



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
Site Classification Report



DATE: 10/4/2012

Site Code: 932156	Site Name: Eighteenmile Creek Sediments
City: Lockport	Town: Lockport (c)
Region: 9	County: Niagara
Current Classification: P	Proposed Classification: 02
Estimated Size (acres): 200.00	Disposal Area:
Significant Threat: Unknown	Site Type: EPA Lead
Priority ranking Score: 365	Project Manager: Glenn May

Summary of Approvals

Originator/Supervisor: Greg Sutton	08/24/2012
RHWRE: Gregory Sutton / Martin Doster:	08/24/2012
BEEI of NYSDOH:	09/21/2012
CO Bureau Director: Michael Cruden, Director, Region 9:	08/23/2012
Assistant Division Director: Robert W. Schick, P.E.:	09/25/2012

Basis for Classification Change

The Remedial Investigation conducted by the USEPA revealed that the majority of the impairments to Eighteenmile Creek Sediments Site (Site No. 932156) are linked to the migration of contaminated sediments from the Eighteenmile Creek Corridor Site (Site No. 932121). Sediment in the Eighteenmile Creek Corridor Site became contaminated with metals and PCBs by the migration of on-site hazardous waste and other contaminated fill material into the creek. Additionally, some sediment at the Eighteenmile Creek Corridor Site exceeded the 50 ppm hazardous waste criterion for PCBs. Hazardous concentrations of PCBs in sediment have also been found in the Eighteenmile Creek Sediments Site.

People may be exposed to PCBs and metals through direct contact with contaminated sediment during recreational activities in and along the creek. Fish advisories (eat none for all species) have been listed for all of Eighteenmile Creek due to the high level of contaminants (e.g., PCBs) in fish.

Eighteenmile Creek has been identified by the International Joint Commission as one of the 43 Areas of Concern in the Great Lakes Basin. The NYSDEC's Division of Water issued a Remedial Action Plan for this creek in 1997.

In March 2012, the Eighteenmile Creek Corridor Site and the Eighteenmile Creek Sediments Site were added to the USEPA's National Priorities List.



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Site Name: Eighteenmile Creek Sediments

Site Description - Last Review: 09/20/2012

Location:

The Eighteenmile Creek Sediments Site in Niagara County, New York consists of contaminated sediments and surface water in Eighteenmile Creek including any upland sources that may have contributed to sediment contamination. The site extends from Harwood Street in the City of Lockport to Lake Ontario, a distance of approximately 17 miles. This site is immediately downstream of the Eighteenmile Creek Corridor Site (Site No. 932121) located in the City of Lockport.

Site Features:

Downstream of the Eighteenmile Creek Corridor Site, Eighteenmile Creek drops down the Niagara Escarpment and winds through rural Niagara County to Burt Dam, and then to Lake Ontario. This portion of Eighteenmile Creek passes through the City of Lockport, and the Towns of Lockport and Newfane.

Two major tributaries flow into the main channel of Eighteenmile Creek: the stream that drains the northwestern portion of Lockport and flows through a ravine known as The Gulf (hereinafter referred to as Gulf Creek) and the East Branch of Eighteenmile Creek. Gulf Creek enters the main channel just north of the City of Lockport's Wastewater Treatment Plant. The East Branch of Eighteenmile Creek enters the main channel just north of Ridge Road in the Town of Newfane.

Two dams exist across Eighteenmile Creek in the Eighteenmile Creek Sediments Site. Newfane Dam was built in the 1830s to provide power for the Newfane mill district. This dam is no longer in active use but remains in place. Burt Dam was built north of Newfane in 1924, creating a 95-acre reservoir that extends approximately 2 miles upstream of the dam. This dam generated electricity until recently.

Current Zoning/Use:

Eighteenmile Creek is surrounded by six residential townships. Eighteenmile Creek is not zoned; however, it flows through land consisting primarily of cropland and orchards, with residential, commercial, and small industrial areas located around the City of Lockport, Newfane, and Olcott Harbor.

Historical Use:

Eighteenmile Creek has a long history of industrial use dating back to the 19th century. In the City of Lockport, numerous millraces and millponds were constructed to provide power for a variety of industries located along the banks of Eighteenmile Creek. The millraces were constructed to take advantage of water from the New York State Barge Canal and Eighteenmile Creek traveling down the escarpment. Early industrial facilities included pulp mills, gristmills, tanneries, and sawmills. The remnants of this industrial era can be seen at the Eighteenmile Creek Corridor Site (e.g., the former Flintkote and United Paperboard plants).

Remedial History:

A majority of previous environmental studies and investigations focused on the northern portion of the Eighteenmile Creek drainage basin and the creek's confluence at Lake Ontario (Area of Concern or AOC).



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Early investigations completed in the 1980s and 1990s were led by the NYSDEC as part of their watershed research program and Remedial Action Plan (RAP) implementation, and by the U.S. Army Corp of Engineers as part of their authority to dredge the navigation channel. The results of these investigations revealed that the sediments of Eighteenmile Creek within the AOC are significantly contaminated with metals and polychlorinated biphenyls (PCBs). The investigations detected high concentrations of contaminants immediately upstream of the Burt and Newfane Dams, and in upstream sediments close to the New York State Barge Canal.

In August 1997 a Remedial Action Plan for Eighteenmile Creek was issued by the NYSDEC's Division of Water.

In 2006 the Niagara County Soil and Water Conservation District conducted a PCB trackdown study to evaluate if PCBs and metals were migrating from the Eighteenmile Creek Corridor Site, and to identify other potential sources of contamination. This investigation was completed on approximately 8,000 linear feet of creek between the Eighteenmile Creek Corridor Site and Stone Road to the north. This investigation revealed that sediment in this stretch of Eighteenmile Creek is contaminated with metals and PCBs.

In 2008 the Niagara County Soil and Water Conservation District entered into an agreement with the Great Lakes National Program Office of the USEPA to conduct a Remedial Investigation of Eighteenmile Creek between the Eighteenmile Creek Corridor Site and Lake Ontario. Initial field activities were completed in 2009, with the remaining field activities completed in 2010. The Remedial Investigation included the collection, analysis and evaluation of approximately 400 sediment samples throughout 7 distinct reaches of the creek. A Remedial Investigation report was issued in March 2012, and revealed that the majority of the impairments to the creek are linked to the migration of contaminated sediments from the Eighteenmile Creek Corridor Site.

USEPA National Priorities List:

In March 2012, the Eighteenmile Creek Corridor Site and the Eighteenmile Creek Sediments Site were added to the USEPA's National Priorities List of hazardous waste sites.

Contaminants of Concern (Including Materials Disposed) Quantity Disposed

- OU 07**
- ARSENIC
- CHROMIUM
- COPPER
- LEAD
- MERCURY
- POLYCHLORINATED BIPHENYLS (PCB)
- ZINC

Analytical Data Available for : Surface Water, Sediment

Applicable Standards Exceeded for: Surface Water, Sediment



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Site Name: Eighteenmile Creek Sediments

Site Environmental Assessment- Last Review: 09/20/2012

Sediments in Eighteenmile Creek are contaminated with arsenic, chromium, copper, lead, mercury, zinc and PCBs. Lead and PCBs are the primary contaminants of concern, with concentrations up to 7,850 parts per million (ppm) for lead and 97 ppm for PCBs. Sediment contamination extends for approximately 17 miles downstream from the Eighteenmile Creek Corridor Site (Site No. 932121) to Lake Ontario. Surface water of Eighteenmile Creek is contaminated with low levels of PCBs.

Several wetlands are adjacent to contaminated portions of the creek and may also be impacted.

Fisherman's Park, a public fishing area located immediately downstream of Burt Dam, is a major fishing area (22,000 angler hours recorded in 2005). Fish advisories (eat none for all species) have been listed for all of Eighteenmile Creek due to the high level of contaminants (e.g., PCBs) in fish.

The reach of the Eighteenmile Creek between Burt Dam and Lake Ontario is classified an Area of Concern by the Great Lakes National Program Office of the USEPA due to its natural resources value within the Lake Ontario watershed.

Site Health Assessment - Last Update: 09/11/2012

Fish in the creek contain PCBs and other chemical contaminants present in the creek sediment; therefore people who eat the fish from the creek are consuming these contaminants. The New York State Department of Health advises that people do not eat fish from the creek. People using the creek for recreational purposes such as fishing and boating may come into direct contact with chemical contaminants and potentially harmful biological organisms present in the shallow creek and wetland sediments. People are not drinking creek water because the area is served by a public water supply that obtains its water from a different source.

	Start		End	
OU 07				
Reclass Pkg.	8/20/12	ACT	12/31/12	PLN

Remedy Description and Cost

Remedy Description for Operable Unit 07

Total Cost

OU	Site Management Plan Approval:	Status:
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Form
 10/4/2012

SITE DESCRIPTION

SITE NO. 932156

SITE NAME Eighteenmile Creek Sediments

SITE ADDRESS: Eighteenmile Creek ZIP CODE: 14094

CITY/TOWN: Lockport

COUNTY: Niagara

ALLOWABLE USE:

SITE MANAGEMENT DESCRIPTION

SITE MANAGEMENT PLAN INCLUDES: YES NO

IC/EC Certification Plan

Monitoring Plan

Operation and Maintenance (O&M) Plan

Periodic Review Frequency:

Periodic Review Report Submittal Date:



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Description of Institutional Control

0

Not Applicable/No IC's

Description of Engineering Control

Not Applicable/No EC's



PUBLIC NOTICE

State Superfund Program

Receive Site Information by Email. See next page to Learn How.

Site Name: Eighteenmile Creek Sediments

October 4, 2012

Site No. 932156

Site Location: Eighteenmile Creek (Between Harwood St., City of Lockport and Lake Ontario at Olcott),
Niagara County, NY 14094

Inactive Hazardous Waste Disposal Site Classification Notice

The Inactive Hazardous Waste Disposal Site Program (the State Superfund Program) is the State's program for identifying, investigating, and cleaning up sites where the disposal of hazardous waste may present a threat to public health and/or the environment. The New York State Department of Environmental Conservation (Department) maintains a list of these sites in the Registry of Inactive Hazardous Waste Disposal Sites (the "Registry"). The site identified above, and located on a map on the reverse side of this page, was recently added to the Registry as a Class 2 site that presents a significant threat to public health and/or the environment for the following reason(s):

The site was listed in USEPA's National Priority List (NPL) in March 2012 and public notification of this listing provided. When a site is placed on the NPL, DEC also includes the site in the State Registry of Inactive Hazardous Waste Sites as a class 2 site, and we are currently in the process of listing this site. The site extends from Harwood Street in the City of Lockport to Lake Ontario, a distance of approximately 15 miles. This site is immediately downstream of the Eighteenmile Creek Corridor Site (Site No. 932121) located in the City of Lockport. Sediment in the creek is contaminated with PCBs and metals, and there is a fish advisory (all species - eat none) for the entire creek. Furthermore, there is a potential for people to be exposed to the contamination through recreational use of the creek. Additional investigation is needed to define the nature and extent of contamination and to select appropriate remedial measures.

The Department will keep you informed throughout the investigation and cleanup of the site.

If you own property adjacent to this site and are renting or leasing your property to someone else, please share this information with them. If you no longer wish to be on the contact list for this site or otherwise need to correct our records, please contact the Department's Project Manager listed below.

FOR MORE SITE INFORMATION

Additional information about this site can be found using the Department's "Environmental Site Remediation Database Search" engine which is located on the internet at: www.dec.ny.gov/cfm/xtapps/derexternal/index.cfm?pageid=3

Comments and questions are always welcome and should be directed as follows:

Project Related Questions

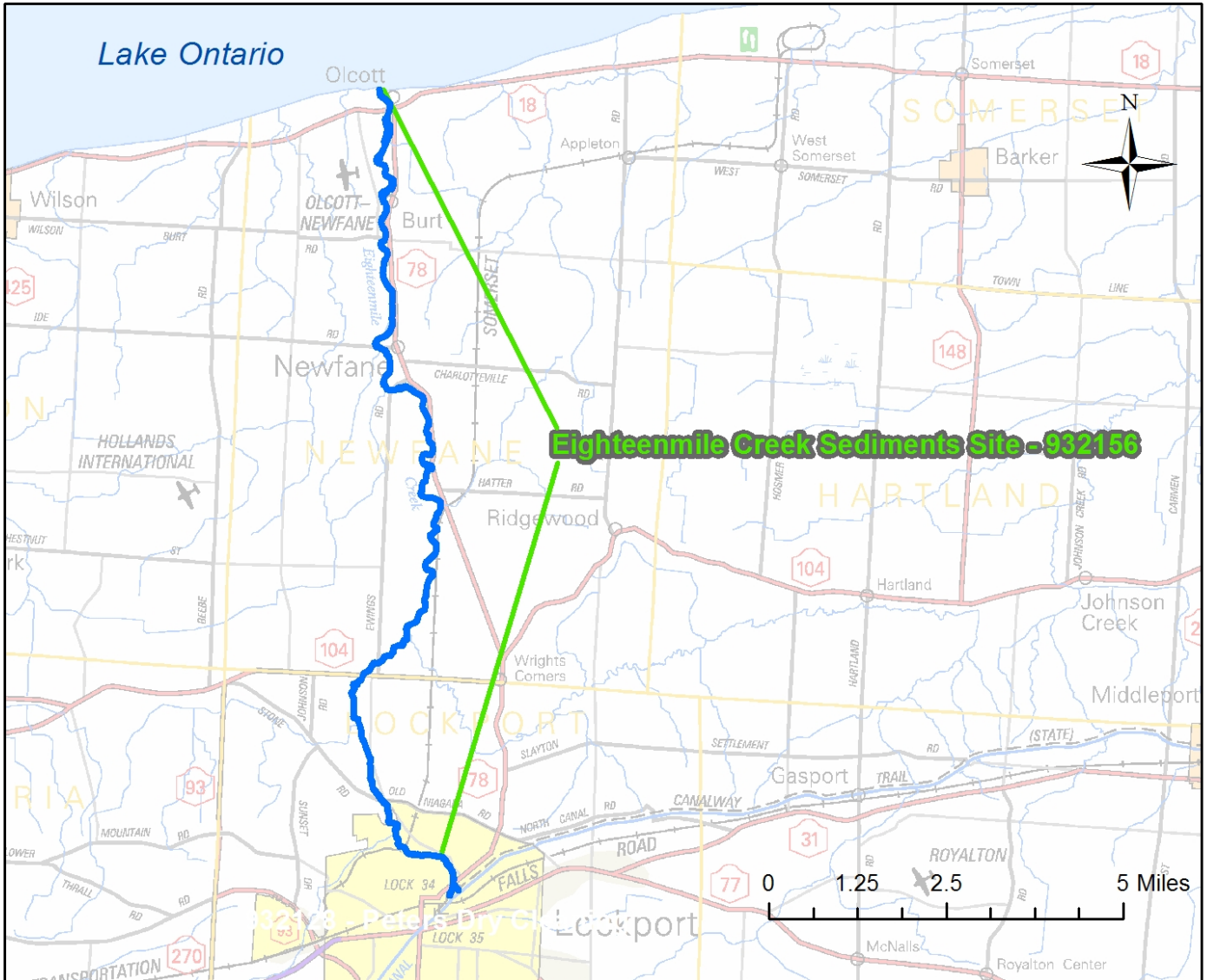
Mr. Glenn May, Project Manager
NYS Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, NY 14203
gmmay@gw.dec.state.ny.us
715-851-7220

Site Related Health Questions

Mr. Matthew Forcucci
New York State Department of Health
584 Delaware Avenue
Buffalo, NY 14202
716-847-4501
beei@health.state.ny.us

The Department is sending you this notice in accordance with Environmental Conservation Law Article 27, Title 13 and its companion regulation (6 NYCRR 375-2.7(b)(6)(ii)) which requires the Department to notify all parties on the contact list for this site of this recent action.

