# Webster Lake Aquatic Vegetation Management Plan

## 2024 Update

Kosciusko County, Indiana



Prepared for:

## The Webster Lake Conservation Association P.O. Box 79 North Webster, Indiana 46555

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#### **Executive Summary**

The following report summarizes invasive plant management activities on Webster Lake implemented through the IDNR's Lake and River Enhancement (LARE) program. Webster Lake is located in Kosciusko County, Indiana. It has 653 acres surface acres with a maximum depth of 52 feet and an average depth of 12.5 feet. This report outlines strategies to manage the invasive plants of Eurasian watermilfoil (EWM), starry stonewort (SSW,) and curly-leaf pondweed (CLP) in Webster Lake.

Webster Lake has a long history of invasive plant management. EWM and CLP have been present in the lake for decades. Webster Lake has many large, shallow, muddy flats that allow plants to proliferate over a large percentage of the lake's surface area. Webster Lake also has a watershed that is large compared to other Indiana lakes, being 31,459 acres. This creates a high nutrient environment in the lake, with plenty of available plant habitat. These factors lend themselves to dense stands of aquatic plants and severe infestations of invasive aquatic plants. It is estimated that total EWM acreage in Webster Lake has been as high as 255 acres or about 38 percent of the total lake acreage (based on the 2001 AVMP). EWM coverage and density cause significant lake use impairment each spring, which is a major challenge for lake residents.

The Webster Lake Conservation Association has actively managed invasive plants on an annual basis, spending significant time and resources to ensure reasonable lake use for residents. EWM has been the main target for management efforts, with annual treatment acreages generally ranging from 25 to 175 acres annually. EWM infestation has been so severe that whole-lake fluridone treatments have been implimented at least 3 times in the past, with fluridone treatments being used in 1999, 2002, and 2010. Since 2010, spot treatments for EWM have been used annually, with the 2, 4-D being the main product used for EWM control through 2020.

A newer EWM control product called ProcellaCOR was used for the the first time on Webster Lake in 2021. ProcellaCOR is more expensive thatn 2, 4-D, yet it often provides more complete and longer lasting control for EWM. Because of the expense and limited funds, ProcellaCOR has been used since 2020 in some areas, with 2, 4-D also being used to enable the lake association to treat all areas of EWM annually with the available funds.

Visual surveys were completed on both April 2, 2024 and April 15, 2024. These surveys prioritized 50.0 acres for early season treatments targeting primarily CLP. Treatment of these 50.0 acres took place on April 24, 2024 being funded by the lake association and LARE. These early season treatments provide very good CLP control and have the added benefit of supressing EWM growth. They are an important part of the overall invasive plant management strategy at Webster Lake.

Another visual survey was conducted on May 8, 2024 to identify all areas of EWM not controlled by the previous early season treatments. GPS waypoints taken on May 8, 2024 were combined with waypoints taken in the previous two surveys to develop a comprehensive EWM distribution map for the whole lake. A total of 112.4 acres of EWM beds were mapped. These 112.4 acres of EWM were treated selectively on May 20, 2024. ProcellaCOR herbicide was used to treat 27.5 acres of EWM while the remaining 84.9 acres were treated with 2, 4-D.



On May 20, Aquatic Weed Control discoved one area of SSW infestation along the west shore of Webster Lake. Waypoints and pictures of the SSW were submitted to the IDNR. The state of Indiana funded the treatement of SSW with funds from the Great Lakes Restoration Initiative (GLRI). 1.0 acre of SSW was treated on Webster Lake through the GLRI on both June 20, 2024 and September 3, 2024. GLRI is not expected to fund any SSW treatments on Webster Lake in 2025.

A Tier II survey was conducted on Webster Lake on August 21, 2024. EWM abundance after treatement was very low, with EWM being collected at 3 of the 90 sample locations. Seven species of native plants were found during the survey, and native plants were found at 71 of the 90 sample locations for a native coverage of 78.8% of all sites. Native species diversity was 0.62 in 2024 which might be considered moderate to a bit low when compared with other area lakes. The mean number of native species per site found was 1.1. It would appear the native plant community in Webster Lake is stable, with 2024 metrics being much in line with historical plant survey data.

