



Chateaugay Lake Foundation

P2024-0090

May 16, 2024

Presentation Overview

- Jurisdiction
- Conclusions of Law
- Project Location
- Management History in Chateaugay Lake
- Proposed Project
- Public Comment & Review by Others
- Staff Recommendation
- Q & A

Jurisdiction

9 NYCRR Section 578.3(n)(2)(i)

- Regulated Wetland Activity
 - Application of Herbicides in Wetlands

Jurisdiction

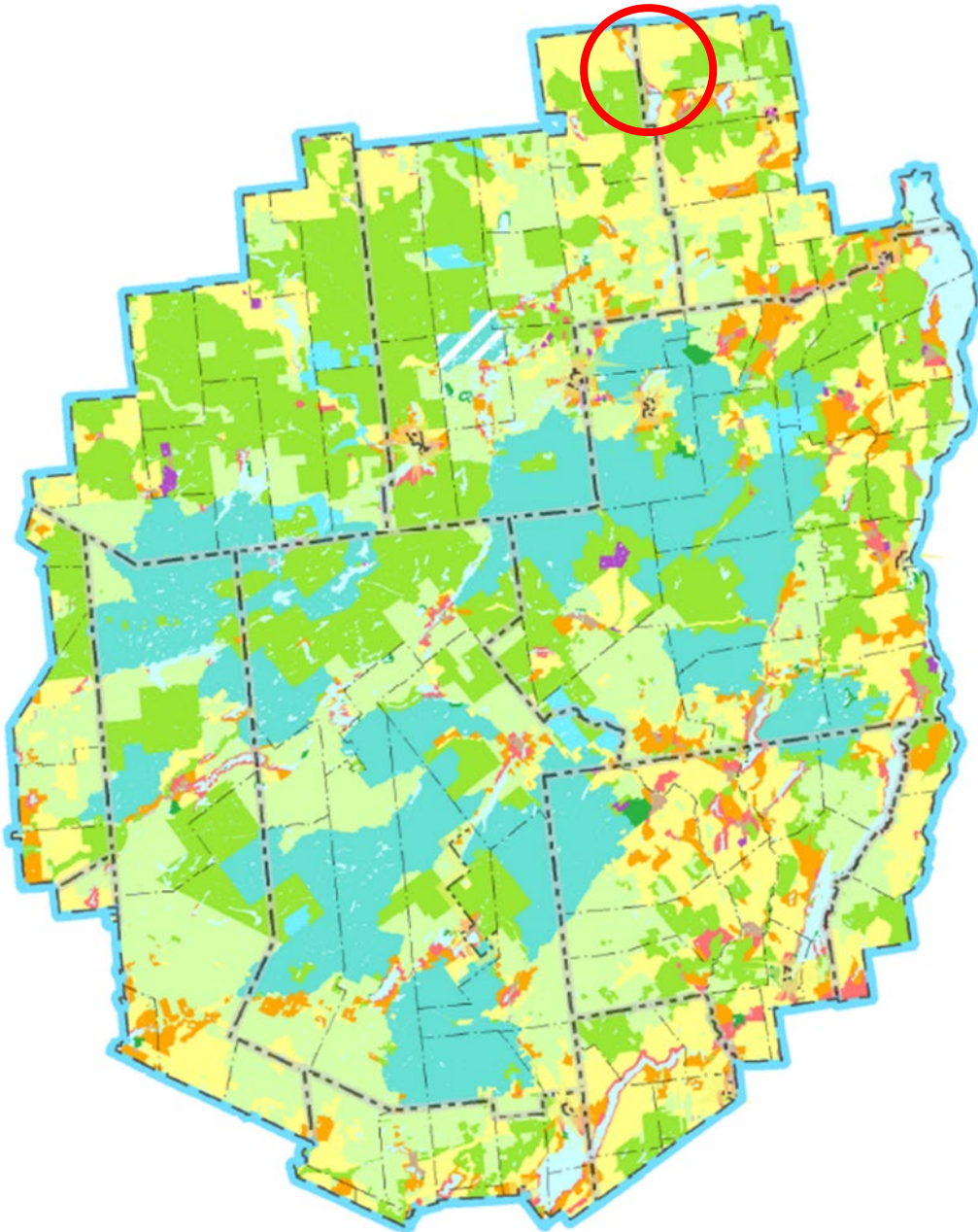
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- Regulated Wetland Activity
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Conclusions of Law

- a. that the project authorized as conditioned herein will be consistent with the Adirondack Park land use and development plan; and
- b. that the project authorized as conditioned herein will not have an undue adverse impact upon the natural, scenic, aesthetic, ecological, wildlife, historic, recreational or open space resources of the Park, taking into account the economic and social or other benefits to be derived from the activity; and
- c. the economic, social and other benefits to be derived from the activity proposed and as conditioned herein compel a departure from the guidelines of 9 NYCRR Part 578.10(a)(1), in order to secure the natural benefits of wetlands associated with the project, consistent with the general welfare and beneficial economic, social, and agricultural development of the state

