point Sources-(H)
OTHER SOURCE = Municipal Point Sources-(M)
OTHER SOURCE = Combined Sewer Overflows-(H)

RESOLVABILITY: Needs Study and Management Plan

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: PCB's and BHC removed from creek bed from Robert Moses Expressway upstream to Buffalo Avenue. Aesthetics upstream of Buffalo Avenue discourages use. Organics and pesticides in sediments and fish flesh. Levels are significant. The stream was posted with a fishing ban as of April 1, 1988.

Cause: Industrial discharges
Niagara Falls CSO discharges into Gill Creek

PWP list number 536.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: JEDDO CREEK TRIB
Segment Type: RIVER
Basin & Subbasin: Lake Ontario West

Identification: 32-011
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara DEC Region # 9 Quad Map: Lyndonville
Classification: B Flow Category = Affected Area = 5.0 mi.

Segment Location:
A 5.0 mile reach below FMC Corporation site

DEGREE OF PROBLEM:

USAGE

IMPAIRMENT

DOCUMENTATION

FISH PROPAGATION

STRESSED

GOOD

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Pesticides
OTHER POLLUTANT = Priority Organics
OTHER POLLUTANT = Metals
OTHER POLLUTANT = Ammonia

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Land Disposal (landfills)
OTHER SOURCE = Industrial Point Sources-(X)

RESOLVABILITY: Manageable by DEC Regional Office

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Operational upsets discharge arsenic and pesticides which have toxic effects on the stream.

Cause: FMC Corporation - incomplete site remediation program to mitigate contaminated storm water runoff.

PWP list number 538.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: LAKE ONTARIO
Segment Type: G.LAKE
Basin & Subbasin: Lake Ontario West

Identification: 32-012
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara DEC Region # 9 Quad Map: several
Classification: A Flow Category = A Affected Area = 99999.0 ac.

Segment Location:
Entire Lake - 3560 square miles

DEGREE OF PROBLEM:

USAGE	IMPAIRMENT	DOCUMENTATION
FISHING	IMPAIRED	GOOD

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Priority Organics

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Contaminated/Toxic Sediments
OTHER SOURCE = Industrial Point Sources-(X)
OTHER SOURCE = Land Disposal (landfills)-(X)

RESOLVABILITY: Problem Not Resolvable

WATER PROBLEM DESCRIPTION:

USE IMPAIRMENT: Health advisory on fish consumption discourages the fishing use. Advisory: eat none of the following species; American eel, channel catfish, lake trout, chinook salmon, coho salmon over 21", rainbow trout over 25", brown trout over 20"....eat no more than one meal per month of carp, white perch, smaller coho salmon, rainbow and brown trout.

Contaminants: Mirex, PCB's

Cause: Lake sediments
Possible leaking inactive landfills

PWP list number 481. The entire lake area is 2.3 million acres.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: NIAGARA RIVER
Segment Type: RIVER
Basin & Subbasin: Niagara River Main Stem

Identification: 32-013
Date Completed: 07/13/89
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara DEC Region # 9 Quad Map: Niagara Falls, Lewis
Classification: A Flow Category = Affected Area = 26.0 mi.

Segment Location:
From Erie Co. line to Lake Ontario

DEGREE OF PROBLEM:

USAGE	IMPAIRMENT	DOCUMENTATION
WATER SUPPLY	STRESSED	SOME
BATHING	THREATENED	SOME
FISHING	IMPAIRED	SOME
FISH PROPAGATION	STRESSED	SOME
FISH SURVIVAL	STRESSED	SOME
AESTHETICS	THREATENED	SOME

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Priority Organics
OTHER POLLUTANT = Unknown Toxic
OTHER POLLUTANT = Pesticides
OTHER POLLUTANT = Metals
OTHER POLLUTANT = Nutrients
OTHER POLLUTANT = Silt (Sediment)
OTHER POLLUTANT = Oxygen-Demanding Substances
OTHER POLLUTANT = Salts
OTHER POLLUTANT = Thermal Changes

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Contaminated/Toxic Sediments
OTHER SOURCE = Industrial Point Sources-(H)
OTHER SOURCE = Municipal Point Sources-(H)
OTHER SOURCE = Storm Sewers-(H)
OTHER SOURCE = Combined Sewer Overflows-(H)
OTHER SOURCE = Highway/Bridge Construction-(L)
OTHER SOURCE = Urban Runoff-(M)
OTHER SOURCE = Chemical Leaks and Spills-(X)
OTHER SOURCE = Storage/App of Deicing Material-(X)

RESOLVABILITY: Strategy Exists, Resources Needed

WATER PROBLEM DESCRIPTION:

Use Impairment - There is a health advisory on carp throughout the river and an advisory on smallmouth bass in the lower portion of the river. Both advisories are eat no more than one meal per month. CSO's, toxic contamination of sediments, leachate from hazardous waste sites and toxic contributions from industries and municipalities discourages use.

Cause: CSO's, Contaminated Sediments, Landfill Leachate, Industrial and Municipal discharges.

River is subject to joint US-Canada Niagara River Implementation Plan to address and mitigate toxic contributions to the basin. This segment is on the 1988 PWP list number 483.

NYS DEC NONPOINT SOURCE WATER QUALITY ASSESSMENT LIST

Segment Name: TONAWANDA CREEK
Segment Type: RIVER
Basin & Subbasin: Tonawanda Creek

Identification: 32-014
Date Completed: 03/15/90
Date Verified*: DRAFT

* When Date Verified = 'DRAFT' the use impairment has not been verified by the NYS Dept. of Environmental Conservation.

County: Niagara
Classification: B

DEC Region # 9
Flow Category =

Quad Map: Clarence Center
Affected Area = 10.0 mi.

Segment Location:
From East Canal Road to Route 93

DEGREE OF PROBLEM:

USAGE	IMPAIRMENT	DOCUMENTATION
FISH PROPAGATION	IMPAIRED	SOME
FISH SURVIVAL	IMPAIRED	SOME
AESTHETICS	IMPAIRED	SOME

TYPE OF POLLUTANT(S):

PRIMARY POLLUTANT = Silt (Sediment)
OTHER POLLUTANT = Pesticides
OTHER POLLUTANT = Nutrients
OTHER POLLUTANT = Pathogens

SOURCE(S) OF POLLUTANT(S):

PRIMARY SOURCE = Streambank Erosion
OTHER SOURCE = Agric. - Row Crops-(M)
OTHER SOURCE = Agric. - Truck Farm-(M)
OTHER SOURCE = Agric. - Fertilizer Application-(M)
OTHER SOURCE = Agric. - Pesticide Application-(M)
OTHER SOURCE = On-site Wastewater Systems-(H)

RESOLVABILITY: Conditions Need Verification

WATER PROBLEM DESCRIPTION:

Use Impairment - Sediment from streambank erosion is impairing warm water fishery habitat and impacting aesthetics of stream.

Subdivisions are being developed in the area without proper waste water treatment facilities. Nutrients from failing on-site waste water systems are contributing to algae growth in the low gradient sections of the creek and during low flows.

Individual homes are being built too close to the stream and causing erosion problems.

This segment was identified for Erie County (15-006). Since the creek forms the county line it should also be on for Niagara County.