Approximate Site Location
Eighteenmile Creek Sediments
Site ID: 932156
Harwood St., City of Lockport to Lake Ontario at Olcott
Niagara County, NY



Receive Site Updates by Email

Have site information such as this public notice sent right to your email inbox. NYSDEC invites you to sign up with one or more contaminated sites county email listservs available at the following web page: www.dec.ny.gov/chemical/61092.html . It's *quick*, it's *free*, and it will help keep you *better informed*.



As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

You may continue also to receive paper copies of site information for a time after you sign up with a county listserv, until the transition to electronic distribution is complete.

Note: Please disregard if you received this notice by way of a county email listserv.

Electronic copies:

R. Schick, Director, Division of Environmental Remediation
A. English, Director, Bureau of Technical Support
K. Lewandowski, Chief, Site Control Section
M. Cruden, Director, Remedial Bureau E
G. Sutton, RHWRE, Region 9
D. Denk, Regional Permit Administrator, Region 9
M. Gollwitzer, Regional CPS, Region 9
K. Anders, NYSDOH
L. Ennist, DER, Bureau of Program Management
G. May, Project Manager
B. Anderson, Site Control Section
J. Glatz, Manager, Niagara County (Jeff.Glatz@niagaracounty.com)

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1770 Lockport-Olcott Rd
Olcott, NY 14126

George Bencene
Or Current Resident
1802 Lockport-Olcott Rd
Burt, NY 14028

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82 Lowell Rd
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Laverne H Bullard
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Russell A Crandall
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Kevin J Drake
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4410 Purdy Rd
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James Edwards
Or Current Resident
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Ronald F Galloway
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59 Park Ave
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Victor E Couturier
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Burt, NY 14028

Gerald S Daniel
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Burt, NY 14028

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Current Resident
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Olcott, NY 14126

Current Resident
1577 Water St
Olcott, NY 14126

Current Resident
5837 Ontario St.
Olcott, NY 14126

Current Resident
1614 Lockport St
Olcott, NY 14126

Current Resident
1622 Lockport St
Olcott, NY 14126

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Newfane, NY 14108

Harold T Hess
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Newfane, NY 14108

Thomas R Hewitson
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Lockport, NY 14094

Michael D Hogan
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Newfane, NY 14108

Randal E Horanburg
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The Honorable Timothy Horanburg
Supervisor, Town of Newfane
Town Hall
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Town Hall
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5789 Ridge Rd
Lockport, NY 14094

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Burt, NY 14028

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Burt, NY 14028

Liana L Martinez
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Newfane, NY 14108

Paul C Jr Mayer
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Burt, NY 14028

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N Tonawanda, NY 14120

James M McDonough
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Mark T McKernan
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Clifford D Miller
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2034 Lockport-Olcott Rd
Burt, NY 14028

Vincent J II Muffoletto
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5752 Ridge Rd
Lockport, NY 14094

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Burt, NY 14028

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1716 Lockport-Olcott Rd
Burt, NY 14028

Curtiss A Noon
Or Current Resident
2473 Lockport-Olcott Rd
Newfane, NY 14108

Molli M Oldenburg
Or Current Resident
1765 W Creek Rd
Burt, NY 14028

James E Palladino
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Richelle J. Pasceri
Lockport City Clerk
One Locks Plaza
Lockport, NY 14094

Kevin Paulsen
PO Box 3432
Kingston, NY 12402

Tashmia Peete
Or Current Resident
1812 Lockport-Olcott Rd
Burt, NY 14028

Diamond Pipiles
Or Current Resident
3370 Lockport Olcott Rd
Lockport, NY 14094

Ann T Raskopf
Or Current Resident
1557 Van Buren St
Olcott, NY 14126

Danielle E Reid
Or Current Resident
2160 Lockport-Olcott Rd
Burt, NY 14028

Ian T Ricker
Or Current Resident
2022 Lockport-Olcott Rd
Burt, NY 14028

Stanton Noon
74 Juniper St
Lockport, NY 14094

Mark Ondrusek
165 Lindy
Beaver Falls, PA 15010

Gertrude E Palmer
Or Current Resident
1962 Creekside Dr
Burt, NY 14028

Anthony B Patronski
2151 Gaines Rd
Albion, NY 14411

Edward J Pawenski
65 Sunset Dr
N Tonawanda, NY 14120

Dana F Pelletier
Or Current Resident
2487 Lockport-Olcott Rd
Newfane, NY 14108

William J Pipiles
Or Current Resident
2465 W Creek Rd
Newfane, NY 14108

Ann T Raskopf
Or Current Resident
1563 Van Buren St
Olcott, NY 14126

James A Reineke
Or Current Resident
2336 Lockport-Olcott Rd
Newfane, NY 14108

Michael P Ritenour
Or Current Resident
1652 Lockport St
Olcott, NY 14126

Henry Roberto
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3065 Lockport-Olcott Rd
Newfane, NY 14108

Michael J Rowan
Or Current Resident
3182 Lockport-Olcott Rd
Newfane, NY 14108

Paula Sattelburg
Lockport City WTP
One Locks Plaza
Lockport, NY 14094

Denita A Schrader
Or Current Resident
6211 Jacques Rd
Lockport, NY 14094

Peter J Sharp
Or Current Resident
1555 Van Buren St
Olcott, NY 14126

Daniel W Sievert
4941 Lake Rd
Burt, NY 14028

The Honorable Marc Smith
Supervisor, Town of Lockport
6560 Dysinger Road
Lockport, NY 14094

John Speer
Or Current Resident
2900 Main St
Newfane, NY 14108

Paul O Strong
528 Robinhood Trl
Bowling Green, KY 42101

Victor Thibault
Or Current Resident
1694 Lockport-Olcott Rd
Burt, NY 14028

Philip Roeser
Or Current Resident
2328 Lockport-Olcott Rd
Newfane, NY 14108

Jeffrey M Russell
Or Current Resident
2344 Lockport-Olcott Rd
Newfane, NY 14108

Arthur W Sauer
5415 Grauer Rd
Niagara Falls, NY 14305

Laverne H Sewar, Life Use
Or Current Resident
6187 Jacques Rd
Lockport, NY 14094

Kenneth H II Sherrie
6139 East Ave
Newfane, NY 14108

Timothy J Skura
166 Calvin Ct
Tonawanda, NY 14150

Paul Sokolofsky
Or Current Resident
3122 Lockport-Olcott Rd
Newfane, NY 14108

Robin L Standerwick
Or Current Resident
6161 Condren Rd
Newfane, NY 14108

Andrew L Sweeney
Or Current Resident
2360 Lockport-Olcott Rd
Newfane, NY 14108

Donald V Tompkins
Or Current Resident
3092 Lockport Olcott Rd
Newfane, NY 14108

Dorothy Root
12060 Million Dollar Hwy
Medina, NY 14103

Lee D Samson
Or Current Resident
6025 Mckee Rd
Newfane, NY 14108

Edward Savigny
Or Current Resident
2974 Lockport-Olcott Rd
Newfane, NY 14108

Robert E Seymour
Or Current Resident
1706 Lockport-Olcott Rd
Burt, NY 14028

Jeffery L Shorr
187 Independence Dr
Lockport, NY 14094

Gregory R Smith
Or Current Resident
1791 West Creek Rd
Burt, NY 14028

Eric T Soles
Or Current Resident
6118 Condren Rd
Newfane, NY 14108

Candance J Starr
Or Current Resident
2961 Ewings Rd
Newfane, NY 14108

Donald J Swing
Or Current Resident
1774 Lockport-Olcott Rd
Burt, NY 14028

Daniel G Jr. Tronolone
Or Current Resident
2791 W Creek Rd
Newfane, NY 14108

Donald Raymond Tubridy
Or Current Resident
1984 Creekside Dr
Burt, NY 14028

The Honorable Michael Tucker
Mayor, City of Lockport
One Locks Plaza
Lockport, NY 14094

Shari Lynne Valery
Or Current Resident
1710 Lockport-Olcott Rd
Burt, NY 14028

Jane M Voelpel
Or Current Resident
1576 Lockport St
Olcott, NY 14126

John H and Erin C Voelpel
Or Current Resident
2765 W Creek Rd
Newfane, NY 14108

George E Ward, Life Use
Or Current Resident
2634 W Creek Rd
Newfane, NY 14108

Albert Warreck
Or Current Resident
4392 Purdy Rd
Lockport, NY 14094

Ronald A Watts
Or Current Resident
1751 W Creek Rd
Burt, NY 14028

Gerald T Weaver
Or Current Resident
2370 Lockport Olcott Rd
Newfane, NY 14108

Joseph N Webb
Or Current Resident
2429 Lockport-Olcott Rd
Newfane, NY 14108

Robert E Webb
2116 Fuller Rd
Burt, NY 14028

James J Weber
Or Current Resident
2469 W Creek Rd
Newfane, NY 14108

James T West
3825 Millersport Hwy
Getzville, NY 14068

Elizabeth White
1990 Lockport-Olcott Rd
Burt,, NY 14028

Michael H White
Or Current Resident
3580 Lockport-Olcott Rd
Lockport, NY 14094

Christopher M Wieland
Or Current Resident
5869 Ide Rd
Newfane, NY 14108

Joan G Wilson
Or Current Resident
3633 Ewings Rd
Lockport, NY 14094

Wm L Wilson
Or Current Resident
3944 Ewings Rd
Lockport, NY 14094

Ann L Winkley
Or Current Resident
2441 Lockport-Olcott Rd
Newfane, NY 14108

Thomas E Wolcott
Or Current Resident
1778 Lockport-Olcott Rd
Burt, NY 14028

James R Yarrington
Or Current Resident
2968 Lockport-Olcott Rd
Newfane, NY 14108

Sharmon B Zehr
Or Current Resident
2622 W Creek Rd
Newfane, NY 14108

Gerald J Zuber
Or Current Resident
3902 Ewings Rd
Lockport, NY 14094

Bald/Simons Partnership Ltd
101 Regent Ave
Lockport, NY 14094

Cerrone Armand Inc
4625 Witmer Rd
Niagara Falls, NY 14300

Consolidated Rail Corp
Suite 3210
1717 Arch Street
Philadelphia,, PA 19103

CSX Transportation Inc
500 Water St
Jacksonville, FL 32202

Forest Creek Properties, LLC
8458 Chapman Road
Gasport, NY 14067

Hedley Boat Co
5723 West Bluff
Olcott, NY 14126

Isochem Inc
1 No Transit Rd
Lockport, NY 14094

J & L Industries Inc
PO Box 307
5764 W. Lake Rd.
Olcott, NY 14126

Kaplan Newco, LLC
130 Despatch Dr
East Rochester, NY 14445

Kenyon Limited Partnership
859 Davison Rd
Lockport, NY 14094

Lakeview Cemetery Assn
5659 Hidden Lake Dr
Lockport, NY 14094

Leo F Malloy Topsoil Inc
3677 Ewings Rd
Lockport, NY 14094

Newfane Historical Society Inc.
2165 Lockport-Olcott Rd
Burt,, NY 14028

Niagara Mohawk Power Corp
300 Erie Blvd
Syracuse, NY 13202

Olcott Bible Church Inc
5601 Lake Road
Olcott, NY 14126

Olcott Harbor Board of Trade, Inc.
1626 Lockport St
Olcott, NY 14126-0005

Olcott Marine Inc
2505 Coomer Rd
Burt,, NY 14028

Olcott Yacht Club Inc
PO Box 715
Olcott, NY 14126

Q-Somerset Railroad Corp
7725 Lake Rd
Barker, NY 14012

Town of Newfane Marina
2896 Transit Rd
Newfane, NY 14108

Vanchlor Company Inc
45 Main St
Lockport, NY 14094

Zehr Farms Inc
6178 Jacques Rd
Lockport, NY 14094

Zillig Revocable Trust
143 Scenic Dr
Cocoa, FL 32926

Herbert Downs
Administrative Director, Niagara
County Water District
5450 Ernest Rd.
Lockport, NY 14095

Richard Forsey
Chair, Town of Lockport Planning
Board
6560 Dysinger Road
Lockport, NY 14094

Wayne F. Jagow
Niagara County Clerk
Niagara Co. Courthouse, 1st Fl.
PO Box 461
Lockport, NY 14095-0461

NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

September 19, 2012

Mr. Michael Cruden, Director
Remedial Bureau E
NYS Dept. of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233

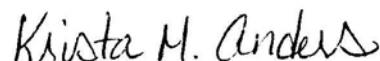
Re: **Site Classification Package**
Eighteenmile Creek Sediments
Site #932156
Lockport(C) to Olcott (V), Niagara County

Dear Mr. Cruden:

Staff reviewed the *Site Classification Package* that proposes listing the referenced property as a Class 2 site on the New York State Department of Environmental Conservation's Registry of Inactive Hazardous Waste Disposal Sites. Based on that review, I understand the site encompasses the reaches of the creek downstream of the Eighteenmile Creek Corridor site (#932121) from Lockport to Olcott. Polychlorinated biphenyls and metals have been documented in creek sediments at concentrations exceeding applicable standards, criteria and guidance values. Due to the contamination, the NYSDOH maintains a "Don't Eat Any" fish advisory for the entire creek. Furthermore, there is a potential for people to be exposed to the contamination through recreational use of the creek. Additional investigation is needed to define the nature and extent of contamination and to select appropriate remedial measures.

With this information, I believe the site represents a significant threat to human health and concur with your Department's proposal to list the site as a Class 2. If you have any questions, please contact me or Ms. Deanna Ripstein at (518) 402-7860.

Sincerely,



Krista M. Anders, Acting Director
Bureau of Environmental Exposure Investigation

ec: A. Salame-Alfie, Ph.D.
D. Ripstein / e-File
M. Forcucci – NYSDOH WRO
J. Devald – NCHD
K. Lewandowski – NYSDEC Central Office
G. Sutton / G. May – NYSDEC Region 9

P:\Bureau\Sites\Region_9\NIAGARA\932156\Class_DOHConcur_091912_932156.pdf



SSF CLASSIFICATION WORKSHEET



Site Name: Eighteenmile Creek Sediments Site

Site ID No. 932156

City/Town: Lockport

County: Niagara

1. Has remediation been completed in accordance with a ROD including properly addressing institutional controls (ICs)?	<input type="checkbox"/> Yes (go to 7)	<input checked="" type="radio"/> No (go to 2)	
2. Has hazardous waste as defined in ECL §27-1301.1 been disposed at the Site?	<input checked="" type="radio"/> Yes (go to 3)	<input type="checkbox"/> No (stop)	<input type="checkbox"/> Unsure (go to 11)
3. Does the Site present a current or reasonably foreseeable significant threat to public health or the environment (complete Significant Threat Determination Worksheet)?	<input checked="" type="radio"/> Yes (go to 4)	<input type="checkbox"/> No (go to 6)	<input type="checkbox"/> Unsure (go to 11)
4. Is the significant threat causing or presenting an imminent danger of causing irreversible or irreparable damage to public health or the environment?	<input type="checkbox"/> Yes (Class 1)	<input checked="" type="radio"/> No (go to 5)	<input type="checkbox"/> Unsure (stop)
5. Is the Site presenting a significant but not imminent threat to public health or the environment?	<input checked="" type="radio"/> Yes (Class 2)	<input type="checkbox"/> No (reevaluate)	
6. Has hazardous waste been disposed but it does not present a significant threat to public health or the environment and the site is suitable for placement on the Registry?	<input type="checkbox"/> Yes (Class 3)	<input type="checkbox"/> No (go to 10)	
7. Is the site properly remediated but still requires continued active site management to maintain/achieve protectiveness?	<input type="checkbox"/> Yes (Class 4)	<input type="checkbox"/> No (go to 8)	<input type="checkbox"/> Unsure (stop)
8. Is the site properly remediated, does not require continued active site management, but is not suitable for delisting or a required IC is not yet in place?	<input type="checkbox"/> Yes (Class 5)	<input type="checkbox"/> No (go to 9)	<input type="checkbox"/> Unsure (stop)
9. Is the site properly remediated, required ICs are in place, the site does not require continued active site management, and is suitable for delisting?	<input type="checkbox"/> Yes (Class: C)	<input type="checkbox"/> No (go to 10)	<input type="checkbox"/> Unsure (stop)
10. Based upon investigation, is the degree of contamination such that the Site does not qualify to be placed on the Registry and that additional remedial work is not anticipated at this time?	<input type="checkbox"/> Yes (Class: N)	<input type="checkbox"/> No (reevaluate)	<input type="checkbox"/> Unsure (stop)
11. Does insufficient information exist to properly classify the site?	<input type="checkbox"/> Yes (Class P)	<input type="checkbox"/> No (reevaluate)	<input type="checkbox"/> Unsure (stop)