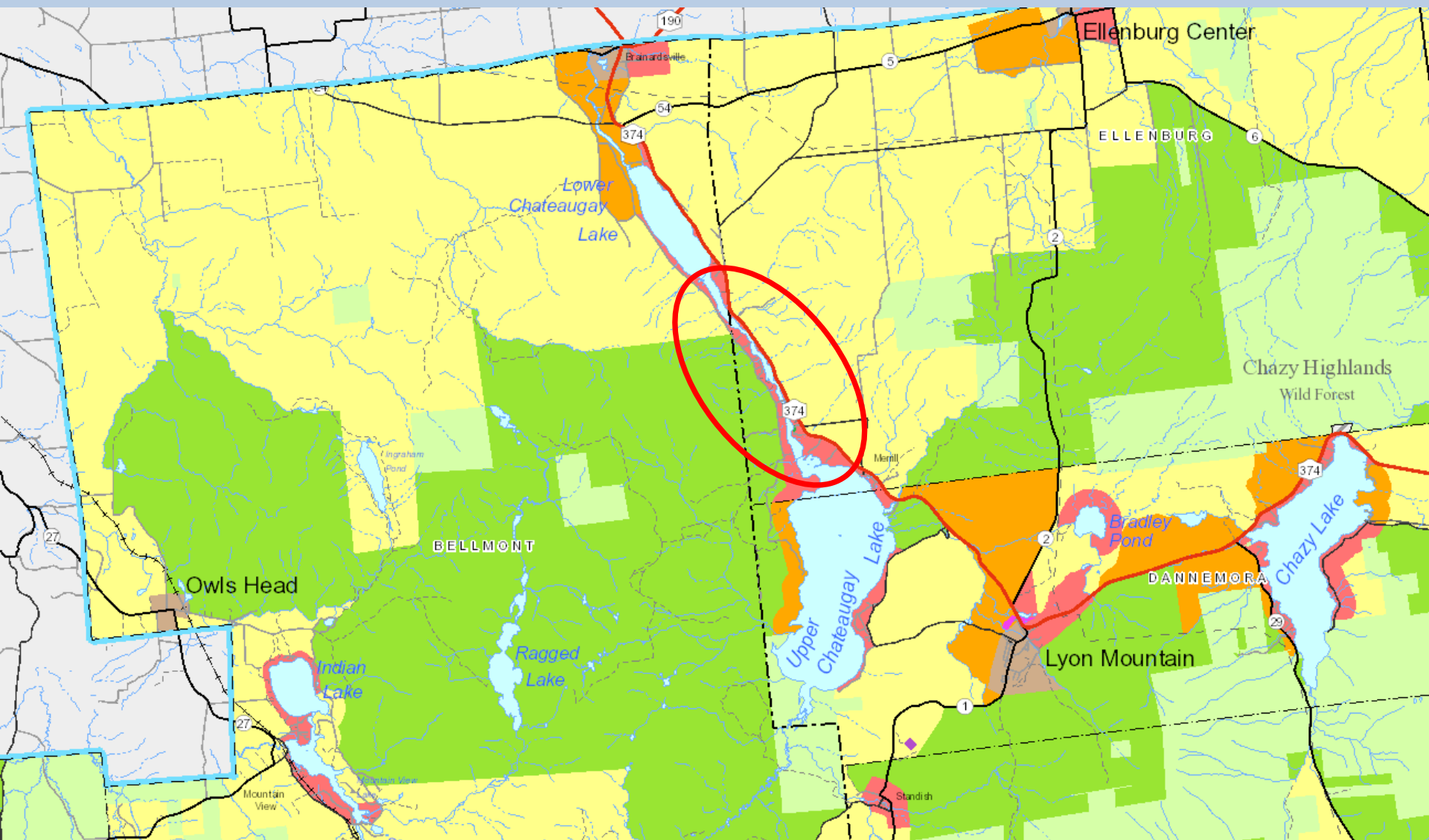
Project Location

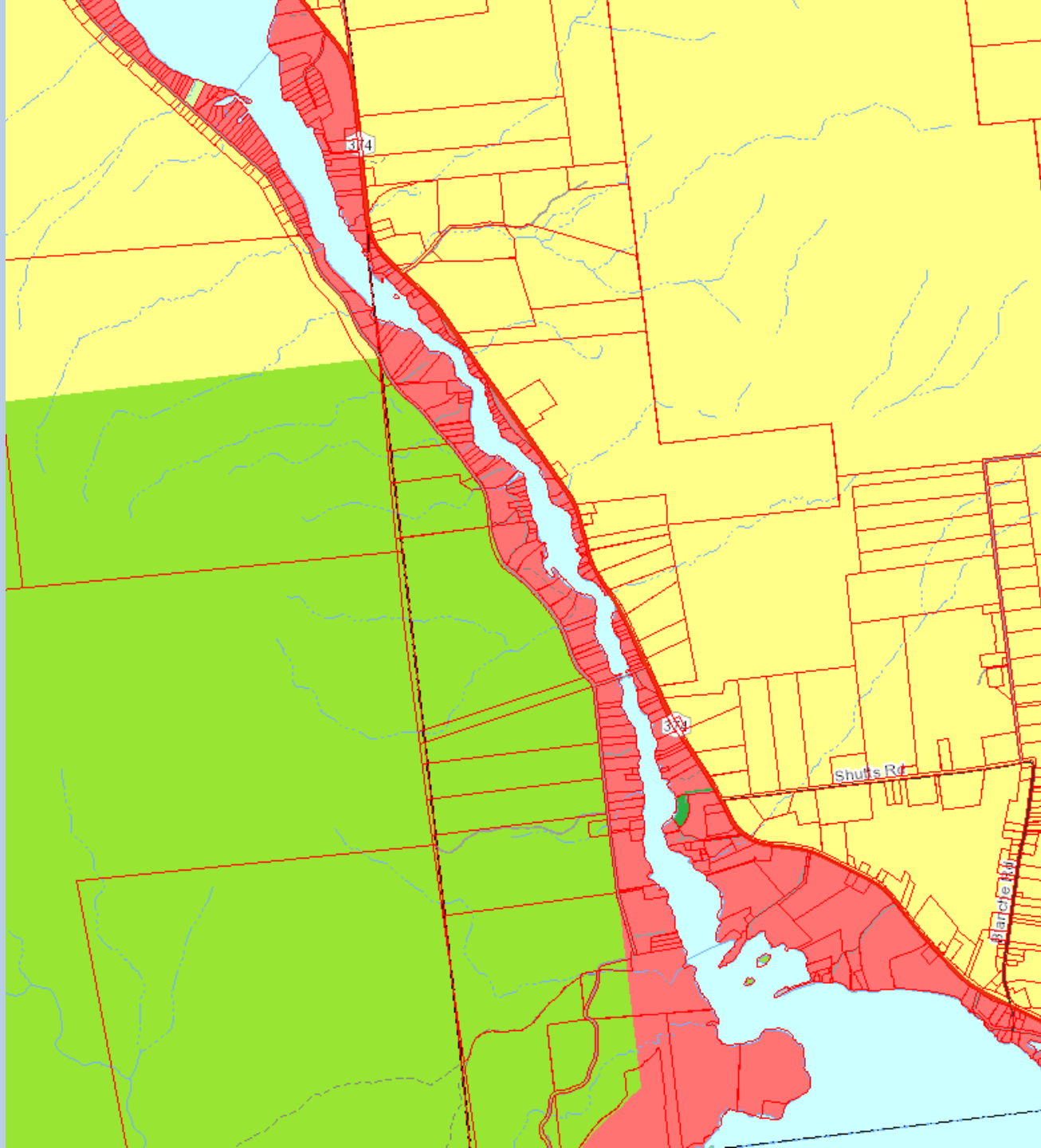


Project Location

Towns of Ellenburg and Belmont

Clinton and Franklin Counties







8. Narrows Sandbar
Eurasian Watermilfoil Supplemental

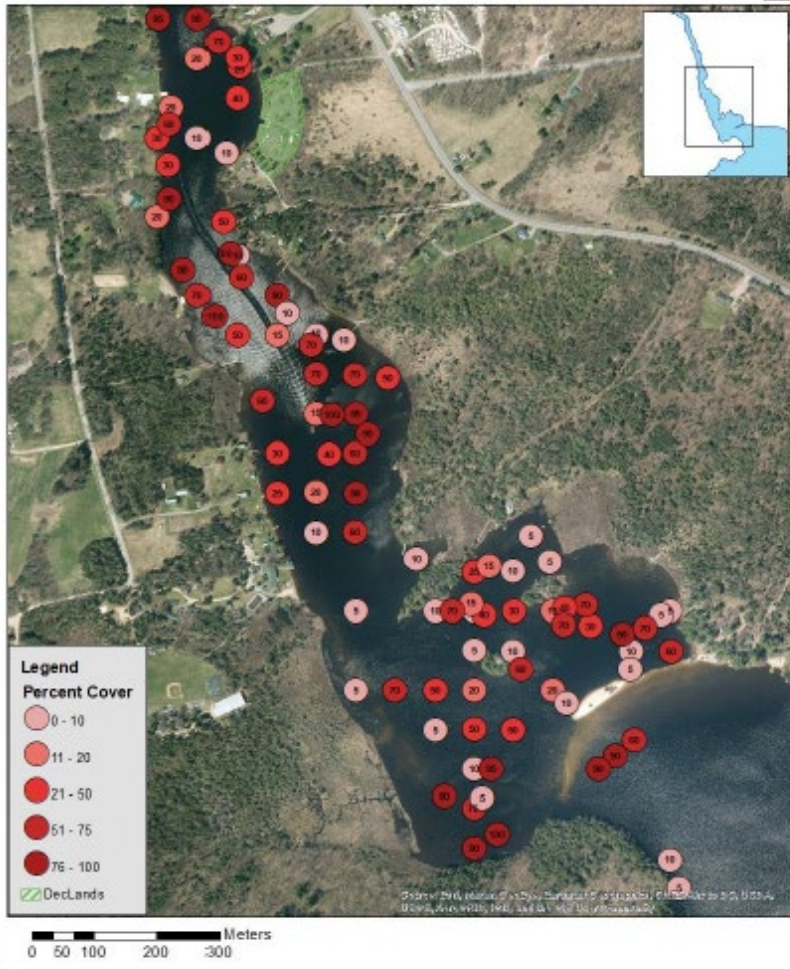


