WHAT IS THE EIGHTEENMILE CREEK AREA OF CONCERN (AOC) ?

Local, state and federal officials identified a section of Eighteenmile Creek as one of 42 "Areas of Concern" (AOC) in the Great Lakes Basin. Eighteenmile Creek received this designation because of poor water quality and contaminated sediments present throughout the watershed. Eighteenmile Creek's long history of use by major industries in the area, especially near the City of Lockport and Town of Newfane, has played a large role in the present condition of the creek.

WHAT IS THE EIGHTEENMILE CREEK REMEDIAL ACTION PLAN (RAP) ?

A RAP is an integrated, whole ecosystem approach to remediating impaired water bodies. The RAP first identifies use impairments, their causes, and contaminant sources, using existing studies and data. Next, existing cleanup and regulatory programs which apply to the water body are identified. A coordinated cleanup strategy is then developed to eliminate the use impairments. The NYS Department of Environmental Conservation produced the Stage 1/2 RAP in 1997 in an effort to restore the integrity of the creek's ecosystem.

WHAT IS THE EIGHTEENMILE CREEK REMEDIAL ADVISORY COMMITTEE (RAC) ?

The Eighteenmile Creek RAC is comprised of a group of local, state and federal stakeholders, representing industries, organizations and local communities with a vested interest in the health of Eighteenmile Creek. The RAC is responsible for implementing the RAP, monitoring restoration efforts, and assessing ongoing needs and conditions. After a brief hiatus, the RAC reconvened in 2005 and is currently making progress in moving the RAP forward.



FOR MORE INFORMATION Contact:

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EIGHTEENMILE CREEK AREA OF CONCERN ----





A COMPILATION OF SUCCESSES, IMPROVEMENTS & CURRENT CONDITIONS









REPORT CARD

The Eighteenmile Creek Area of Conce (AOC) Report Card was created by the Eighteenmile Creek Remedial Advisory Committee (RAC). The purpose of this Report Card is to give a brief overvie of the health, improvements and cur rent conditions of Eighteenmile Cree during 2017. The Eighteenmile Creek Watershed includes – the main branch Eighteenmile Creek, Gulf Creek Tributary, East Branch of Eighteenmile Cree (Red Creek), and augmented flow from the NYS Erie Barge Canal.

Scientific data and research that was re erenced during the development of this Report Card can be found at the Area Concern website:

WWW.EIGHTEENMILERAP.COM This Report Card offers six "indicators"

related to the management of the creek overall health. They are: 1) Water Qual 2) Contamination; 3) Fish & Wildlife; 4) Public Access & Recreation; 5) Remed Action Plan; and 6) Environmental Edu cation & Public Involvement.

Each indicator has been further divided into several "sub-categories" to assess how specific concerns are being addressed. Each sub-category has been assigned a letter grade based upon pa successes, current health conditions, a trends over the past few years. The last column identifies action steps or immed ate concerns to be addressed in order meet restoration targets for the Area of Concern. This Report Card will be updated ed annually.

BENEFICIAL USE IMP/	AIRMENTS	KE			
1) Fish & Wildlife Consumption - Impaired Delisting Targets → <i>Identified</i>					
2) Degradation of Benthos- I Delisting Targets → Id		KECKEA HUN			
3) Dredging Restrictions ₋Im Delisting Targets → <i>Id</i>					
4) Animal Reproductive Issues - Impaired Delisting Targets → <i>Identified</i>					
5) Fish & Wildlife Populations - Impaired Delisting targets → <i>Identified</i>					
TRENDS	GRADING				