Current Classification: P

Proposed Classification: 2

Glenn M. May, EG2
Project Manager Name/Title - Print

Project Manager Name - Signature

08/17/2012
Date

Gregory P. Sutton, RHWRE R9
Bureau Director/RHWRE Name/Title - Print

Bureau Director/RHWRE Name - Signature

08/20/2012
Date



SIGNIFICANT THREAT DETERMINATION WORKSHEET



State Superfund Program
6 NYCRR 375-2.7

Brownfield Cleanup Program
ECL 27-1411.1(c)

Site Name: Eighteenmile Creek Sediments Site

Site ID No.: 932156

City/Town: Lockport

County: Niagara

1. Has all available and relevant evidence regarding the Site been reviewed and the factors in 375-2.7(a)(3) considered?	<input checked="" type="checkbox"/> Yes (go to 2)	<input type="checkbox"/> No (stop)	<input type="checkbox"/> Unsure (stop)
2. Does Site contamination result in significant adverse impacts (375-2.7(a)(1)) to:			
a. species that are endangered, threatened, or of concern?	<input type="checkbox"/> Yes (go to b)	<input type="checkbox"/> No (go to b)	<input checked="" type="checkbox"/> Unsure (go to b)
b. protected streams, tidal/freshwater wetlands, or significant fish and wildlife habitat?	<input checked="" type="checkbox"/> Yes (go to c)	<input type="checkbox"/> No (go to c)	<input type="checkbox"/> Unsure (go to c)
c. flora or fauna from bioaccumulation or leads to a recommendation to limit consumption?	<input type="checkbox"/> Yes (go to d)	<input type="checkbox"/> No (go to d)	<input checked="" type="checkbox"/> Unsure (go to d)
d. fish, shellfish, crustacea, or wildlife from concentrations that cause adverse/chronic effects?	<input checked="" type="checkbox"/> Yes (go to e)	<input type="checkbox"/> No (go to e)	<input type="checkbox"/> Unsure (go to e)
e. the environment due to a fire, spill, explosion, or reaction that generates toxic gases, vapors, fumes, mists or dusts?	<input type="checkbox"/> Yes (go to f)	<input type="checkbox"/> No (go to f)	<input checked="" type="checkbox"/> Unsure (go to f)
f. areas where individuals or water supplies may be present and NYSDOH has determined there to be a significantly increased risk to public health (including from soil vapor)?	<input checked="" type="checkbox"/> Yes (go to 3)	<input type="checkbox"/> No (go to 3)	<input type="checkbox"/> Unsure (go to 3)
3. Does Site contamination result in significant environmental damage (375-2.7(a)(2))?	<input checked="" type="checkbox"/> Yes (go to 4)	<input type="checkbox"/> No (go to 4)	<input type="checkbox"/> Unsure (stop)
4. If any box in items 2 or 3 have been checked "Yes," the site presents a significant threat to public health or the environment; check here.	Significant threat to: <input checked="" type="checkbox"/> Public Health <input checked="" type="checkbox"/> Environment		
5. If no boxes in items 2 or 3 have been checked "Yes," the site does not present a significant threat to public health or the environment; check here.	<input type="checkbox"/> Not a Significant Threat		
<p><u>Glenn M. May, EG II</u> <u>08/17/2012</u> Project Manager Name/Title (Print) Project Manager Name (Signature) Date</p> <p><u>Gregory P. Sutton, RHWRE</u> <u>08/20/2012</u> Bureau Director/RHWRE Name/Title (Print) Bureau Director/RHWRE Name (Signature) Date</p>			

SITE LOCATION MAP

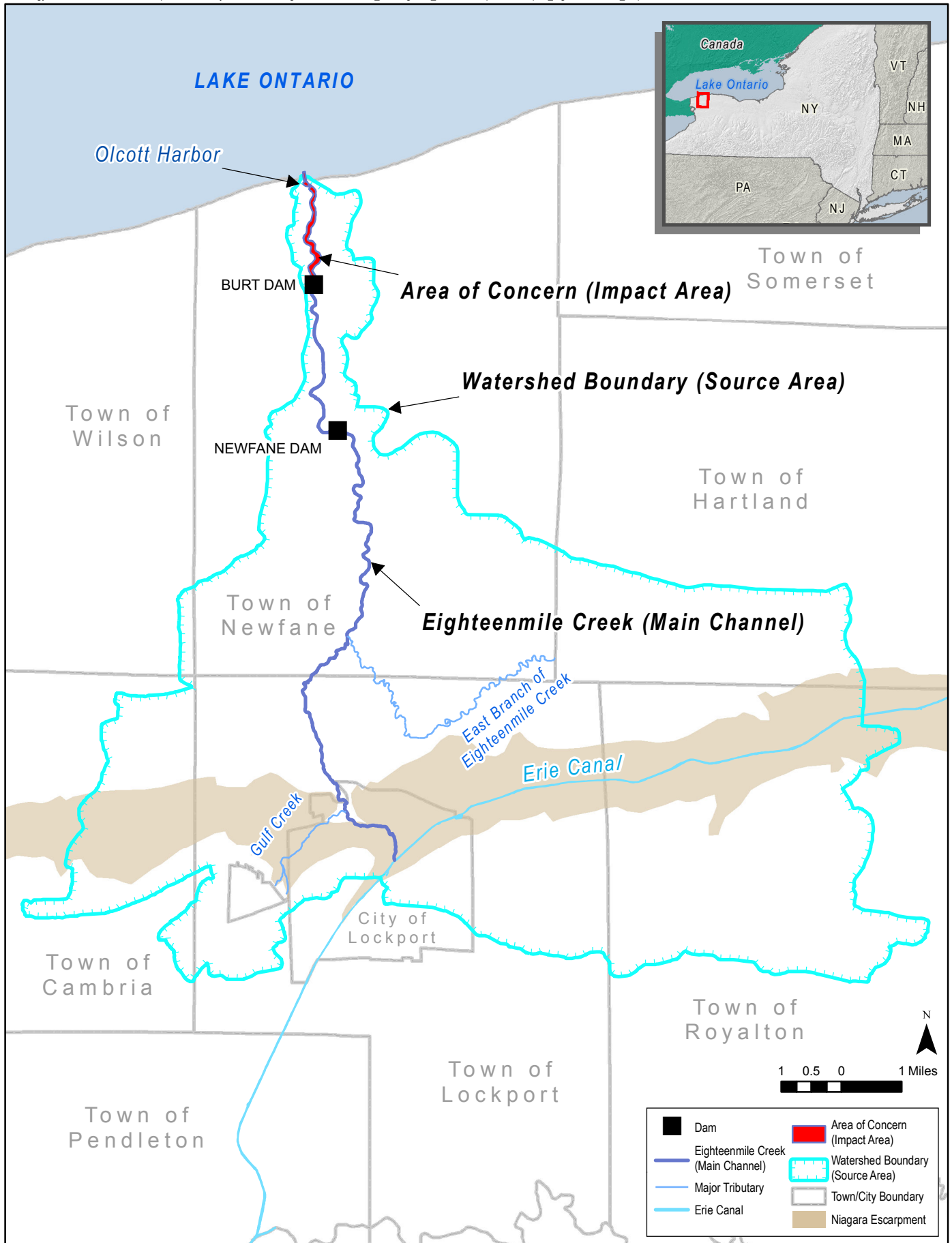


Figure 1 Eighteenmile Creek AOC Project Area and Watershed Boundaries

DETAILED SITE MAP

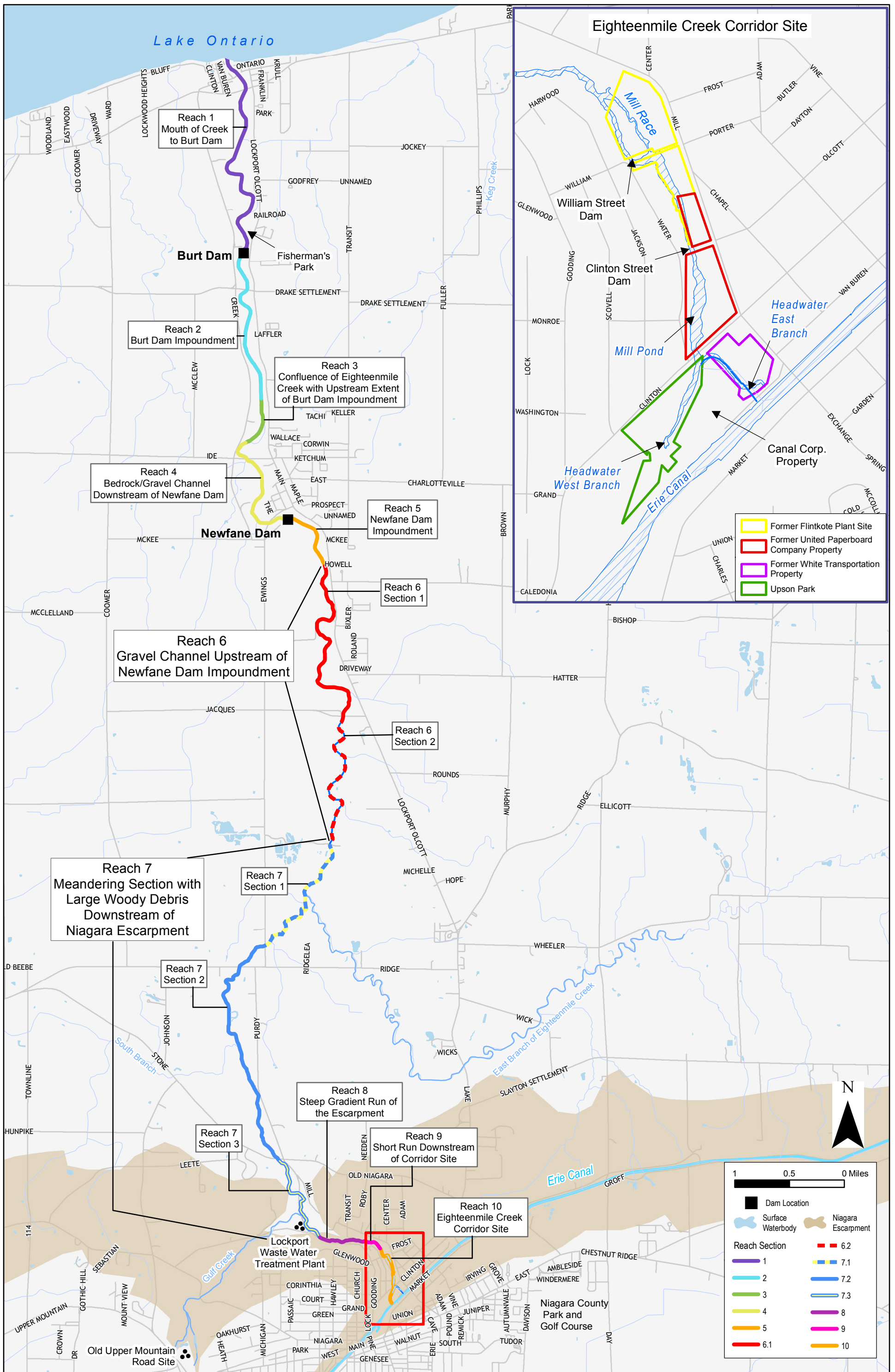
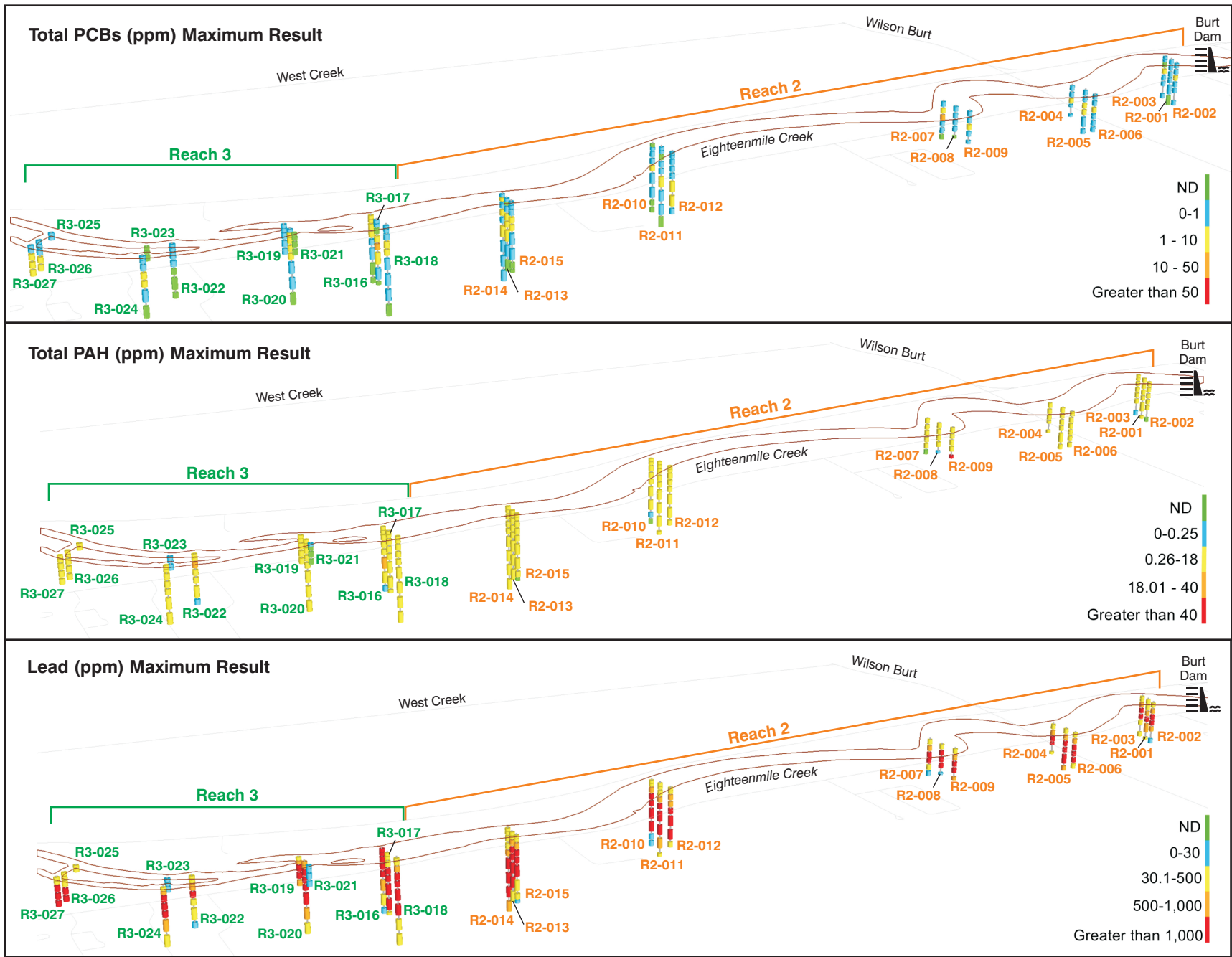