Figure 14. Eurasian watermilfoil distribution and percent cover in the southern section of the Narrows.

7. Narrows South of Bridge
Eurasian Watermilfoil Supplemental

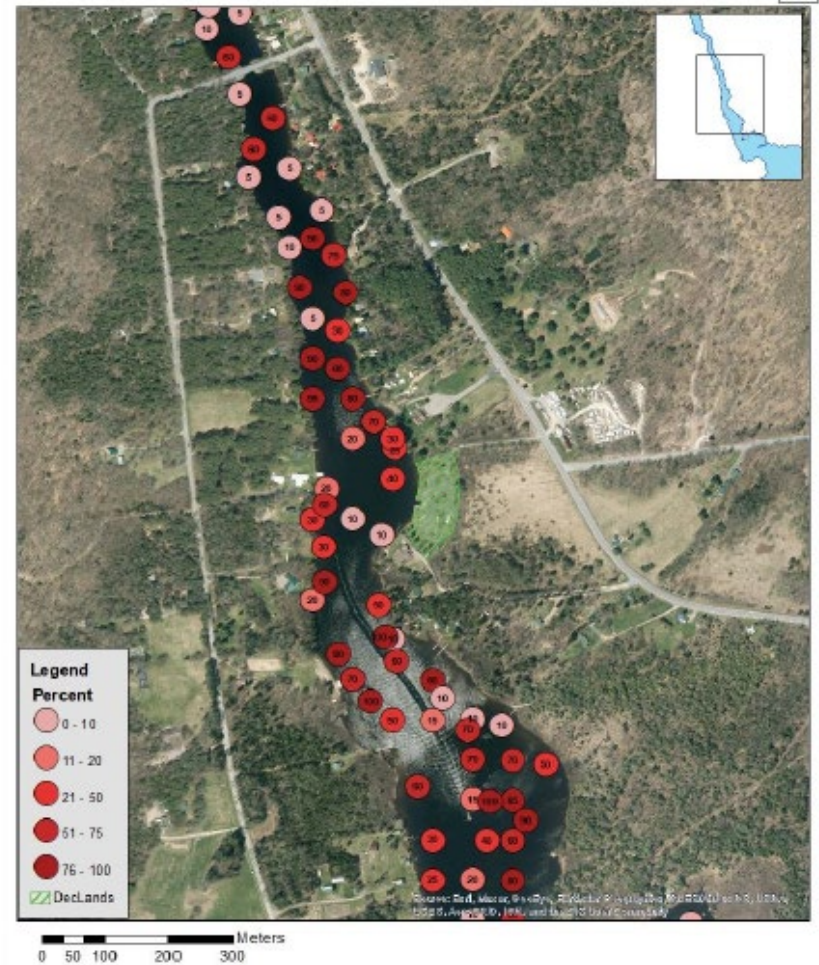
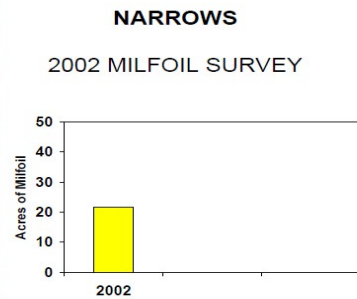
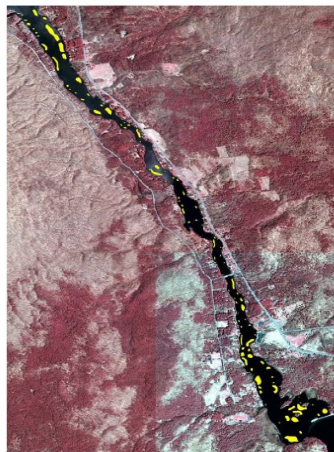