Aquatic Weed Control recommends treating all EWM agressively in 2025 as the top priority. Aquatic Weed Control recomends a whole lake fluridone treatment as the best management practice to address the severe EWM infestation in Webster Lake, believing it to be the lowest risk, most economical, and most helpful to native plants and lake health over a 5 year period. The DNR has stated that they will not approve a whole-lake fluridone treatment for 2025, so a spot-treatment strategy must be used instead. The best spot treatment strategy will be to prioritize ProcellaCOR treatments. Aquatic Weed Control recomends ProcellaCOR at a rate of 2-4 PDU/acre-foot for all EWM areas. 2, 4-D at a rate of 2.0 parts per million (ppm) should be kept as an option for EWM treatments as well. Because of the severity of the EWM infestation and the inability to use fluridone to gain control of the EWM as has been done in the past, it is requested that the DNR provide 80% funding to treat 84.5 acres of EWM with ProcellaCOR.

Funding should also be set aside for early season CLP treatments in 2025. CLP is very dense in some areas of the lake and severely impairs use of the lake. It is important to note that any early season treatments will provide suppression of EWM in the treatment areas, so the early season treatments have been an integral part of the strategy to manage both the CLP and EWM. It is recommended that funding for up to 77.5 acres of early season pondweed treatments be set aside for 2025. Diquat at a rate of 2.0 gallons per acre in combination with copper sulfate at 1.0 part per million are recommended for the early season treatments.

Aquatic Weed Control also recommends that funding be set aside to selectively and aggressively treat all areas of SSW infestation. SSW is likely to expand in Webster Lake in the next several years, and funding should be set aside to manage all SSW areas on an annual basis. These areas of SSW will likely require two to three treatments annually to maintain control and try to slow the spread of SSW. Webster Lake will apply for maximum LARE SSW maintenance funding to help meet this need in 2025.



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## **Problem Statement**

Eurasian watermilfoil (EWM) has been present in Webster Lake for many years, and it impacts the use of the lake in many areas. Starry stonewort (SSW) was first found in 2015. Aggressive treatment in the past had made SSW undetectable, but it was found again in 2024. SSW is expected to increase in Webster Lake but should be treated aggressively to slow the spread and minimize its impact on lake use. Curly-leaf pondweed (CLP) also dominates much of the littoral zone in the spring. EWM, CLP, and SSW can form dense mats in shallow areas, which can inhibit fishing, swimming, and boating. Dense EWM, CLP, and SSW beds may also prevent the growth of beneficial native species. These native plants often provide less recreational interference and more desirable aquatic habitat.

## **Management Objectives**

The following specific, quantifiable objectives have been established to evaluate the success of EWM management activities at Webster Lake. These objectives have been developed in the past with coordination between the IN DNR and previous LARE contractors.

- 1. Keep EWM below 10% occurrence in summer Tier 2 surveys.
- 2. Keep CLP below 10% occurrence in spring Tier 2 surveys.
- 3. Keep SSW below 10% occurrence in summer Tier 2 surveys.
- 4. Maintain native plant coverage at 80% of sample sites in summer Tier 2 survey.

Treating invasive plants will not eradicate them from Webster Lake. However, if these objectives are met each year, the indication would be that they are being controlled effectively on a seasonal basis without causing damage to the native plant community.

In 2024, two of the four objectives were met, one was not met, and one was not applicable. EWM was found at 3.3% of sample locations in the tier II survey meeting objective one. There was no spring tier II survey, so objective two was not applicable. SSW was not collected in the 2024 tier II survey so objective 3 was met. Native plant coverage was 78.8% so objective four was narrowly missed.

#### **Aquatic Vegetation Management History**

Table 1 summarizes the LARE treatment history for Webster Lake going back to 2008. It also outlines many historical privately funded treatments as well. Data from before 2024 was taken from the 2023 AVMP completed by Solitude Lake Management (Solitude Lake Management, 2023 AVMP). The Webster Lake Conservation Association has actively managed invasive plants and impaired areas for many years.