Figure 2 Eighteenmile Creek AOC Project Investigation Areas

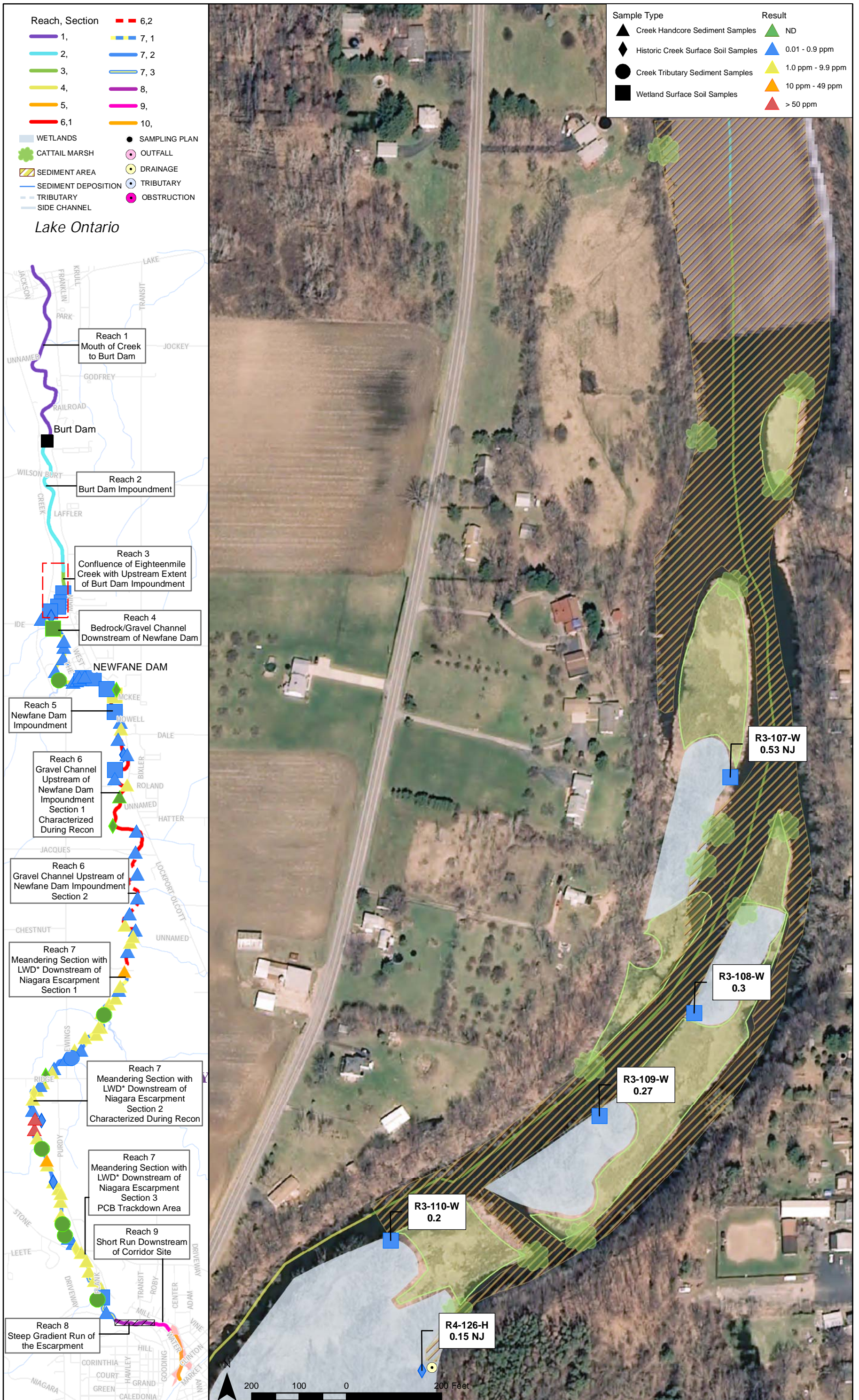
CONTAMINANT CONCENTRATION MAPS



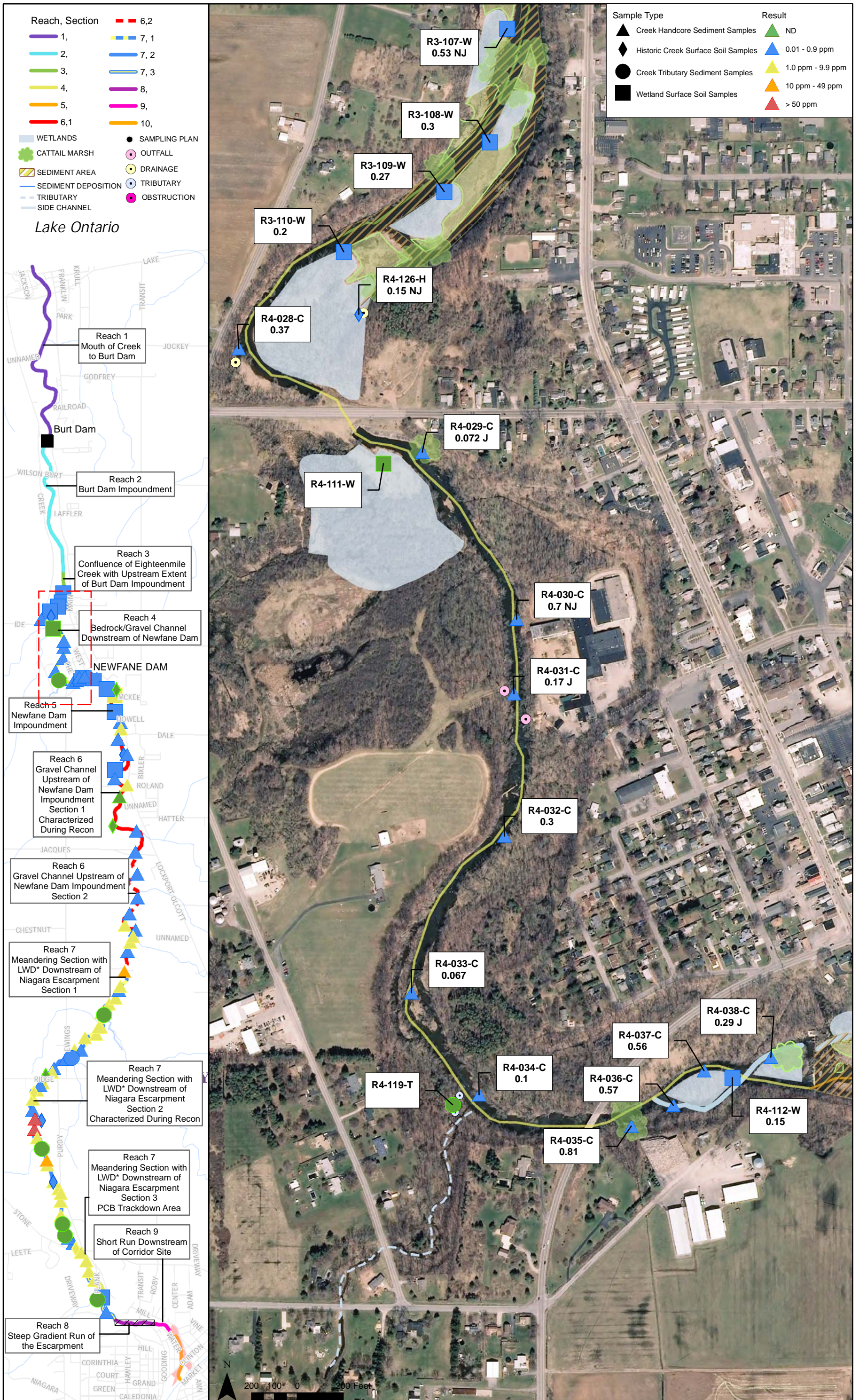
Note: Only cores from the EPA 2011 Data Summary Report are shown. Core sample segments are not to scale. Each segment represents approximately one foot.



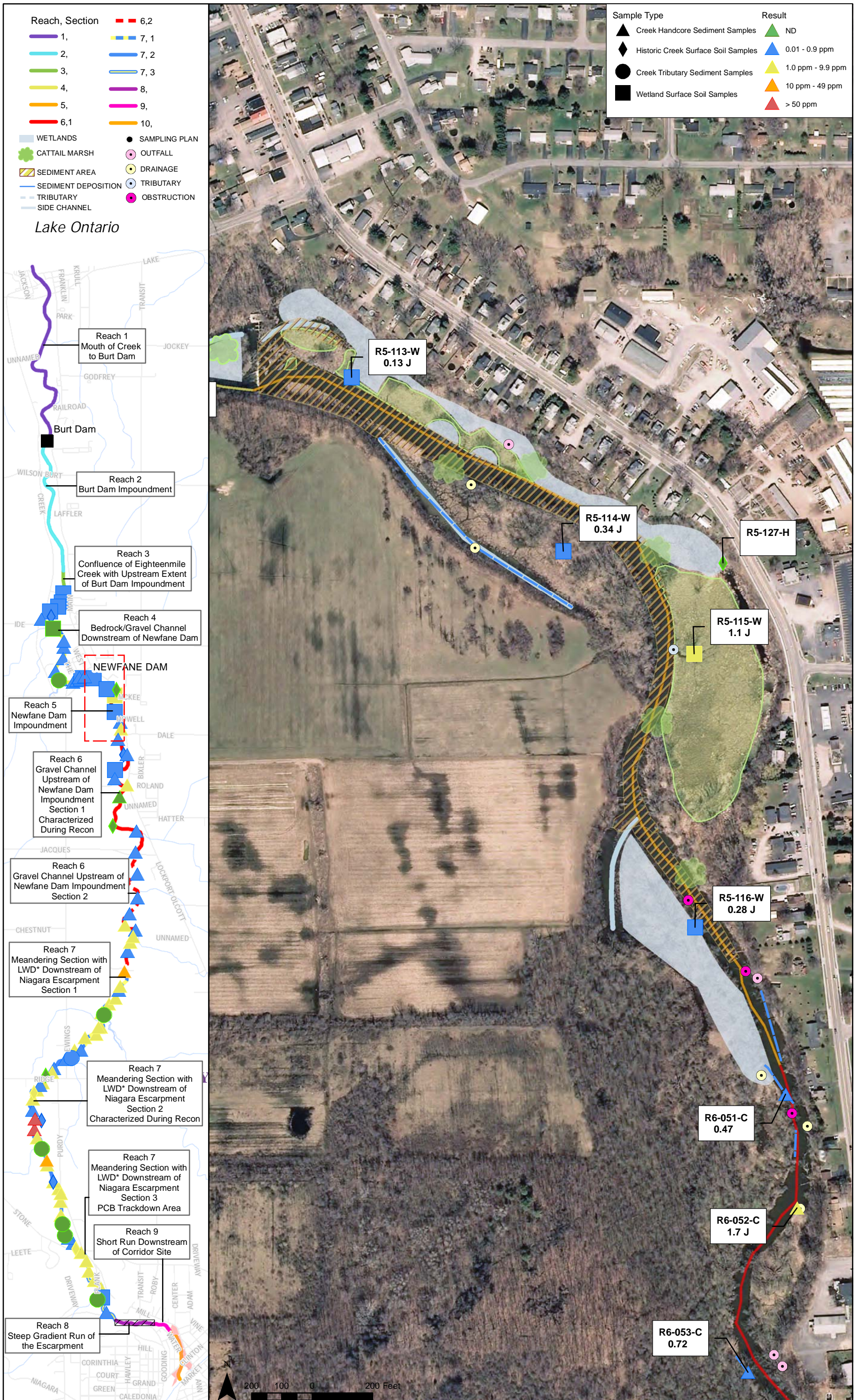
Figure 6 Eighteenmile Creek AOC Distribution of PCB, PAH and Lead in Sediment Cores for Reaches 2 and 3



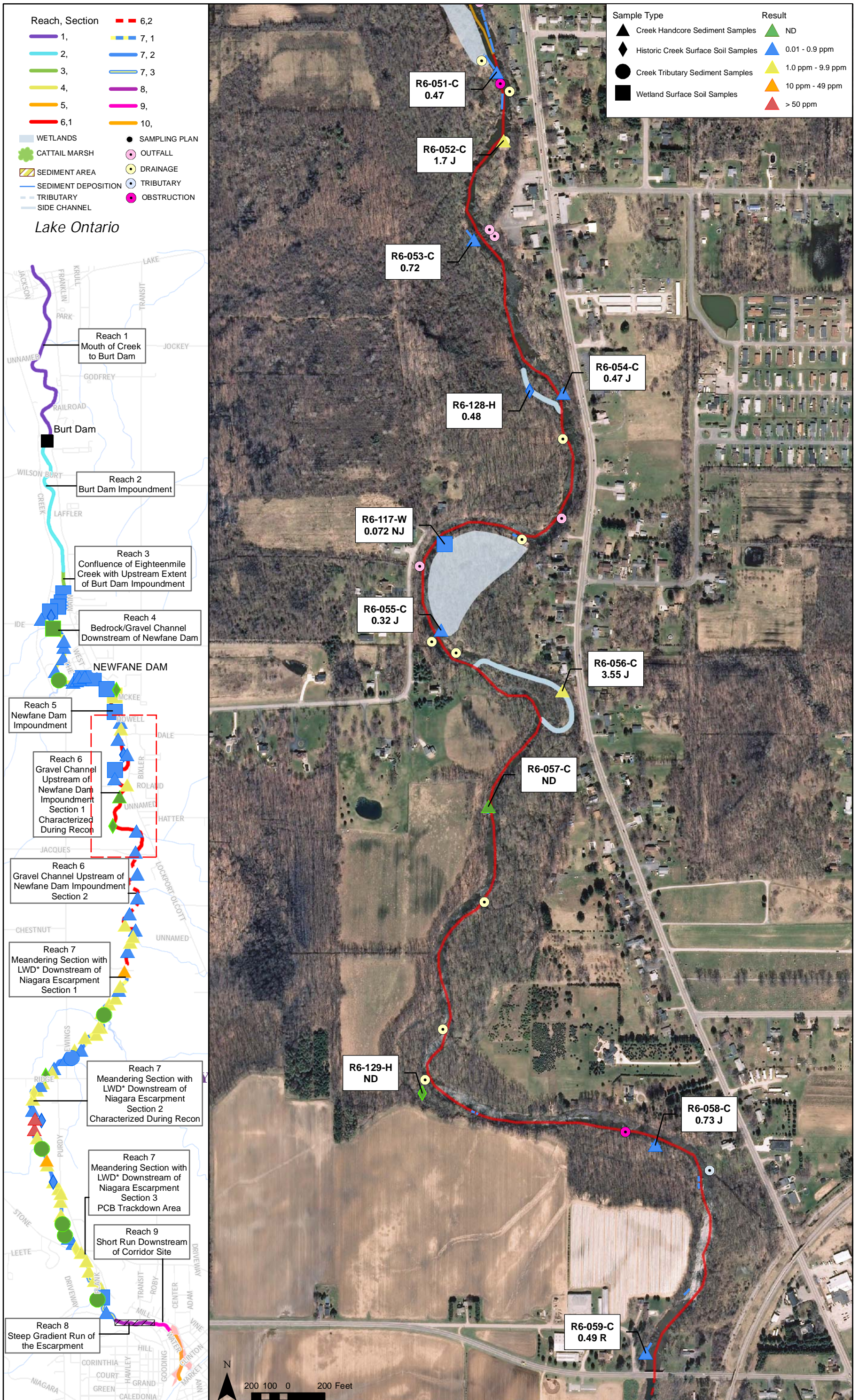
Reach 3 2009 Site Characterization PCB Results