Figure 15. Eurasian watermilfoil distribution and percent cover in the Boat Launch area.

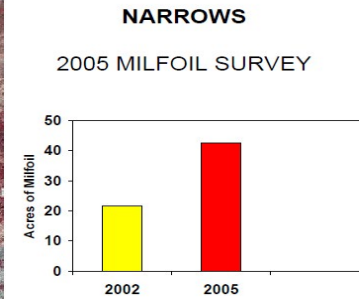
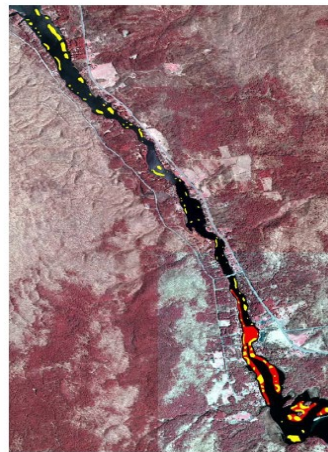
EWM Management in Chateaugay Lake

Timeline

- EWM Identified in 1979 plant survey
- Surveys in 2002, 2005 & 2006 support management interests

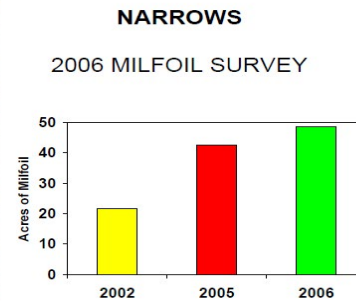
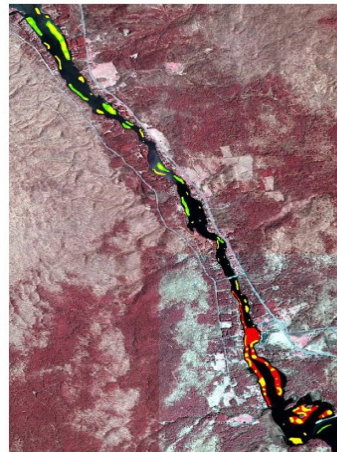


Data Source: CedarEden, LLC



Data Source: Chateaugay Lakes Association

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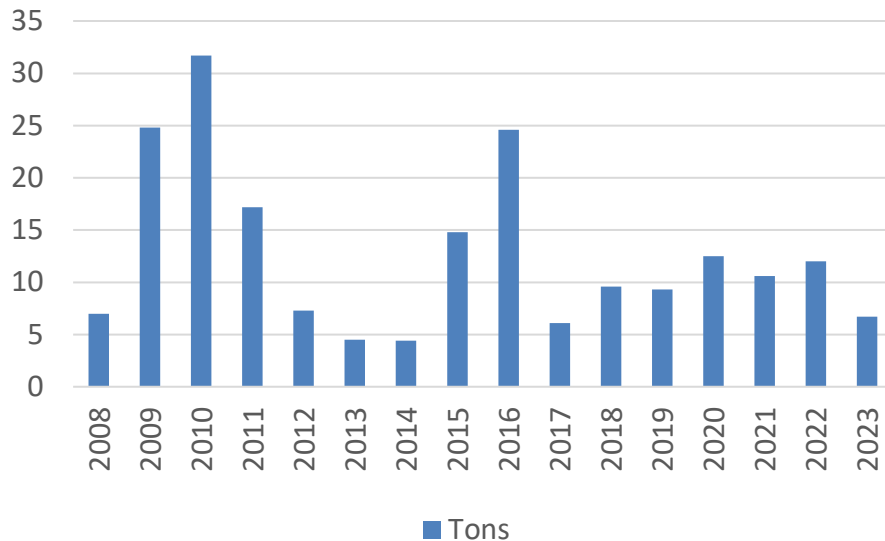
Data Source: Adirondack Watershed Institute