Year	Target species	Acres	Herbicide
2008	EWM*, CLP, coontail, chara,	121 CLP,	Reward & Komeen
	And filamentous algae	46.8 EWM,	SL, Renovate EWM,
	-	38 SL	Aquathol early CLP
2009	EWM*, CLP, coontail, chara,	31.7 CLP,	Reward & Komeen
	and filamentous algae	38.7 EWM,	SL, Renovate EWM,
		38 SL	Aquathol early CLP
2010	EWM*	653	SonarONE and Sonar AS
2011	EWM*, CLP, coontail, chara,	0 (1.75	Renovate Max G
2011	and filamentous algae	EWM on	
		backwater	
2012	EWM* in main lake, algae,	45.3 EWM	2,4-D, Reward, Komeen, Aquathol
2012	coontail, EWM in channels only	(15.3 web),	2,4-D, Neward, Komeen, Aquathot
	coontait, Evvin in chaimets only	7.6 native	
2013	EWM* in main lake, algae,	53.0 EWM,	2,4-D, Reward, Komeen, Aquathol
2013			2,4-D, Newaru, Komeen, Aquathot
	coontail, EWM in channels	26 native	
2014	and select main lake areas		24 D. Doword Korsson Asystect
2014	EWM* in main lake, algae,	26.2 EWM,	2,4-D, Reward, Komeen, Aquathol
	coontail, EWM in channels	69.5 native	
0015	and select main lake areas		
2015	EWM* in main lake, algae,	60.8 native,	2,4-D, Reward, Clipper
	starry stonewort**,	4.5 SSW,	
	coontail, EWM in channels	158.8 EWM	
	and select main lake areas		
2016	EWM*,	60.8 native,	2,4-D, Reward, Clipper
	algae, coontail, coontail,	4.5 SSW,	
	pondweed	158.8 EWM	
2017	Eurasian watermilfoil,	60.8 native,	2,4-D, Reward, Clipper, Aquathol
	algae, coontail, coontail,	138.6 EWM,	
	pondweed	15 CLP	
2018	EWM*, Misc. Species	175 EWM	2,4-D Captain, Cygnet Plus, Reward
		60.5 natives	
2019	EWM*, Misc. Species	88.49EWM,	2,4-D, Clipper, Tribune, Cygnet Plus,
		68.59 shore	Captain
2020	EWM*	136 EWM	2,4-D, Clipper, Copper sulfate,
		17.73 shore	Tribune, Cygnet Plus
2021	EWM*	98.75 EWM	ProcellaCOR, 2,4 D, Clipper, Copper
		89 Shore	sulfate, Tribune, Cygnet Plus
2022	EWM*, CLP	62 EWM	ProcellaCOR, 2,4 D, , Tribune,
	,	50 CLP	Captain, Clipper, Copper sulfate
		63 SL	Propeller, Cygnet Plus, Sunwet
2023	EWM*, CLP, algae, coontail,	91.75	ProcellaCOR and 2,4-D for EWM,
-020	various pondweed spp.	EWM, 31.5	Diquat for CLP, Captain, Diquat,
		early CLP,	Flumioxazin, Cygnet Plus, Sunset for
		68.6 SL and	Shoreline and Channels
		Channels	
2024	EWM*, CLP*, SSW**		BrocolloCOB and 2.4 D
2024	EVVINI", ULP", 3300^^	112.5 EWM,	ProcellaCOR and 2, 4-D
		50.0 Early season CLP	Diquat and Copper
		1.0 SSW	Flumioxazin