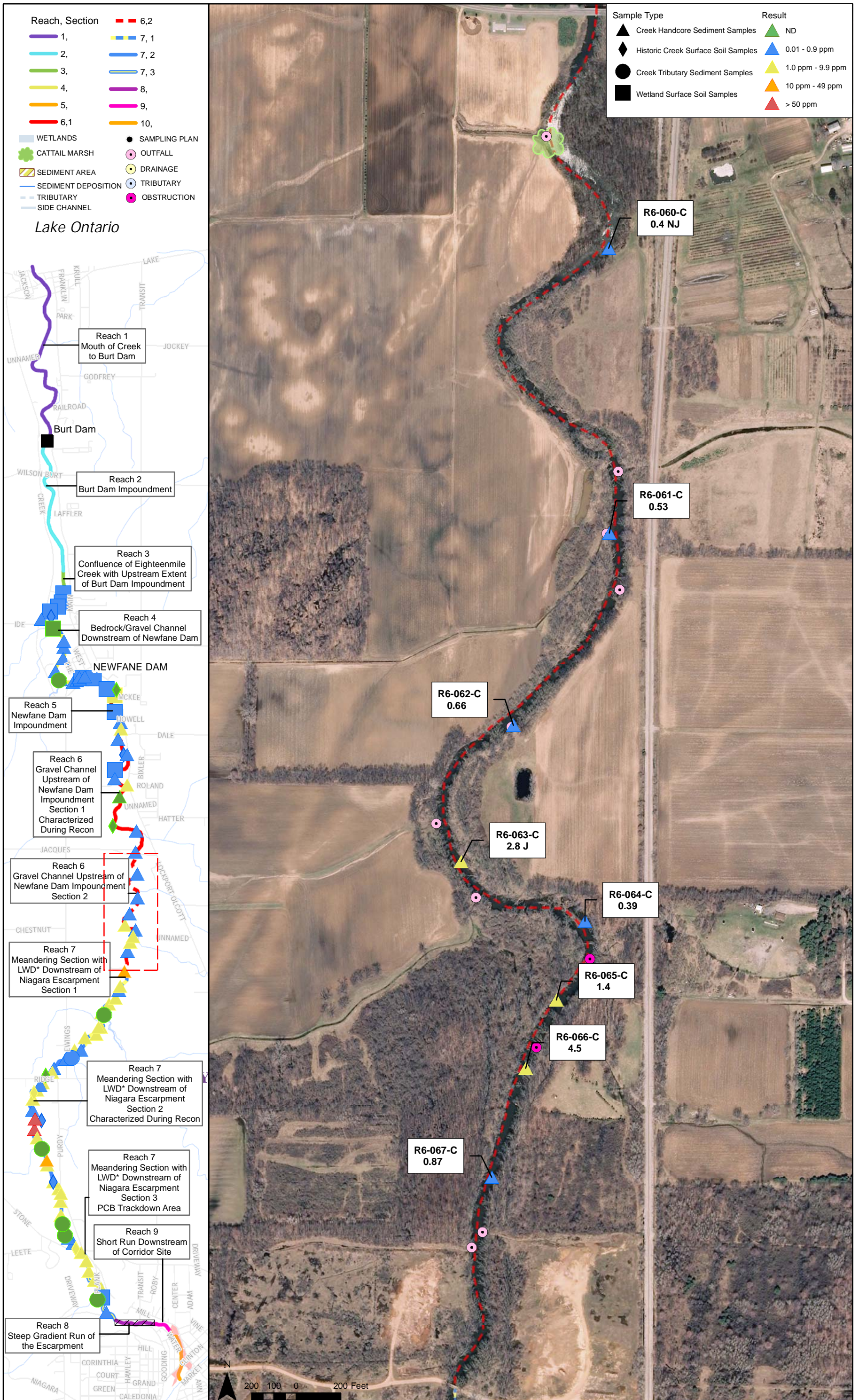
Reach 4 2009 Site Characterization PCB Results



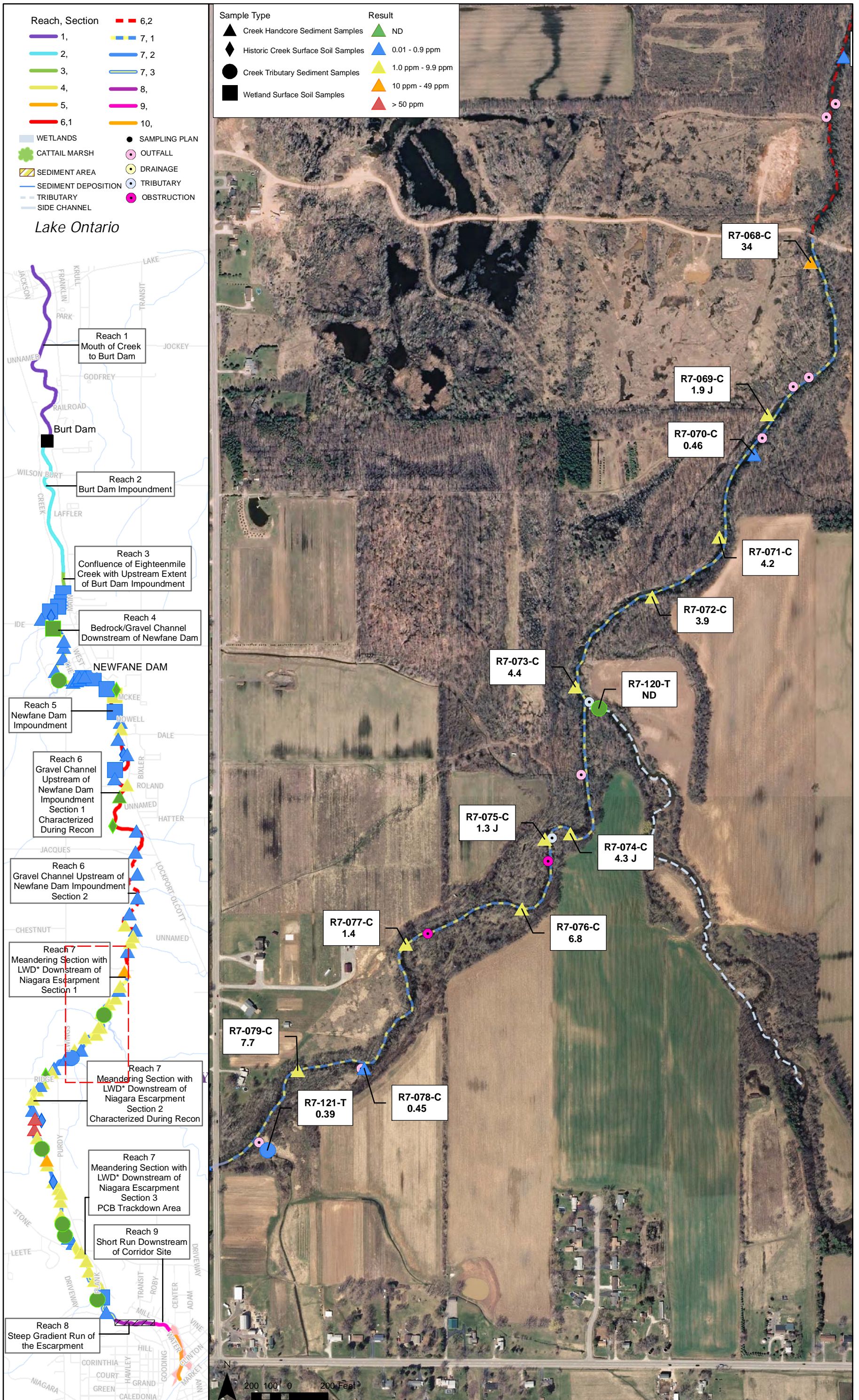
Reach 5 2009 Site Characterization PCB Results



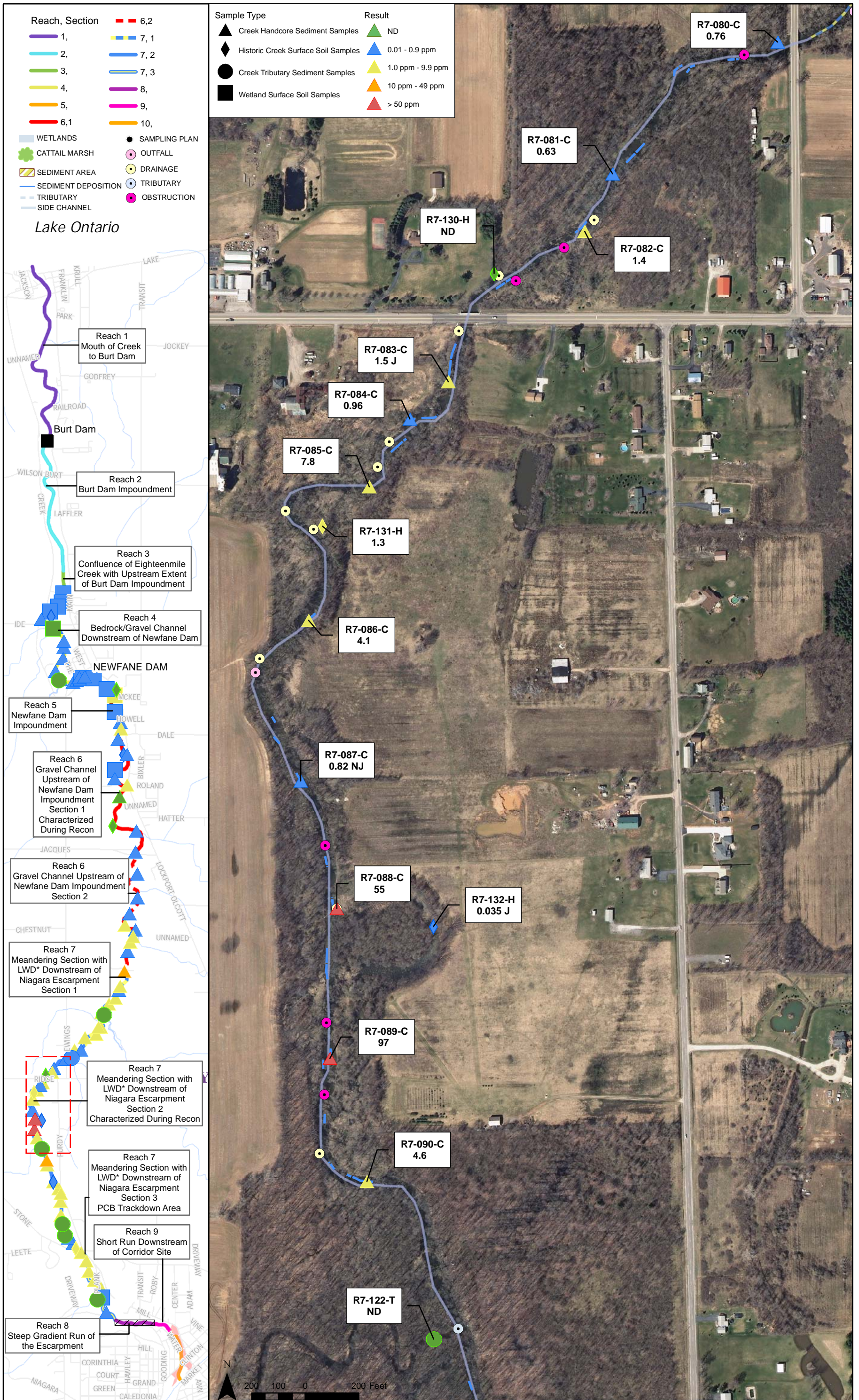
Reach 6 Section 1 2009 Site Characterization PCB Results



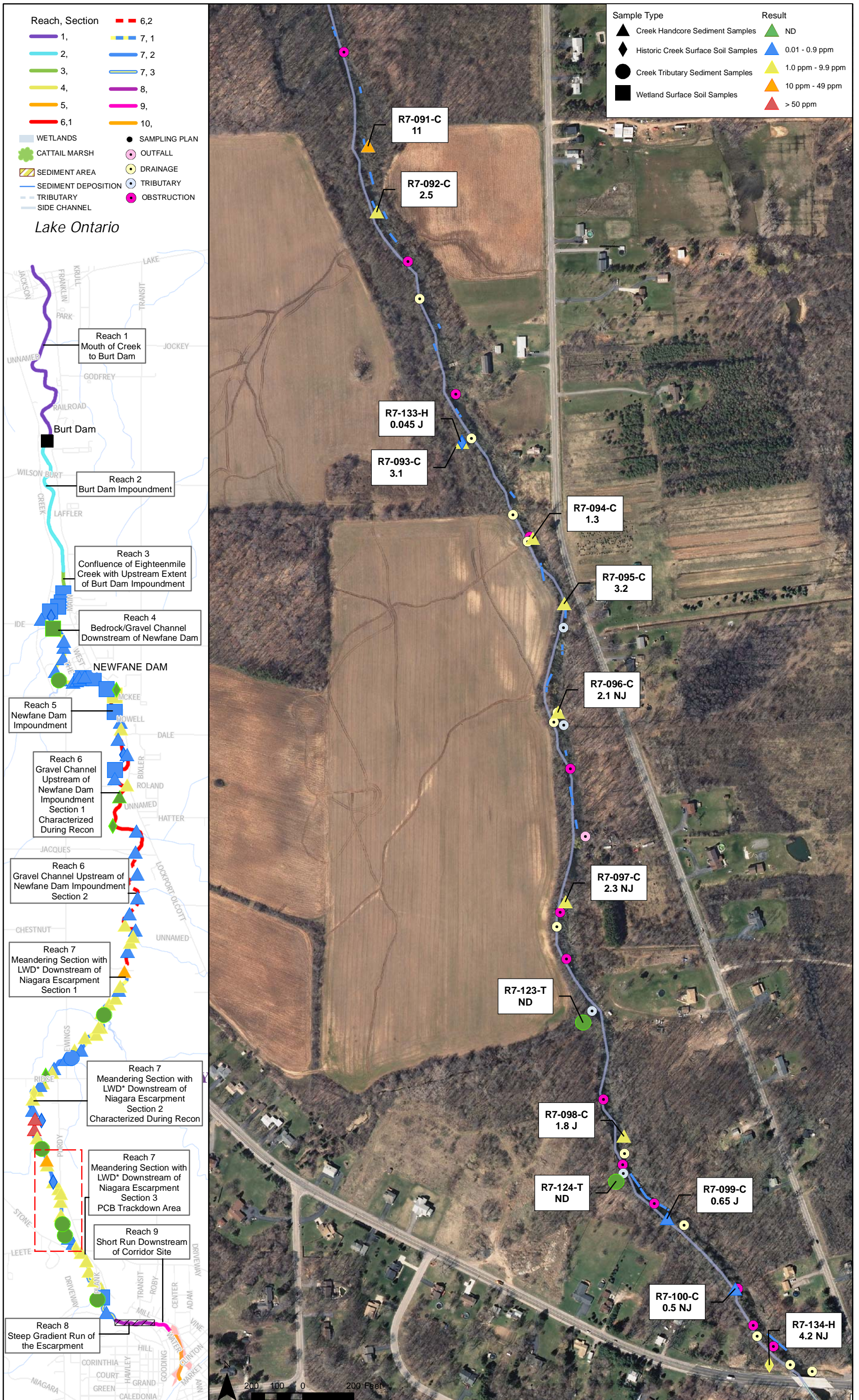
Reach 6 Section 2 2009 Site Characterization PCB Results