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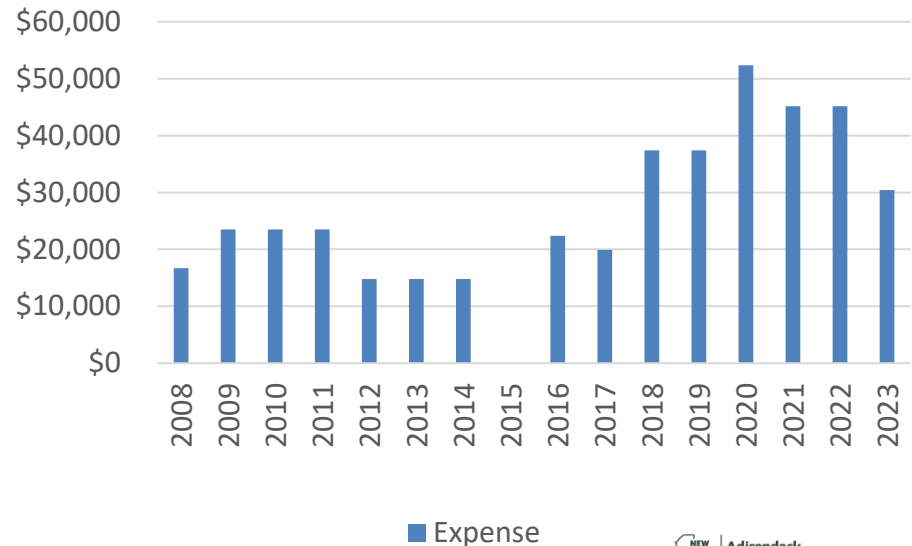
Timeline

- 2007: Chateaugay Lake Foundation founded, began raising funds for management
- 2008: Milfoil Management Plan Developed (PSC AWI)
- 2008 – Present → Management
Benthic Mats, Hand Harvesting, DASH (General Permit 2016-101)

Tons EWM Harvested



Annual Expense



MILFOIL REMOVAL BY WORK SITE

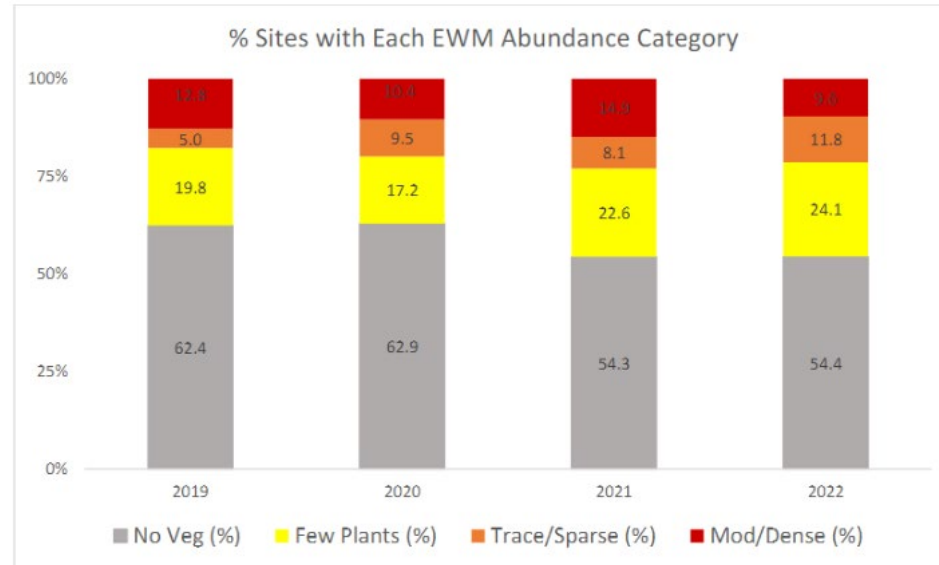
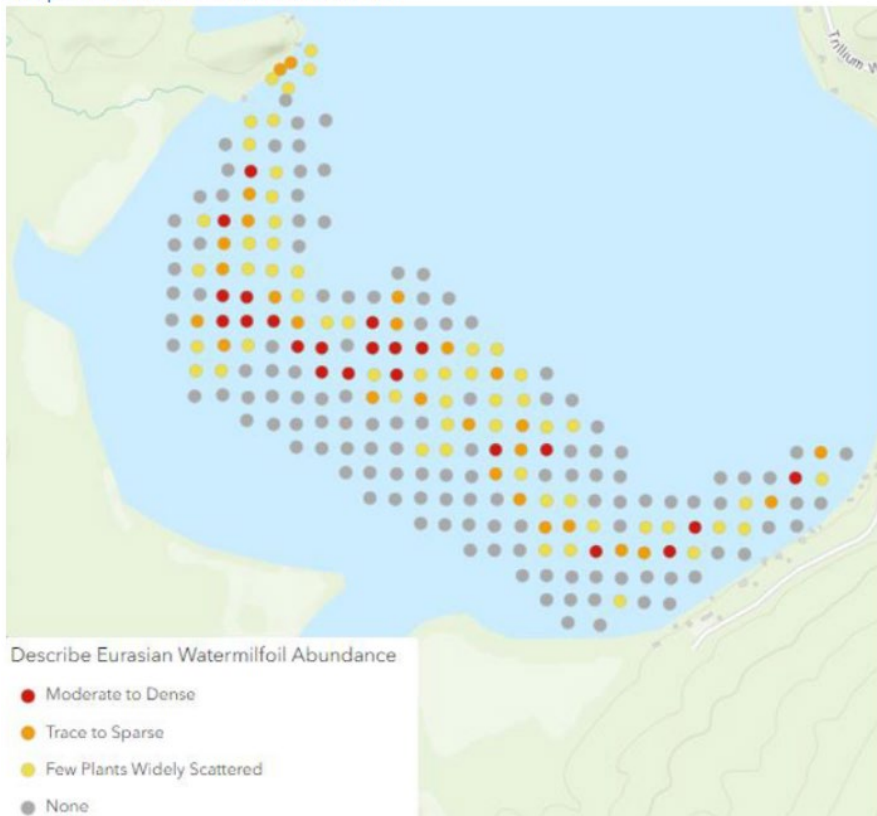
Tons Removed, 2008-2022