#### Table 1: Webster Lake Treatment History

\*LARE and Association Funded

\*\* GLRI Funded

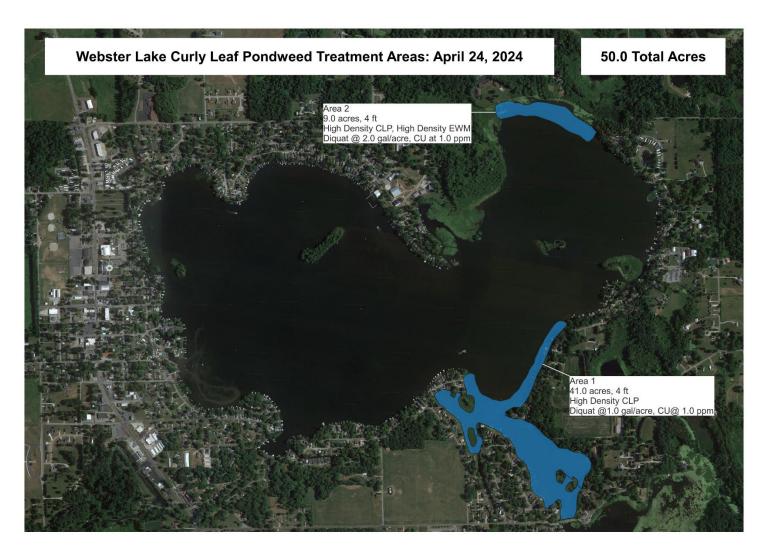


#### **2024 Vegetation Treatments**

## **Curly-Leaf Pondweed Treatments**

A visual survey was completed on April 2, 2024. This survey found that CLP was not yet ready for treatment. A second visual survey was conducted on April 15, 2024. This second survey prioritized 50.0 acres for early season (CLP) treatment. All 50.0 acres were treated on April 24, 2024 with a combination of Diquat and copper sulfate. These early season treatments were funded by both the lake association and LARE. The early season CLP treament areas are described in Figure 1 and Table 2.

#### Figure 1: Webster Lake 2024 Early Season CLP Treatment Areas



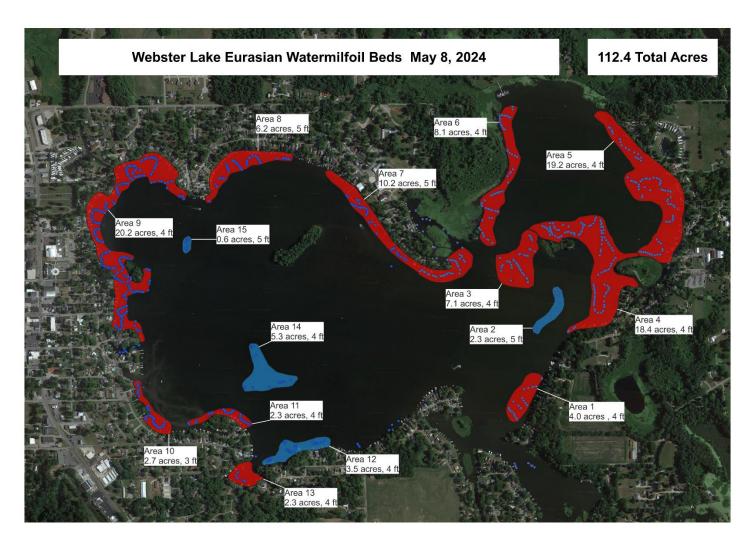
Webster Lake 2024 Early Season Curly-Leaf Treatment						
Area Acres Herbicide Rate						
Area 1	41.0	Diquat at 1.0 gal/acre +copper at 1.0 ppm				
Area 2	9.0	Diquat at 2.0 gal/acre +copper at 1.0 ppm				
Total Acres	50.0					





#### **Eurasian Watermilfoil Treatments**

Another visual survey was conducted on May 8, 2024 to identify and map all areas of EWM for treatment. This survey mapped 112.4 acres of EWM. All 112.4 acres of EWM were treated selectively with either ProcellaCOR herbicide or at a rate of 3 PDU/ac-ft or with 2, 4-D herbicide at a rate of 2.0 ppm. This treatment was funded by both LARE and the Webster Lake Conservation Association. The 2024 EWM treatments are described in Figure 2 and Table 3.