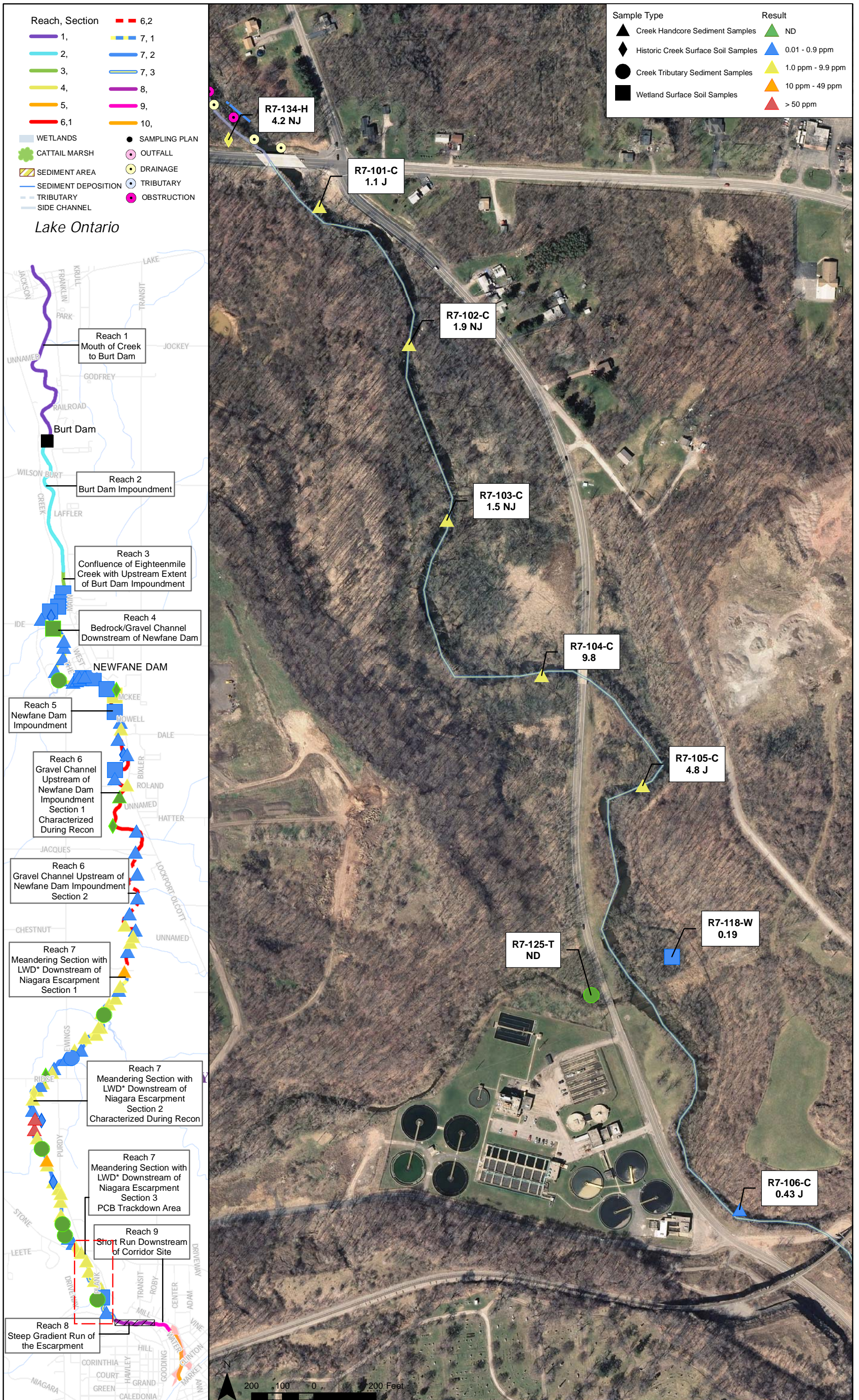
Reach 7 Section 1 2009 Site Characterization PCB Results



Reach 7 Section 2 Part 1 2009 Site Characterization PCB Results



Reach 7 Section 2 Part 2 2009 Site Characterization PCB Results



Reach 7 Section 3 2009 Site Characterization PCB Results

- Reach, Section
- 1, 7, 1
 - 2, 7, 2
 - 3, 7, 3
 - 4, 8
 - 5, 9
 - 6, 10

- Excluded Area
- NYSDEC Eighteenmile Creek Corridor

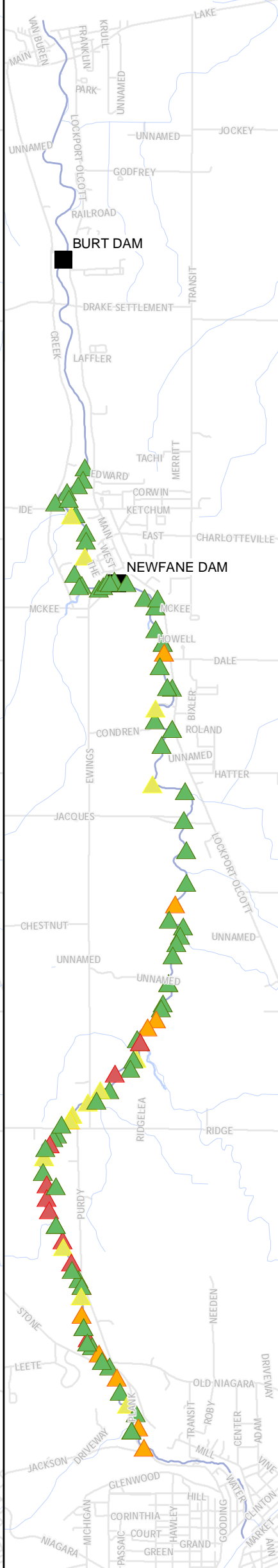
Lake Ontario



Antimony

- ND
- 0 - 0.18 ppm
- 0.19 - 2.5 ppm
- 2.6 - 5 ppm
- > 5 ppm

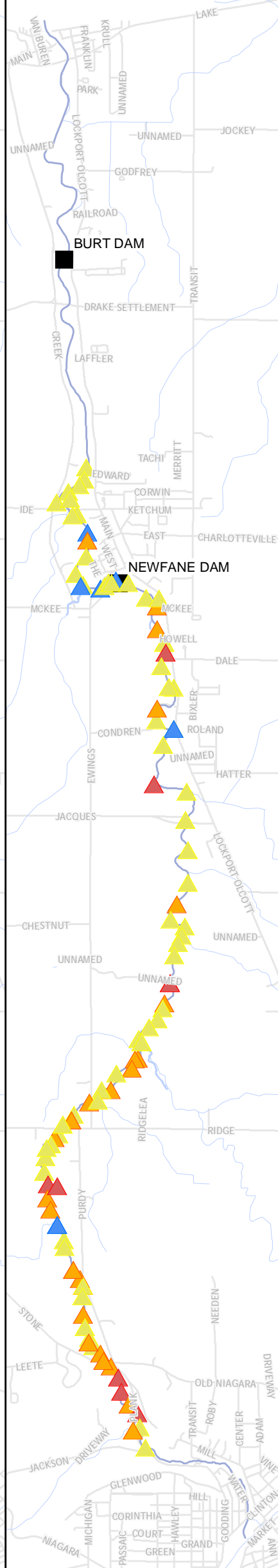
Lake Ontario



Arsenic

- ND
- 0 - 3 ppm
- 3.1 ppm - 6 ppm
- 6.1 ppm - 10 ppm
- >10 ppm

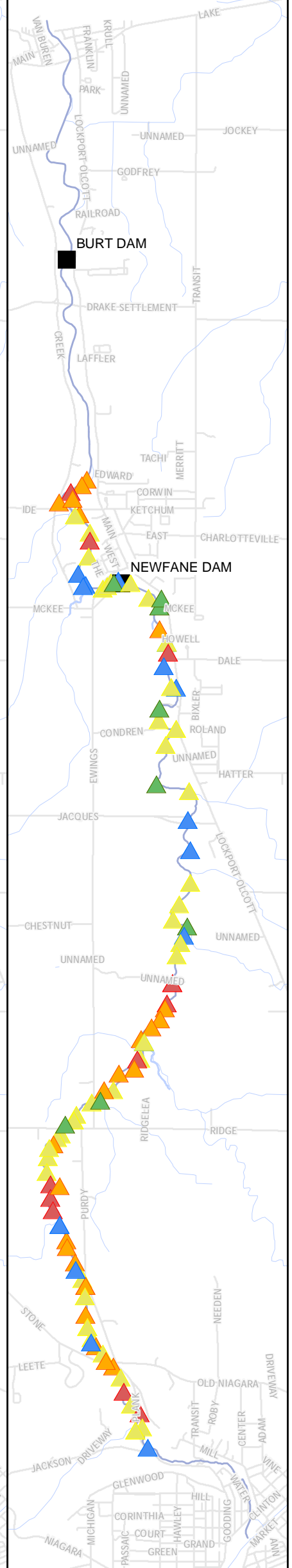
Lake Ontario



Cadmium

- ND
- 0 - 0.6 ppm
- 0.7 - 2 ppm
- 2.1 - 4 ppm
- > 4 ppm

Lake Ontario



0 0.5 1 Miles

- Reach, Section
- 1, 7, 1
 - 2, 7, 2
 - 3, 7, 3
 - 4, 8
 - 5, 9
 - 6, 1, 10

Chromium

- ND
- 0 - 26 ppm
- 26.1 - 140 ppm
- 140.1 - 260 ppm
- > 260 ppm

Copper

- ND
- 0 - 16 ppm
- 16.1 - 380 ppm
- 380.1 - 780
- > 780

Lead

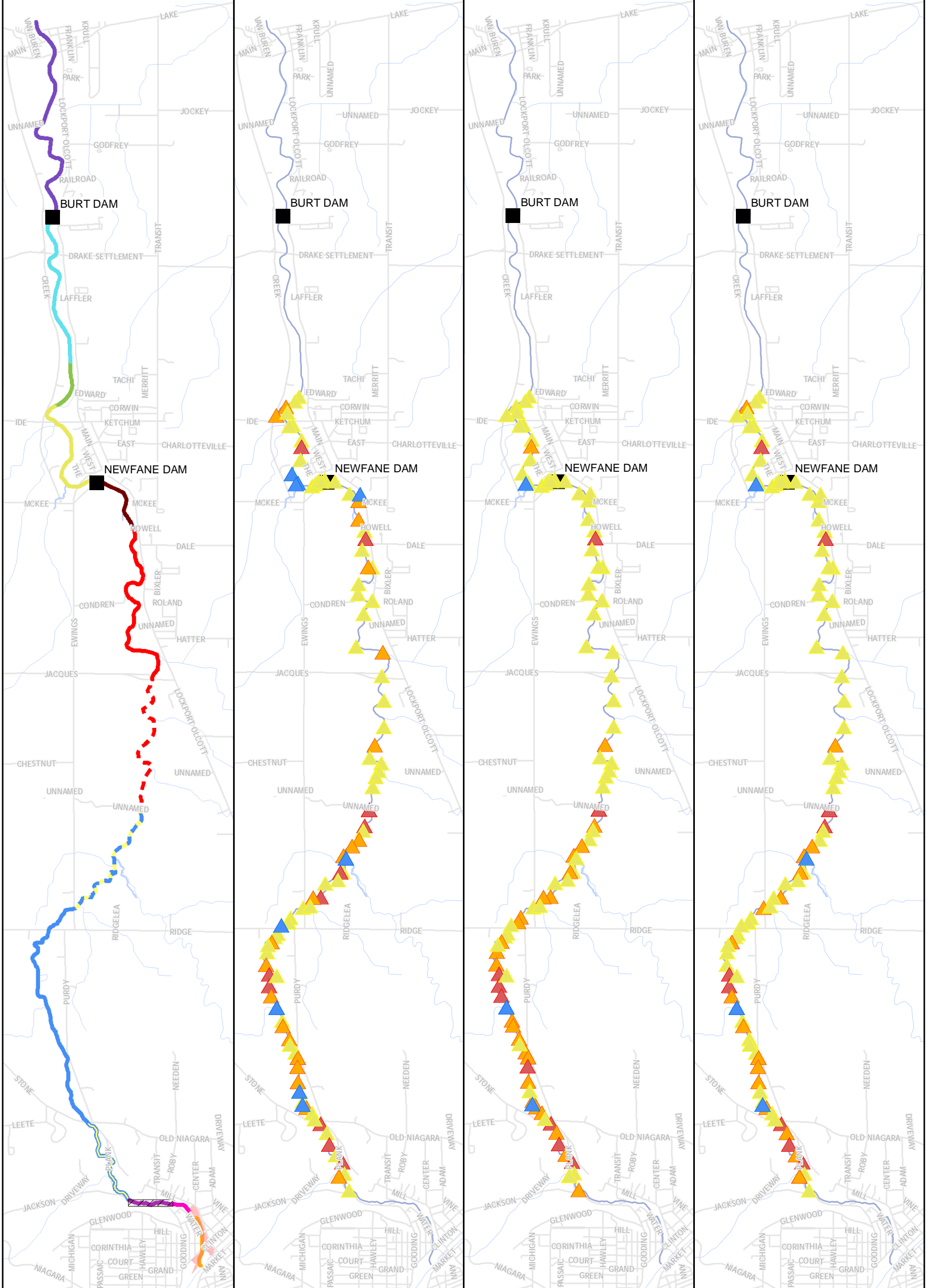
- ND
- 0 - 30 ppm
- 30.1 - 500 ppm
- 500.1 - 1000 ppm
- >1000 ppm