Tons of Milfoil Removed	Boat Launch (7 acres)	Sand Bar (21 acres)	Lower Lake Inlet (20 acres)	Narrows South of BL (18 acres)	Narrows North of BL to Bridge (4 acres)	Narrows North of Bridge (29 acres)	Indian Point (2 acres)	Upper SE Shoreline	Total Harvested (101 acres)	Combined Totals by Year
2008, AWI	7.0	0	0	0	0	0	0		7.0	7.0
2009, AWI	3.8	20.6	0.4	0	0	0	0		24.8	24.8
2010, AWI	6.8	2.0	0	0	0	0	0		8.8	
2010, AIM	0	5.8	0	17.1	0	0	0		22.9	31.7
2011, AWI	0	0	0	0	0	0	0		0	
2011, AIM	2.4	5.5	0	7.0	2.3	0	0		17.2	17.2
2012, AIM	1.6	3.8	0	1.3	0.6	0	0		7.3	7.3
2013, AIM	0.9	2.5	0	0.8	0	0	0		4.3	
2013, AWI	0.0	0.3	0	0.0	0	0	0		0.3	4.5
2014, AIM	1.2	2.7	0	0.6	0	0	0		4.4	4.4
2015, AWI	1.0	2.6	0	3.0	1.5	6.7	0		14.8	14.8
2016, AIM	2.6	0.0	0	0.0	0	0	1.3		3.9	
2016, AWI	1.9	3.1	0	5.8	1.0	8.9	0.0		20.7	24.6
2017, AIM	3.1	1.3	0	0.6	0	0	1.1		6.1	6.1
2018, IS DiveCo	1.3	1.3	4.5	0.2	0	0	2.2		9.6	9.6
2019, IS DiveCo	1.3	1.6	3.7	0	0	0	1.4		8.0	
2019, Aqualogic	0	0	0	0	0	0	1.3		1.3	9.3
2020, IS Dive Cc	1.3	3.7	4.3	2.0	0	0	1.2		12.5	12.5
2021, IS Dive Cc	2.3	1.0	2.7	0.0	0	0	4.7		10.6	10.6
2022, IS Dive Cc	3.4	0.5	3.7				2.4	2.0	12.0	12.0
2023, IS Dive Co	2.1		1.2				1.8	1.7	6.7	6.7
Total Tons	43.9	58.3	20.6	38.4	5.4	15.6	17.4	3.7	203.1	203.1
Tons removed per acre	6.3	2.8	1.0	2.1	1.4	0.5	8.7		2.0	2.0

Timeline

- 2019: Joined APIPP’s Lake Management Tracker Program
 - Volunteer Citizen Science
 - Documenting Trends through monitoring

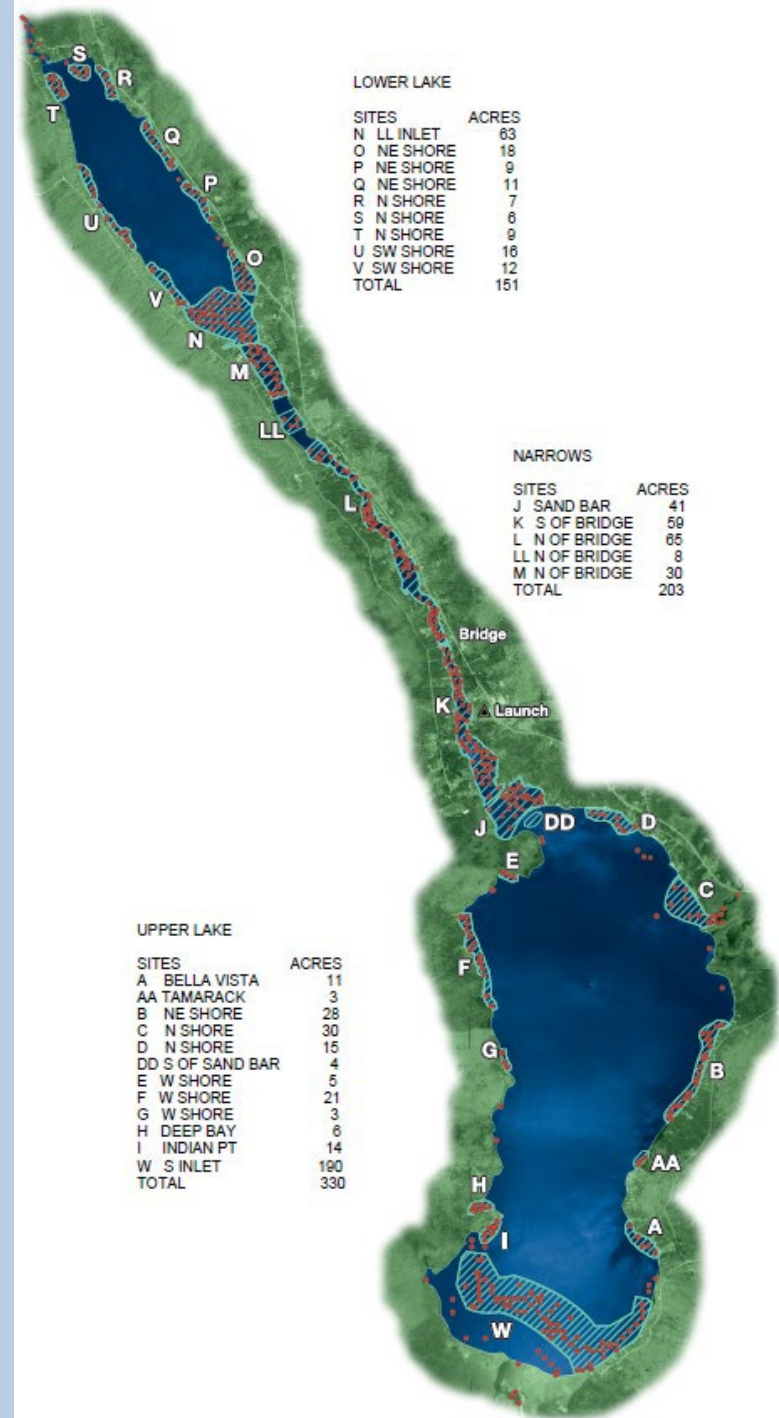
Maps from 2022 data collection



Timeline

- 2024: Adaptive Management Plan
 - Clear goals, objectives and actions
 - Prevention, Monitoring, Management
 - Lake wide Management Timeline, adaptable to ongoing findings of monitoring efforts