#### Figure 2: Webster Lake 2024 EWM Treatment Areas



Webster Lake 2024 Eurasian Watermilfoil Treatment								
Area	Acres	Avg depth	Herbicide					
Area 1	4.0	4	2, 4-D @ 2.0 ppm					
Area 2	2.3	5	2, 4-D @ 2.0 ppm					
Area 3	7.1	4	2, 4-D @ 2.0 ppm					
Aera 4	18.4	4	2, 4-D @ 2.0 ppm					
Area 5	19.2	4	2, 4-D @ 2.0 ppm					
Area 6	8.1	4	2, 4-D @ 2.0 ppm					
Area 7	10.2	5	2, 4-D @ 2.0 ppm					
Area 8	6.2	5	2, 4-D @ 2.0 ppm					
Area 9	20.2	4	ProcellaCOR @ 3 PDU/ac-ft					
Area 10	2.7	3	ProcellaCOR @ 3 PDU/ac-ft					
Area 11	2.3	4	ProcellaCOR @ 3 PDU/ac-ft					
Area 12	3.5	4	2, 4-D @ 2.0 ppm					
Area 13	2.3	4	ProcellaCOR @ 3 PDU/ac-ft					
Area 14	5.3	4	2, 4-D @ 2.0 ppm					
Area 15	0.6	5	2, 4-D @ 2.0 ppm					
Total Acres	112.4							

Table 3: Webster Lake 2024 EWM Treatment Details



## **Starry Stonewort Treatments**

On May 20, Aquatic Weed Control discovered one area of SSW infestation along the west shore of Webster Lake. Waypoints and pictures of the SSW were submitted to the IDNR who then funded the treatement of SSW with funds from the Great Lakes Restoration Initiative. 1.0 acre of SSW was treated on Webster Lake through the GLRI on both June 20, 2024 and September 3, 2024. All treatments used flumioxazin at a rate of 200 parts per billion (ppb). GLRI is not expected to fund any SSW treatments on Webster Lake in 2025.

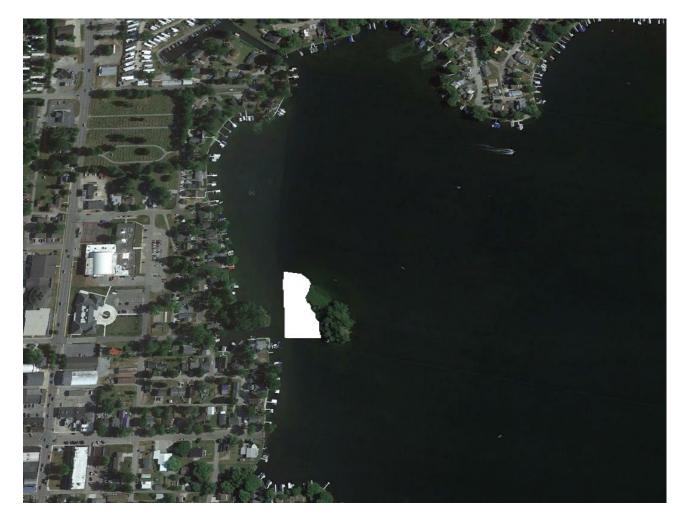


Figure 3: Webster Lake 2024 GLRI SSW Treatment Area (Map Provided by GLRI)

#### Table 4: Webster Lake 2024 SSW Treatment Details

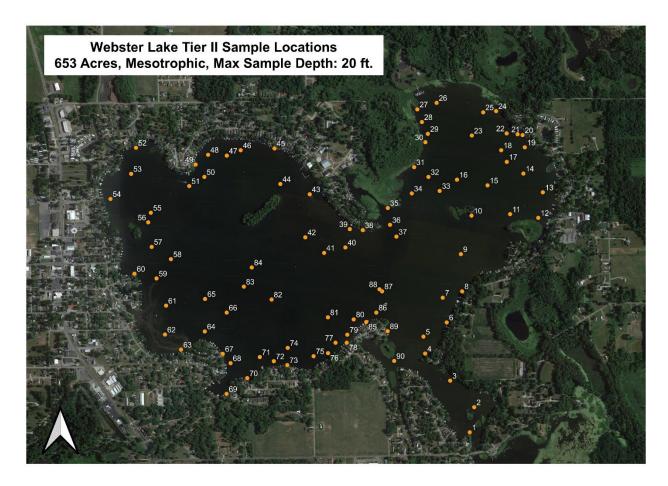
			Average		
Area	Acres	Dates Treated	Depth	Herbicide	Herbicide Rate
Area 1		June 20, 2024			
(white polygon on map)	1.0	September 3, 2024	4	Flumioxazin	200 ppb
Total Acres	1.0				