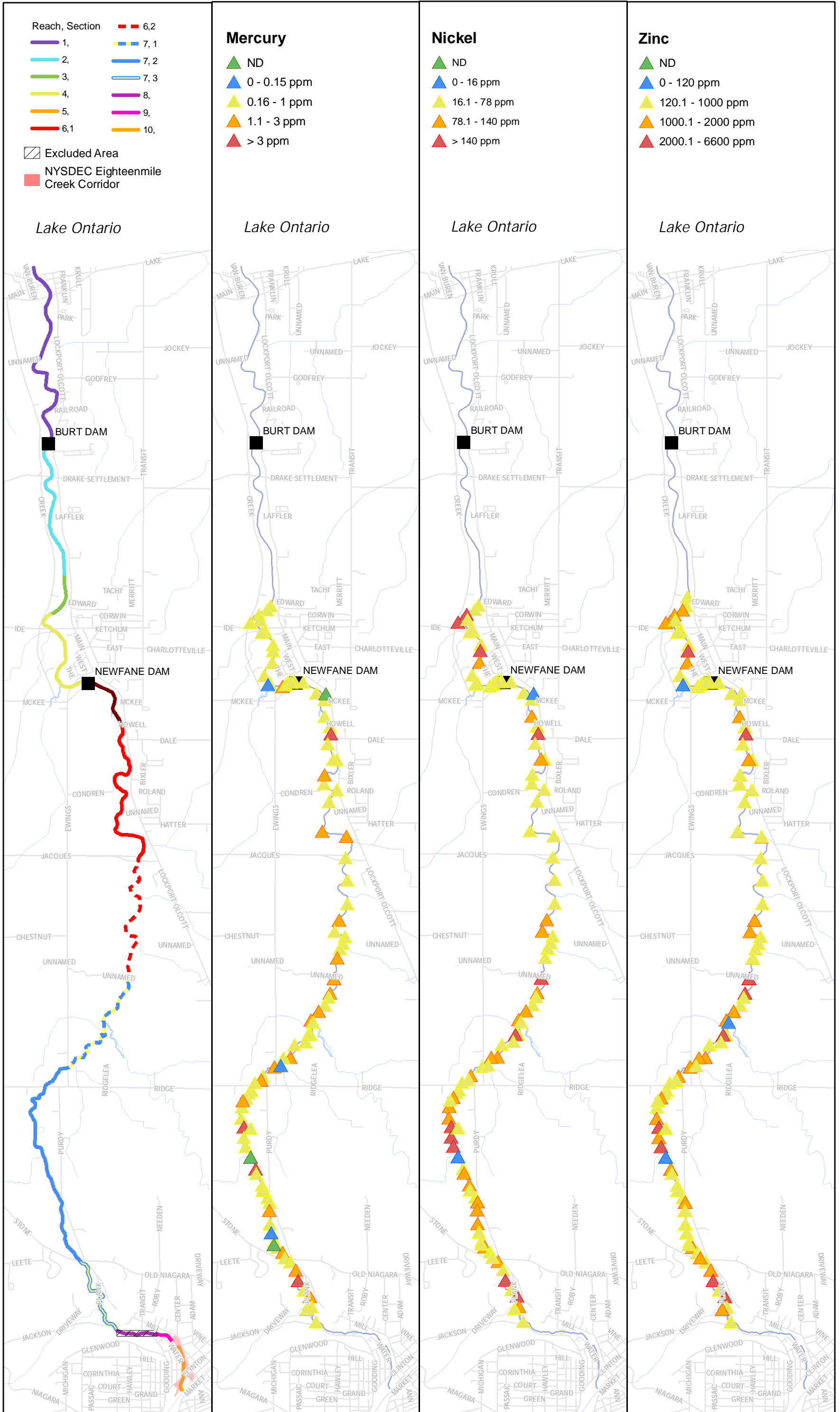
Lake Ontario

Lake Ontario

Lake Ontario

Lake Ontario





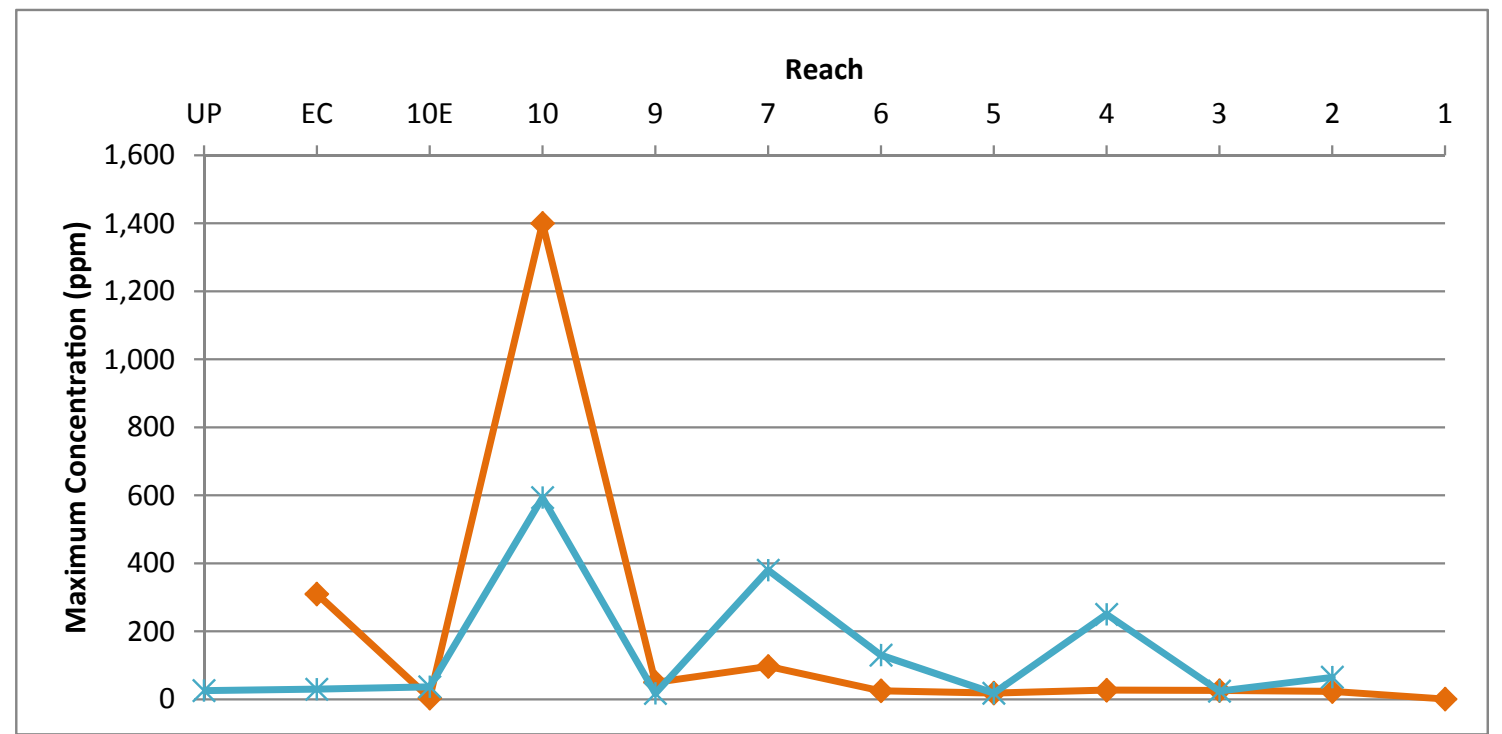
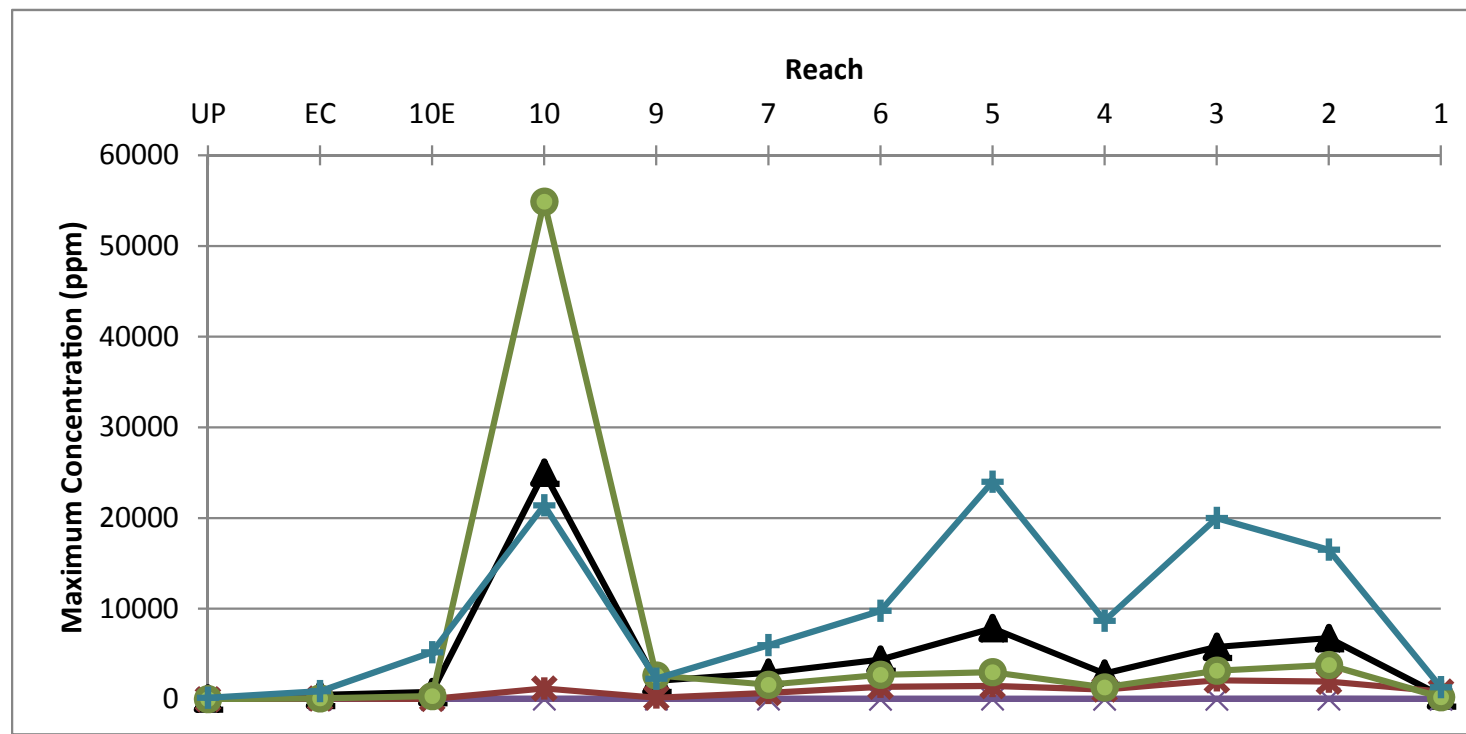
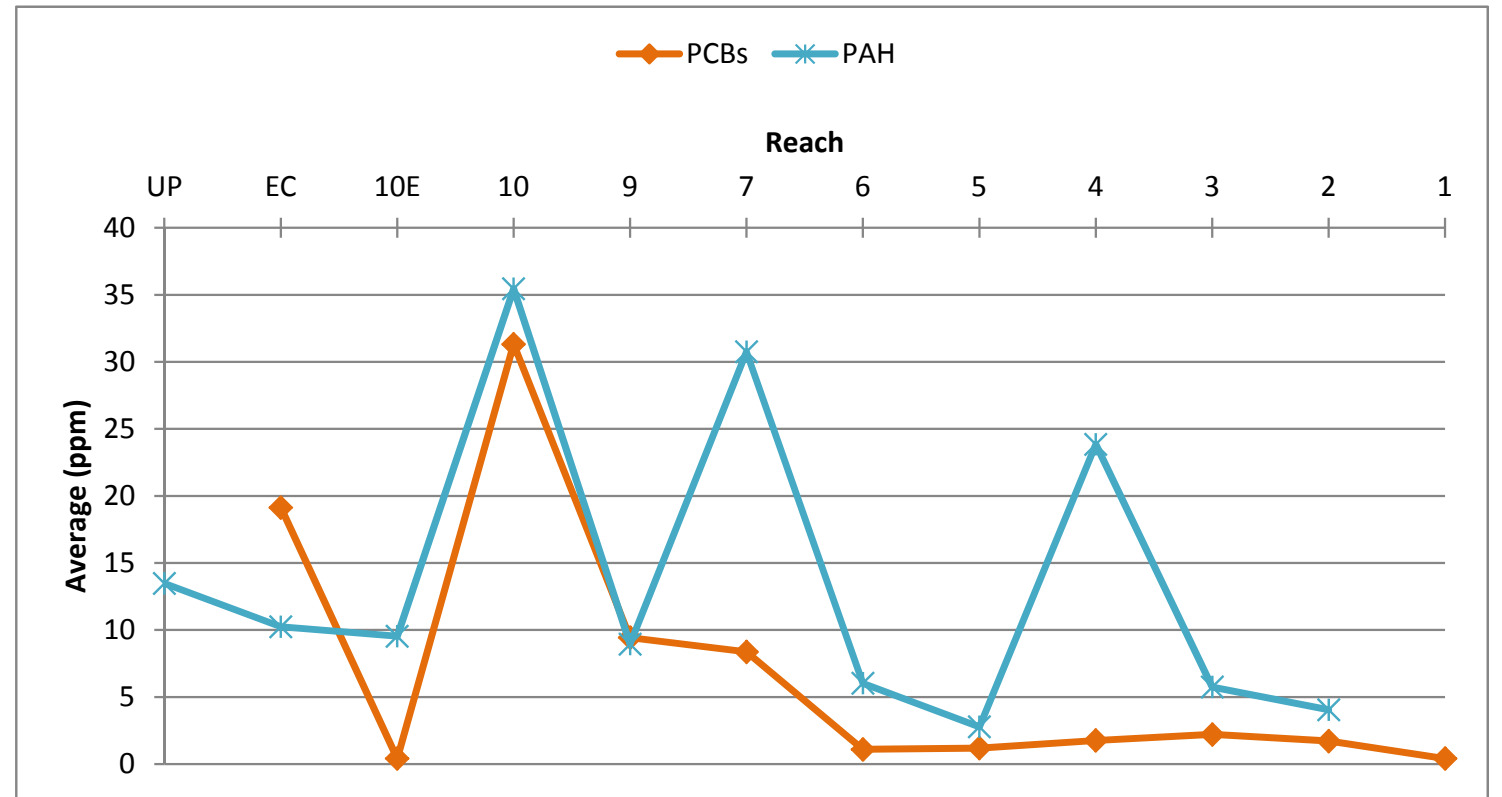
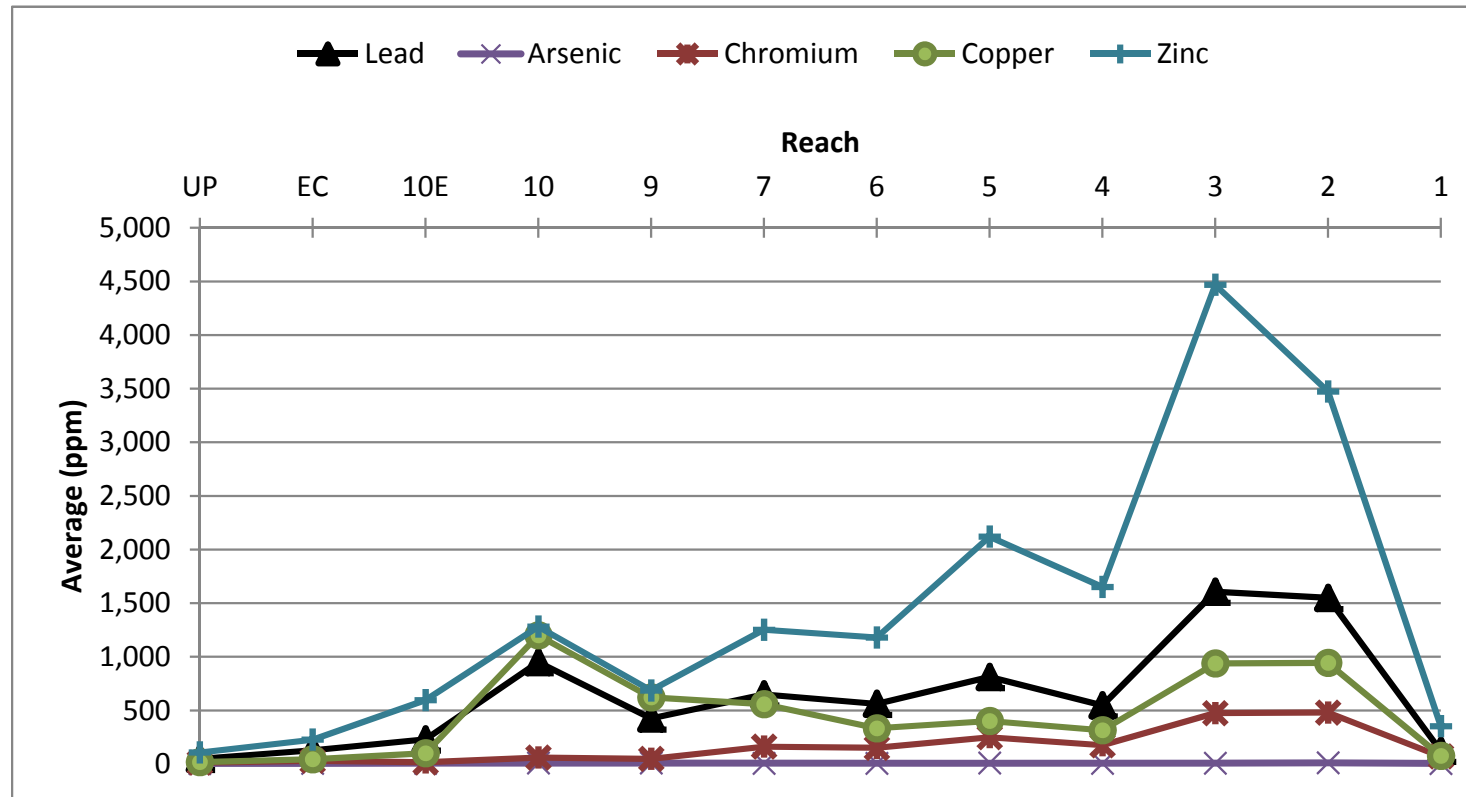


Figure 8 Eighteenmile Creek AOC Concentration Trends of PCBs, PAH and Metals in Sediment by Reach

**CONTAMINANT CONCENTRATION
SUMMARY TABLES**

Table 5
Site-specific Sediment Screening Criteria Primary COPCs
Eighteenmile Creek Area of Concern

COPC	Site-specific Criteria Low Value (mg/kg)	Site-specific Criteria High Value (mg/kg)
PCBs (total)	1	50
PAHs (total)	15	100
ARSENIC	6	33
CHROMIUM, TOTAL	26	110
COPPER	16	110
LEAD	31	110
ZINC	120	270
MERCURY	0.15	1.3