Areas	2024	2025	2026	2027	2028
Narrows					
Sandbar (J), South of bridge (K), South of Sandbar (DD)	Chemical treatment with ProcellaCOR (\$69K); Post-treatment survey (\$5K)	Full lake survey (\$12 K)	Lake Management Tracker Hand harvesting (1 week, \$8K) Possible chemical retreatment of boat launch within area K (\$25K)	Lake Management Tracker Hand harvesting (2 week, \$16K)	Action based on 2026/2027 data
North of Bridge (L, LL, M)			Chemical Management (\$25K)	Lake Management Tracker	Lake Management Tracker Hand harvesting (1 wk, \$8K)



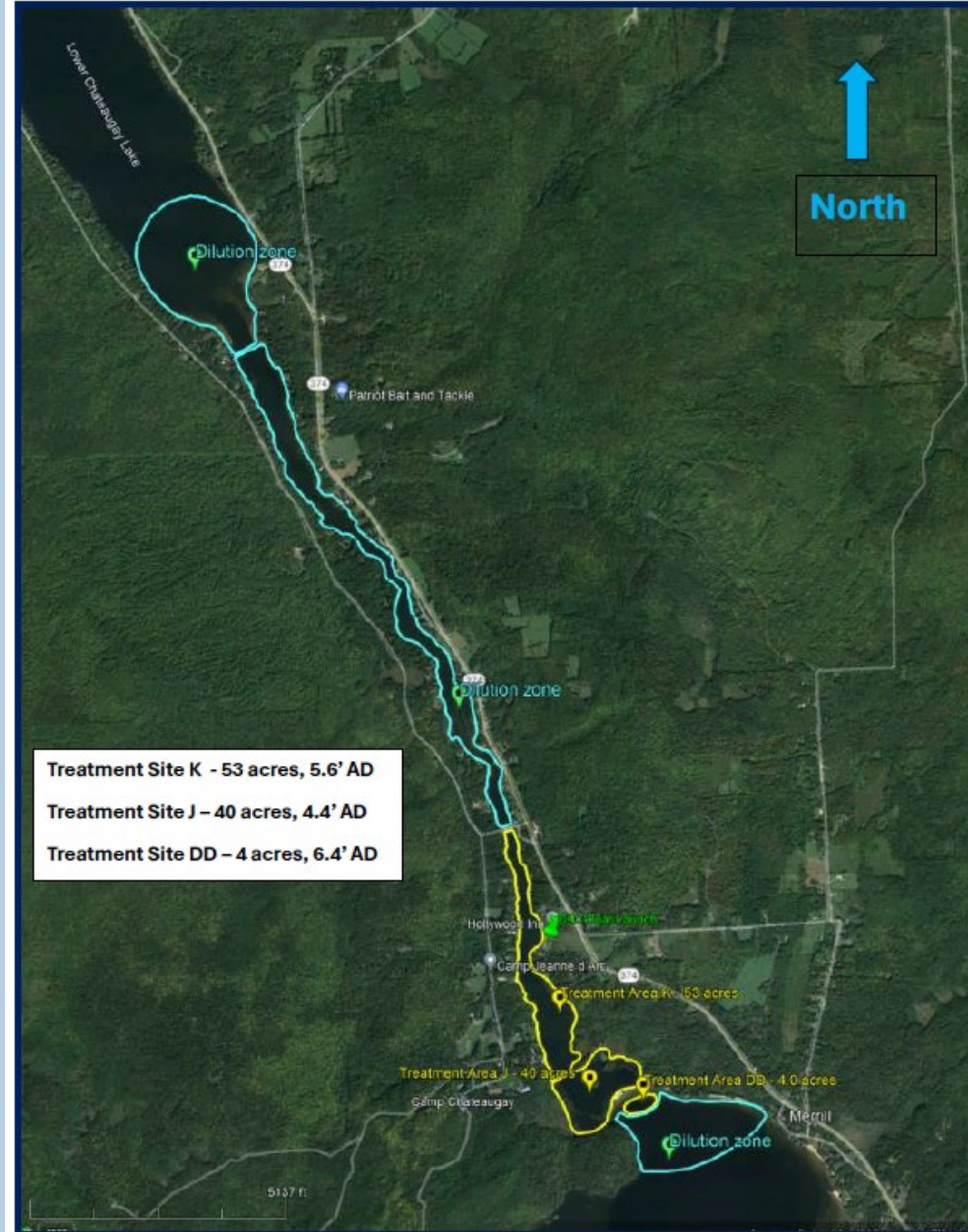
Proposed Project

Treatment

Treat 97 acres within three treatment areas in the Chateaugay Lake Narrows with ProcellaCor EC.

Water Quality Measurements Collected at Treatment Sites

- Secchi Depth (Measure of Photic Zone)
- Temperature



Residual Concentration Monitoring

Post Treatment Samples collected until herbicide concentration is below 1 ppb in all samples.