## **Tier II Survey Results**

A Tier II survey was conducted on August 21, 2024, by Aquatic Weed Control. Aquatic plant sampling methods used for surveys on Webster Lake are outlined in the Tier II Aquatic Vegetation Survey Protocol (IDNR 2018). Sample locations are identical to those used by the IDNR. Common and scientific names for aquatic plants are consistent with those listed in the original AVMP and are included in the appendix to this report. Ninety sample sites are spaced throughout the lake. The sample sites used in this survey are shown in **Error! Reference source not found.**.



### Figure 4: Webster Lake Tier II Sample Locations

## **Invasive Species**

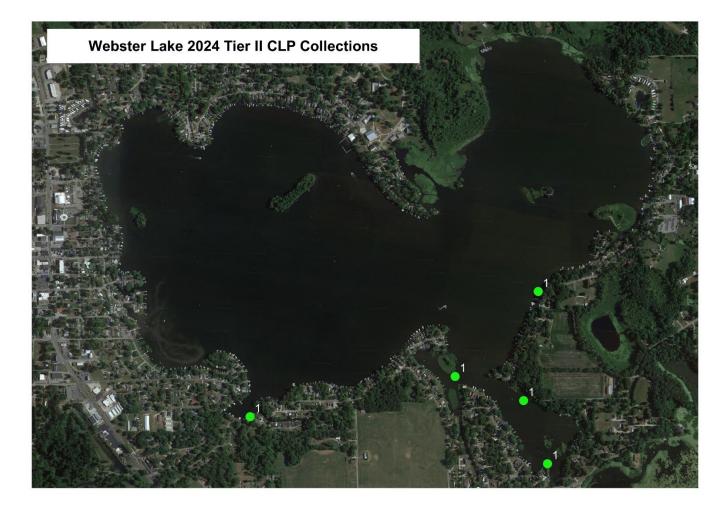
Eurasian watermilfoil (*Myriophyllum spicatum*) and curly-leaf pondweed (*Potamogeton crispus*) are the two exotic plant species collected in Webster Lake in the 2024 Tier II survey. Starry stonewort (*Nitellopsis obtusa*) was observed in 2024, but not collected in the Tier II survey.

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## **Curly-Leaf pondweed**

All Tier II CLP collections for the summer 2024 Tier II survey are described in Figure 5. In the summer 2024 Tier II survey, CLP was collected at 5 of the 90 sample locations. CLP dies off naturally as water temperatures reach about 75 degrees, so summer Tier II surveys will not reflect total CLP abundance in lakes.



## Figure 5: Webster Lake 2024 Tier II CLP Collections



## Eurasian watermilfoil

All Tier II EWM collections for the summer 2024 Tier II survey are described in Figure 6. In the summer 2024 Tier II survey, EWM was collected at 3 of the 90 sample locations. This is 3.3% of sample locations and met the objective of keeping EWM frequency below 10% in summer Tier II surveys. It is important to note that this survey was conducted after aggressive EWM treatments, so it does not reflect total EWM abundance in Webster Lake.



#### Figure 6: Webster Lake 2024 Tier II EWM Collections

#### **Tier II Survey Data Tables**

Results from the August 20, 2024, Tier II survey on Webster Lake are summarized in Table 5. Site frequency, dominance, diversity, and other metrics are shown for the entire survey (all depths) and for each 5-foot depth contour where plants were present. In this survey, plants were sampled to a maximum depth of 20 feet.