Table 6a

Statistical Summary of PCBs in Sediment Samples for Remedial Investigation

Eighteenmile Creek Area of Concern

PCB (Total Aroclors in mg/kg)								
Sample Location	Reach	Number Detected	Number of Samples	Average ^(a)	Minimum Detected	Maximum Detected	Exceeds Low Criteria ^(b)	Exceeds High Criteria ^(b)
Creek	01	19	32	0.41	0.001	0.9	--	--
Creek	02	114	127	1.7	0.009	23.0	33	--
Creek	03	63	80	2.3	0.0	25.9	27	--
Creek	04	19	22	2.2	0.067	27.0	5	--
Creek	05	39	82	1.1	0.001	18.4	6	--
Creek	06	48	62	1.1	0.018	25.0	9	--
Creek	07	105	121	8.7	0.016	97.0	74	6
Creek	09	22	25	9.4	0.012	50.0	14	1
Creek	10	104	125	32.4	0.006	1400	51	10
Creek_E	10	13	13	0.4	0.012	3.8	1	--
Creek	Totals	546	689				220	17
Canal	Erie Canal	34	36	20.1	0.007	310	18	3
Upstream	Upstream	--	2	--	--	--	--	--
Tributary	04	--	1	--	--	--	--	--
Tributary	07	2	19	0.3	0.110	0.4	--	--
Historic Creek	04	1	1	0.2	0.150	0.2	--	--
Historic Creek	05	--	1	--	--	--	--	--
Historic Creek	06	1	2	0.5	0.480	0.5	--	--
Historic Creek	07	4	5	1.2	0.035	3.3	2	--
Wetland	03	4	4	0.3	0.200	0.5	--	--
Wetland	04	1	2	0.2	0.150	0.2	--	--
Wetland	05	4	4	0.5	0.130	1.2	1	--
Wetland	06	1	1	0.1	0.072	0.1	--	--
Wetland	07	1	1	0.2	0.190	0.2	--	--
Other	Totals	19	41				3	0

Notes:

-- = No detections/samples in Reach

^(a) Average is for samples with positive results only^(b) Shows the number of detected results that exceed screening criteria are listed on Table 5

Table 7a
 Statistical Summary of Metals in Sediment Samples for Remedial Investigation
 Eighteenmile Creek Area of Concern

Sample Location	Reach	Lead (mg/kg)						Exceeds Low Criteria ^(b)	Exceeds High Criteria ^(b)
		Number Detected	Number of Samples	Average ^(a)	Minimum Detected	Maximum Detected			
Creek	01	47	47	118	4	419	32	22	
Creek	02	127	127	1525	6	6760	121	120	
Creek	03	80	80	1574	4.5	5790	71	70	
Creek	04	22	22	449	47	2320	22	17	
Creek	05	83	83	784	6	7850	74	68	
Creek	06	62	62	593	76	4380	62	60	
Creek	07	101	101	635	11	2940	100	99	
Creek	09	20	20	425	33	2040	20	17	
Creek	10	125	125	969	11	25000	121	103	
Creek_E	10	13	13	235	63	807	13	12	
Creek	Totals	680	680				636	588	
Canal	Erie Canal	45	45	135	33	483	45	21	
Upstream	Upstream	3	3	49	9	103	2	--	
Tributary	04	1	1	20	20	20	--	--	
Tributary	07	21	21	251	5	823	12	8	
Historic Creek	04	1	1	193	193	193	1	1	
Historic Creek	05	1	1	31	31	31	1	--	
Historic Creek	06	2	2	396	359	433	2	2	
Historic Creek	07	5	5	236	57	400	5	4	
Wetland	03	4	4	380	310	533	4	4	
Wetland	04	2	2	148	125	170	2	2	
Wetland	05	4	4	357	265	473	4	4	
Wetland	06	1	1	299	299	299	1	1	
Wetland	07	1	1	339	339	339	1	1	
Other	Totals	43	43				21	19	

Notes:

-- = No detections/samples in Reach

^(a) Average is for samples with positive results only

^(b) Shows the number of detected results that exceed screening criteria are listed on Table 5

Table 7b

Statistical Summary of Metals in Sediment Samples for Remedial Investigation

Eighteenmile Creek Area of Concern

Arsenic (mg/kg)								
Sample Location	Reach	Number Detected	Number of Samples	Average ^(a)	Minimum Detected	Maximum Detected	Exceeds Low Criteria ^(b)	Exceeds High Criteria ^(b)
Creek	01	47	47	4.3	1.0	13	8	--
Creek	02	127	127	10.6	1.6	32	95	--
Creek	03	80	80	8.4	2.0	17	50	--
Creek	04	22	22	4.9	2.6	14	4	--
Creek	05	83	83	9.3	1.2	33	59	1
Creek	06	62	62	5.4	2.9	13	14	--
Creek	07	100	101	6.9	2.2	31	54	--
Creek	09	14	14	10.2	2.8	25	10	--
Creek	10	73	73	9.4	2.1	37	43	1
Creek_E	10	11	11	5.5	1.2	11	5	--
Creek	Totals	619	620				342	2
Canal	Erie Canal	34	34	5.7	1.8	20.0	6	--
Upstream	Upstream	3	3	4.9	3.3	7.7	1	--
Tributary	04	1	1	2.6	2.6	2.6	--	--
Tributary	07	21	21	4.8	1.0	8.0	6	--
Historic Creek	04	1	1	4.1	4.1	4.1	--	--
Historic Creek	05	1	1	3.2	3.2	3.2	--	--
Historic Creek	06	2	2	8.7	5.3	12.0	1	--
Historic Creek	07	5	5	6.3	3.6	11.0	3	--
Wetland	03	4	4	5.1	4.5	5.4	--	--
Wetland	04	2	2	4.0	3.8	4.2	--	--
Wetland	05	4	4	6.2	4.9	8.6	2	--
Wetland	06	1	1	6.8	6.8	6.8	1	--
Wetland	07	1	1	4.3	4.3	4.3	--	--
Other	Totals	43	43				7	0

Notes:

-- = No detections/samples in Reach

^(a) Average is for samples with positive results only^(b) Shows the number of detected results that exceed screening criteria are listed on Table 5

Table 7c

Statistical Summary of Metals in Sediment Samples for Remedial Investigation

Eighteenmile Creek Area of Concern

		Chromium (mg/kg)						
Sample Location	Reach	Number Detected	Number of Samples	Average ^(a)	Minimum Detected	Maximum Detected	Exceeds Low Criteria ^(b)	Exceeds High Criteria ^(b)
Creek	01	47	47	70	8	867	29	4
Creek	02	127	127	472	14	1950	121	93
Creek	03	80	80	470	12.0	2090	71	57
Creek	04	22	22	153	19	1090	20	6
Creek	05	83	83	237	14	1470	70	39
Creek	06	62	62	159	13	1380	61	18
Creek	07	101	101	156	13	703	100	60
Creek	09	14	14	48	9	196	8	1
Creek	10	73	73	62	5	1200	39	7
Creek_E	10	11	11	16	8	41	1	--
Creek	Totals	620	620				520	285
Canal	Erie Canal	34	34	32	6	91	21	--
Upstream	Upstream	3	3	13	9	18	--	--
Tributary	04	1	1	13	13	13	--	--
Tributary	07	21	21	61	8	201	10	4
Historic Creek	04	1	1	65	65	65	1	--
Historic Creek	05	1	1	14	14	14	--	--
Historic Creek	06	2	2	147	95	199	2	1
Historic Creek	07	5	5	63	26	109	5	--
Wetland	03	4	4	140	108	216	4	3
Wetland	04	2	2	49	36	62	2	--
Wetland	05	4	4	133	94	172	4	3
Wetland	06	1	1	72	72	72	1	--
Wetland	07	1	1	78	78	78	1	--
Other	Totals	43	43				20	7

Notes:

-- = No detections/samples in Reach

^(a) Average is for samples with positive results only^(b) Shows the number of detected results that exceed screening criteria are listed on Table 5

Table 7d

Statistical Summary of Metals in Sediment Samples for Remedial Investigation

Eighteenmile Creek Area of Concern

Copper (mg/kg)								
Sample Location	Reach	Number Detected	Number of Samples	Average ^(a)	Minimum Detected	Maximum Detected	Exceeds Low Criteria ^(b)	Exceeds High Criteria ^(b)
Creek	01	47	47	74	10	245	34	14
Creek	02	127	127	932	9	3790	122	119
Creek	03	80	80	921	5.9	3170	73	70
Creek	04	22	22	260	26	1230	22	16
Creek	05	83	83	395	5	3000	77	64
Creek	06	62	62	351	28	2710	62	51
Creek	07	101	101	551	18	1620	101	99
Creek	09	14	14	622	27	2640	14	10
Creek	10	73	73	1258	16	54900	73	43
Creek_E	10	11	11	107	32	361	11	3
Creek	Totals	620	620				589	489
Canal	Erie Canal	34	34	44	5	106	29	--
Upstream	Upstream	3	3	18	12	21	2	--
Tributary	04	1	1	10	10	10	--	--
Tributary	07	21	21	98	9	292	18	7
Historic Creek	04	1	1	153	153	153	1	1
Historic Creek	05	1	1	24	24	24	1	--
Historic Creek	06	2	2	256	210	301	2	2
Historic Creek	07	5	5	158	42	272	5	3
Wetland	03	4	4	251	210	347	4	4
Wetland	04	2	2	91	72	110	2	1
Wetland	05	4	4	237	182	301	4	4
Wetland	06	1	1	186	186	186	1	1
Wetland	07	1	1	275	275	275	1	1
Other	Totals	43	43				21	17

Notes:

-- = No detections/samples in Reach

^(a) Average is for samples with positive results only^(b) Shows the number of detected results that exceed screening criteria are listed on Table 5

Table 7e
 Statistical Summary of Metals in Sediment Samples for Remedial Investigation
 Eighteenmile Creek Area of Concern

		Zinc (mg/kg)						
Sample Location	Reach	Number Detected	Number of Samples	Average ^(a)	Minimum Detected	Maximum Detected	Exceeds Low Criteria ^(b)	Exceeds High Criteria ^(b)
Creek	01	46	46	347	67	1350	29	24
Creek	02	127	127	3403	57	16500	121	119
Creek	03	80	80	4427	47.0	20000	71	71
Creek	04	22	22	1470	183	8670	22	20
Creek	05	64	83	2068	60	24000	54	51
Creek	06	62	62	1236	82	9760	61	59
Creek	07	101	101	1190	76	5980	100	99
Creek	09	14	14	686	51	2280	11	10
Creek	10	73	73	1314	46	21400	57	43
Creek_E	10	11	11	641	66	5190	7	4
Creek	Totals	600	619				533	500
Canal	Erie Canal	34	34	243	19	899	26	9
Upstream	Upstream	3	3	107	44	170	1	--
Tributary	04	1	1	63	63	63	--	--
Tributary	07	21	21	536	39	1850	14	9
Historic Creek	04	1	1	892	892	892	1	1
Historic Creek	05	1	1	309	309	309	1	1
Historic Creek	06	2	2	919	557	1280	2	2
Historic Creek	07	5	5	527	159	1030	5	3
Wetland	03	4	4	1146	899	1710	4	4
Wetland	04	2	2	374	304	444	2	2
Wetland	05	4	4	931	709	1310	4	4
Wetland	06	1	1	543	543	543	1	1
Wetland	07	1	1	820	820	820	1	1
Other	Totals	43	43				21	19

Notes:

-- = No detections/samples in Reach

^(a) Average is for samples with positive results only

^(b) Shows the number of detected results that exceed screening criteria are listed on Table 5

Table 9

Statistical Summary of PCBs in Sediment Samples for Remedial Investigation

Eighteenmile Creek Area of Concern

Mercury (mg/kg)								
Sample Location	Reach	Number Detected	Number of Samples	Average ^(a)	Minimum Detected	Maximum Detected	Exceeds Low Criteria ^(b)	Exceeds High Criteria ^(b)
Creek	01	37	46	0.67	0.022	3.8	26	6
Creek	02	126	127	1.6	0.050	8.6	123	59
Creek	03	73	80	1.9	0.1	4.8	71	44
Creek	04	22	22	0.6	0.130	1.2	21	--
Creek	05	81	82	3.1	0.052	11.0	76	49
Creek	06	62	62	0.8	0.150	3.4	62	11
Creek	07	98	101	1.6	0.210	18.0	98	33
Creek	09	3	3	1.3	0.600	2.5	3	1
Creek	10	7	8	1.7	0.260	5	7	3
Creek_E	10	2	2	0.1	0.113	0.2	1	--
Creek	Totals	511	533				488	206
Canal	Erie Canal	10	10	0.3	0.118	1	8	--
Upstream	Upstream	--	--	--	--	--	--	--
Tributary	04	1	1	0.1	0.053	0.1	--	--
Tributary	07	13	21	0.1	0.058	0.3	6	--
Historic Creek	04	1	1	0.5	0.500	0.5	1	--
Historic Creek	05	--	1	--	--	--	--	--
Historic Creek	06	2	2	1.3	0.640	1.9	2	1
Historic Creek	07	5	5	0.8	0	2	5	1
Wetland	03	4	4	0.8	0.600	1.0	4	--
Wetland	04	2	2	0.7	0.710	0.8	2	--
Wetland	05	4	4	0.7	0.510	0.8	4	--
Wetland	06	1	1	2.5	2.500	2.5	1	1
Wetland	07	1	1	1.0	0.990	1.0	1	--
Other	Totals	34	43				20	3

Notes:

-- = No detections/samples in Reach

^(a) Average is for samples with positive results only^(b) Shows the number of detected results that exceed screening criteria are listed on Table 5

Table 12

Summary of Percent Detected and Exceeded Criteria in Sediment Samples for Remedial Investigation

Eighteenmile Creek Area of Concern

Sample Location	Reach	PCBs (Total Aroclors)			PAH			Lead		
		% Detect	% Exceeds	% Exceeds	% Detect	% Exceeds	% Exceeds	% Detect	% Exceeds	% Exceeds
			Low ^(b)	High ^(b)		Low ^(b)	High ^(b)		Low ^(b)	High ^(b)
Creek	01	59%	--	--	--	--	--	100%	68%	47%
Creek	02	90%	29%	--	97%	2%	--	100%	95%	94%
Creek	03	79%	43%	--	96%	6%	--	100%	89%	88%
Creek	04	86%	26%	--	100%	40%	7%	100%	100%	77%
Creek	05	48%	15%	--	99%	4%	--	100%	89%	82%
Creek	06	77%	19%	--	100%	4%	2%	100%	100%	97%
Creek	07	87%	70%	5%	100%	59%	5%	100%	99%	98%
Creek	09	88%	64%	4%	100%	20%	--	100%	100%	85%
Creek	10	83%	49%	8%	100%	38%	7%	100%	97%	82%
Creek_E	10	100%	8%	--	100%	17%	--	100%	100%	92%
Creek	Totals	79%	40%	2%	98%	16%	2%	100%	94%	86%
Canal	Erie Canal	94%	53%	8%	100%	25%	--	100%	100%	47%
Upstream	Upstream	--	--	--	100%	33%	--	100%	67%	--
Tributary	04	--	--	--	100%	--	--	100%	--	--
Tributary	07	11%	--	--	95%	10%	--	100%	57%	38%
Historic Creek	04	100%	--	--	--	--	--	100%	100%	100%
Historic Creek	05	--	--	--	100%	100%	--	100%	100%	--
Historic Creek	06	50%	--	--	100%	--	--	100%	100%	100%
Historic Creek	07	80%	50%	--	100%	100%	--	100%	100%	80%
Wetland	03	100%	--	--	100%	--	--	100%	100%	100%
Wetland	04	50%	--	--	100%	--	--	100%	100%	100%
Wetland	05	100%	25%	--	100%	--	--	100%	100%	100%
Wetland	06	100%	--	--	--	--	--	100%	100%	100%
Wetland	07	100%	--	--	100%	100%	--	100%	100%	100%
Other	Totals	46%	16%	--	97%	11%	--	100%	49%	44%

Notes:

-- = No detections or exceedances for the samples in Reach

^(a) Average is for samples with positive results only^(b) Shows the number of detected results that exceed screening criteria are listed on Table 5