Conditions Improving

Conditions Unchanged

Conditions Worsening

a of Concern		CATEGORIES	GRADE	SUCCESSES & IMPROVEMENTS	CURRENT CONDITIONS
ated by the al Advisory oose of this ief overview ts and cur- nmile Creek nile Creek ain branch of	he bry this view cur- reek ch of u- eek om	Overall Water Quality	D	 Agricultural Environmental Management Program has been deployed to document and prioritize water quality impairments. The City of Lockport has completed combined sewer overflow (CSO) inspection checks and reports them to the DEC. Actions are also taken to address issues with CSOs in the city. 	 The impact AOC is a Class B/C stream indicating that the primary use is contact recreation and fishing. NYSDEC monitors water quality through the Rotating Intensive Basin Study (RIBS) program and State Pollutant Discharge Elimination System (SPDES) program. PCBs, heavy metals are suspended in the water column that exceed water quality standards that discharge into Lake Ontario.
eek Tribu- nmile Creek d flow from that was ref-		Quality of Storm Water	С	• City of Lockport completed a project that sep- arates storm water from the sanitary sewer on High Street.	 Combined Sewer Overflows still have the potential to discharge into Eighteenmile Creek and the Barge Canal. During storm events, degraded water quality negatively impacts Olcott Beach along Lake Ontario, causing beach closures.
nent of this the Area of RAP.COM indicators"	CONT	Spills, Discharges & Leaching of Contaminants	С	 Regulatory programs and monitoring by NYSDEC help reduce inputs to the creek. 14 of 20 inactive hazardous waste sites have been sealed or remediated. 	• 5 Inactive Hazardous Waste Sites in the watershed still have the potential to negatively impact the AOC.
of the creek's Vater Quality; Wildlife; 4) 5) Remedial nental Edu- her divided	CONTAMINATION	Contaminated Sediment	D	 EPA has approved a Record of Decision for OU2 and OU4, contractors are working on a remedial design and construction is expected to begin in 1-3 years for both projects. EPA has started their sampling investigation of OU3 and is looking to address several data gaps during the summer of 2018 and 2019. 	 Sediments in the AOC exceed NYS standards for a variety of contaminants, including PCBs, pesticides, lead, etc. Contaminated sediments within the watershed continue to influence the overall health of the AOC. A number of historic power generation structures and oxbow lakes present in the creek act as "sinks" for contaminated sediment to accumulate.
to assess eing ad- has been ed upon past onditions, and rs. The last s or immedi- d in order to he Area of will be updat-	FISH & WILDLIFE	Contaminant Levels in Fish & Wildlife	D	 Fish tissue results obtained through a study in 2012 are the first data set collected for a portion of Eighteenmile Creek upstream of Newfane Dam, the results indicate impacts to fish. EPA Region 2 is reviewing the Quality Assurance Protection plan for the mink prey survey. 	 Fish consumption advisories of "Eat no fish" exist for the entire creek, including below Burt Dam, the AOC. Beneficial uses affected by elevated levels of PCBs in fish continue to be impaired at Eighteenmile Creek.
		Fish & Wildlife Diversity & Populations	В	• Discussions have started with USGS to complete a fish community survey to update the efforts from 2007.	 Large concentrations of Coho and Chinook salmon and brown trout migrate from Lake Ontario each fall. The area also supports the natural reproduction of bass, northern pike and black crappie. Resident mammal populations are likely impaired due to contam- ination from their diet of fish.
AIRMENTS on - Impaired	PUBLIC ACCESS RECREATION RECREATION RECREATION	Public Access to the Creek & Adjacent Areas	A	• Access to Eighteenmile Creek via Fisherman's Park and Olcott Harbor continues to be main- tained by the Town of Newfane.	 The AOC is accessible for anglers and general recreation activities from Fisherman's Park and Olcott Harbor. A majority of the creek is secluded by a steep ravine.
entified npaired entified		Aesthetics of the Creek & Adjacent Riparian Areas	В	• The Town of Newfane Marina Director has been active in keeping the AOC clean of trash and a new fishing line recycling program has been implemented.	 The Eighteenmile Creek AOC Corridor is pristine to the naked eye, displaying no visual Beneficial Use Impairments. Some abandoned industrial sites are adjacent to the creek area.
paired entified es - Impaired entified		RAP Management	В	• In 2017 NCSWCD began a new 5 year grant which includes: continued coordination of all RAP initiatives, development of new projects, and education & outreach activities.	 New York AOCs have begun to collaborate as a group to identify common challenges and goals to AOC recovery and continue RAP Coordination through 2020. Eighteenmile Creek is a long term Area of Concern due to it's complexity. A management action list is to be completed in 2019
s - Impaired entified	ACTION	RAC Management	В	• The RAC continues to address various aspects of the Remedial Action Plan and has provided input on Federal and State Superfund designa- tion for the creek.	 The RAC is comprised of a diverse group of members and representatives from different interest areas. The RAC meets to discuss various aspects of the RAP and to explore new opportunities to de-list the AOC.
GRADING A Excellent B Good C Fair D Poor F Failure	ENVIRONMENTAL EDUCATION	Public Awareness	A	 Superfund remediation projects have brought the creek to the forefront of public media. A number of student classes and trips visit the AOC to learn about critical AOC issues. 	 Despite a fish consumption advisory, the AOC is visited by 10,000+ anglers annually. Every year the AOC is utilized as an "outside classroom" for elementary, secondary and college level classes.
		Watershed Stewardship	В	• 146 students from Newfane High School, Ni- agara Orleans BOCES, and Lockport High School participated in the "GREEN" Program.	 There is an increasing but still limited amount of participation from the public related to the AOC. Superfund activity has increased public participation/awareness.

TREND	STEPS NEEDED FOR PROBLEM RESOLUTION
1	 Contaminated sediments within the watershed must be remediated. Failures to waste water systems in Lockport and Newfane must be identified and addressed. Unknown sources of agricultural runoff must be identified. Additional polluters to the Eighteenmile Creek watershed should be identified
	 Remaining Combined Sewer Overflows must be eliminated. Continue to work with various partners to determine the sources which negatively impact Olcott Beach and Lake Ontario.
1	 Continued progress from the Federal Superfund program to identify additional polluters within the watershed. Continue to remediate Inactive Hazardous Waste Sites and other sources of contamination.
1	 Utilize Federal Superfund program to address the current sediment contamination source in Lockport. Remediate all upstream sources of contamination, including the Eighteenmile Creek Corridor Site and Old Upper Mountain Road Site. Continue to identify new funding sources for post remediation monitoring within the AOC.
†	 Remediate upstream sources and contaminated sediments. Continued fish monitoring throughout the remediation process to verify effectiveness and trends. Determine if bioaccumulation of contaminants is possible for any other fish or wildlife in the watershed.
Î	 Continue to support Olcott Pen Rearing Project. NYSDEC should continue its fish stocking program. Contaminated sediments affecting fish & wildlife require special attention. A mink population/contaminant study planned for 2019.
\$	• Investigate options for public access improvements to the creek in the City and Town of Lockport, NY.
Î	 Continue with annual AOC "Clean-Sweep" events. Educate recreational users and encourage them to "Pitch-In" and promote a healthy creek ecosystem.
	 Regular Status Reports and updates should continue to be completed. Focus on monitoring needs and protocols to effectively assess progress post remediation. Continue oversight of all AOC activities and projects.
+	 Focus on monitoring needs and protocols to effectively assess progress post remediation. Finalize BUI 3 and BUI 5 removal criteria Develop a management action list to act as project checklist
	• Continue to engage the public utilizing educational tools like the annual report card, various education events, inter- net mapping database, AOC website, newsletters, Face- book, and press releases.
1	 Continue GREEN program with Lockport GMCH Keep youth active with annual AOC Clean-Sweep and other educational events.