Occurrence		undence of Submar				Vobotor	Laka	
		undance of Submers Secchi (ft):		qualic PI				
	Kosciusko 8/21/2024	Sites with plants:		91	E Mean sp	ecies/site:		
Littoral Depth (ft):		Sites with native plants:			n native sp			
Littoral Sites:		Number of species:			E Mean na			
Total Sites:		Number of native species:				diversity:		
rotal ontool		Maximum species/site: 4 Native species diversity: 0.						
All Depths		Frequency of		score freq				
Species		Occurrence	0	1	3	. 5	Dominance	
Coontail		63.3	36.7	17.8	23.3	22.2	39.8	
White-Stemmed Pon	dweed	20.0	80.0	8.9	8.9	2.2	9.3	
Illinois Pondweed		11.1	88.9	7.8	3.3	0.0	3.6	
Chara		6.7	93.3	2.2	3.3	1.1	3.6	
Curly-Leaf Pondweed		5.6	94.4	5.6	0.0	0.0	1.1	
Small Pondweed		4.4	95.6	3.3	1.1	0.0	1.3	
Eurasian Watermilfoi	l	3.3	96.7	2.2	1.1	0.0	1.1	
Eel Grass		2.2	97.8	1.1	1.1	0.0	0.9	
Slender Naiad		2.2	97.8	1.1	1.1	0.0	0.9	
Filamentous Algae		50.0						
Occurrence	e and Abi	undance of Submers	sed Ad	quatic PI	ants in V	Vebster	Lake.	
County:	Kosciusko	Secchi (ft):	6.5		Mean sp	ecies/site:	1.62	
Date:	8/21/2024	Sites with plants:	27	SE	E Mean sp	ecies/site:	0.18	
Littoral Depth (ft):	20.0	Sites with native plants:	26	Mear	n native sp	ecies/site:	1.38	
Littoral Sites:		Number of species:	9	S	E Mean na	atives/site:	0.14	
Total Sites:	29	Number of native species:				diversity:		
		Maximum species/site:			ive species			
Depths: 0 to 5 ft		Frequency of		score freq			Plant	
Species		Occurrence	0	1	3	5	Dominance	
Coontail		55.2	44.8	24.1	13.8	17.2	30.3	
Illinois Pondweed		24.1	75.9	20.7	3.4	0.0	6.2	
Chara		20.7	79.3	6.9	10.3	3.4	11.0	
White-Stemmed Pon		20.7	79.3	6.9	10.3	3.4	11.0	
Curly-Leaf Pondweed		17.2	82.8	17.2	0.0	0.0	3.4	
Eel Grass		6.9	93.1	3.4	3.4	0.0	2.8	
Eurasian Watermilfoi		6.9	93.1	3.4	3.4	0.0	2.8	
Small Pondweed		6.9	93.1	3.4	3.4	0.0	2.8	
Slender Naiad		3.4	96.6	0.0	3.4	0.0	2.1	
Filamentous Algae		75.9						
Occurrence	e and Abi	undance of Submers	sed Ad	III ATIC PI	ants in V	Venster		
				1446011				
County:	Kosciusko	Secchi (ft):	6.5		Mean sp	ecies/site:	1.11	
County: Date:	Kosciusko 8/21/2024	Secchi (ft): Sites with plants:	6.5 24	SI	Mean sp E Mean sp	ecies/site: ecies/site:	1.11 0.12	
County: Date: Littoral Depth (ft):	Kosciusko 8/21/2024 20.0	Secchi (ft): Sites with plants: Sites with native plants:	6.5 24 24	SI Mear	Mean sp E Mean sp n native sp	ecies/site: ecies/site: ecies/site:	1.11 0.12 1.07	
County: Date: Littoral Depth (ft): Littoral Sites:	Kosciusko 8/21/2024 20.0 27	Secchi (ft): Sites with plants: Sites with native plants: Number of species:	6.5 24 24 4	SI Mear	Mean sp E Mean sp n native sp E Mean na	ecies/site: ecies/site: ecies/site: atives/site:	1.11 0.12 1.07 0.11	
County: Date: Littoral Depth (ft):	Kosciusko 8/21/2024 20.0 27	Secchi (ft): Sites with plants: Sites with native plants: Number of species: Number of native species:	6.5 24 24 4 3	SI Mear S	Mean sp E Mean sp n native sp E Mean na Species	ecies/site: ecies/site: ecies/site: atives/site: s diversity:	1.11 0.12 1.07 0.11 0.47	