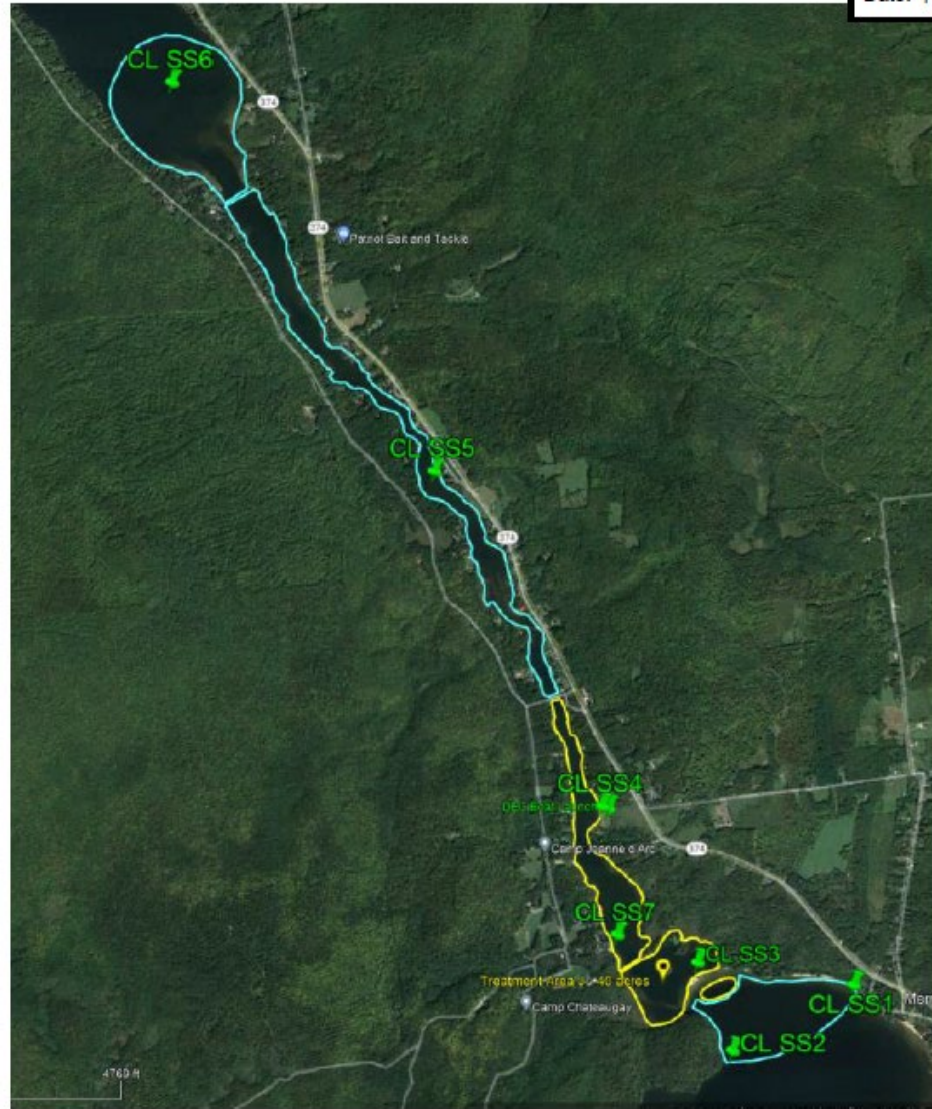
6 to 8 Hours

1 Day

7 Days

7-14 Days thereafter

Chateaugay Lake – 2024 ProcettaCOR EC Sampling Plan



Post Treatment

- Qualitative survey about 6 weeks post-treatment
- Quantitative Aquatic Plant Survey (August/September)
- Post Treatment Status Report (Due to APA Dec. 1)
 - Quantitative Aquatic Survey Results
 - Narrative assessment of lake health and discussion of effects on plant communities

Monitoring

- 1) Prevention efforts and outreach - Keep track of the outreach that the CLF does to inform supporters, shore owners and visitors about clean, drain, dry approaches. Also monitor AWI boat steward data.
- 2) AIS monitoring – Keep track of the early detection Lake Protector Survey efforts and the results of the Lake Management Tracker surveys in the different treatment zones.
- 3) Management –Keep track of the effort, costs and results of the integrated management approach to controlling EWM.

Milfoil Species in Narrows

Plant Species	Native	Protected
Eurasian watermilfoil <i>Myriophyllum spicatum</i>	No (Target Species)	No
Slender watermilfoil <i>Myriophyllum tenellum</i>	Yes	No



Susceptibility: Non-Target Species in Narrows

Plant Species	Susceptibility
Coontail	Low- Moderate
White waterlily	Moderate
Water stargrass	Low - Moderate
Watershield	Moderate - High
Yellow waterlily	Low – Moderate
All others (N= 33)	Low

Public Comment and Review by Others

Public Comment

- Public Notice
 - Shoreline owners notified when application was received, also when application was completed
(574 letters x 2 = 1148 Notifications)
 - Environmental Notice Bulletin: Comment Period Ended May 16, 2024
 - 132 comment letters received (representing 136 people)
 - Concerns → 9 Letters (7 people)
 - Supportive → 123 Letters (129 people)

Public Comment - Concerns

- Proposed herbicide treatment not extensive enough
- General opposition to chemical treatment
- General opposition to management costs
- Currents
- Non-target impacts

Public Comment - Supportive

- General Support for CLF
- Hand Harvesting on its own is not enough
- Fear of losing recreation opportunities
- Hand harvest expenses not sustainable

Review by Others

- NYS Department of Environmental Conservation
 - Issued Pesticides Permit AV-5-24-14 on April 19, 2024

Draft Permit Conditions

- Undertake project as proposed
- Adherence to Clean Drain Dry Standards for all equipment used
- Post-treatment concentration monitoring report
- Post treatment aquatic plant survey

Conclusions of Law

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Staff Recommendation: Approve with Conditions