County: Date: Littoral Depth (ft): Littoral Sites: Total Sites:	Kosciusko 8/21/2024 20.0 27	Secchi (ft): Sites with plants: Sites with native plants: Number of species: Number of native species: Maximum species/site:	6.5 24 24 4 3 3	SI Mear S Nat	Mean sp E Mean sp n native sp E Mean na Species tive species	ecies/site: ecies/site: ecies/site: atives/site: s diversity: s diversity:	1.11 0.12 1.07 0.11 0.47 0.44	
County: Date: Littoral Depth (ft): Littoral Sites: Total Sites: Depths: 5 to 10 ft	Kosciusko 8/21/2024 20.0 27	Secchi (ft): Sites with plants: Sites with native plants: Number of species: Number of native species/site: Maximum species/site: Frequency of	6.5 24 24 3 3 <b>Rake</b>	SI Mear S Nat score freq	Mean sp E Mean sp n native sp E Mean na Species ive species uency pe	ecies/site: ecies/site: ecies/site: atives/site: a diversity: a diversity: r species	1.11 0.12 1.07 0.11 0.47 0.44 Plant	
County: Date: Littoral Depth (ft): Littoral Sites: Total Sites: Depths: 5 to 10 ft Species	Kosciusko 8/21/2024 20.0 27	Secchi (ft): Sites with plants: Sites with native plants: Number of species: Maximum species/site: Frequency of Occurrence	6.5 24 24 3 3 <b>Rake</b> 0	SI Mear S Nat score freq	Mean sp E Mean sp n native sp E Mean na Species ive species uency pe 3	ecies/site: ecies/site: ecies/site: atives/site: a diversity: s diversity: r species 5	1.11 0.12 1.07 0.11 0.47 0.44 Plant Dominance	
County: Date: Littoral Depth (ft): Littoral Sites: Total Sites: Depths: 5 to 10 ft Species Coontail	Kosciusko 8/21/2024 20.0 27 27	Secchi (ft): Sites with plants: Sites with native plants: Number of species: Number of native species: Maximum species/site: Frequency of Occurrence 77.8	6.5 24 24 3 3 <b>Rake</b> 0 22.2	SI Mear S Nat score freq 1 25.9	Mean sp E Mean sp n native sp E Mean na Species ive species uency pe 3 29.6	ecies/site: ecies/site: ecies/site: atives/site: s diversity: s diversity: r species 5 22.2	1.11 0.12 1.07 0.11 0.47 0.44 Plant Dominance 45.2	
County: Date: Littoral Depth (ft): Littoral Sites: Total Sites: Depths: 5 to 10 ft Species Coontail White-Stemmed Pon	Kosciusko 8/21/2024 20.0 27 27	Secchi (ft): Sites with plants: Sites with native plants: Number of species: Number of native species: Maximum species/site: Frequency of Occurrence 77.8 18.5	6.5 24 24 3 3 <b>Rake</b> 0 22.2 81.5	SI Mear S Nat score freq 1 25.9 7.4	Mean sp E Mean sp n native sp E Mean na Species ive species uency pe 3 29.6 7.4	ecies/site: ecies/site: ecies/site: atives/site: s diversity: s diversity: r species 5 22.2 3.7	1.11 0.12 1.07 0.11 0.47 0.44 Plant Dominance 45.2 9.6	
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#### Table 5: Webster Lake 2024 Tier II Data



Tier II data for each survey conducted on Webster Lake since 2019 is included in Table 6. Data prior to 2024 was taken from the 2023 AVMP written by Solitude Lake Management. This data helps to describe any long-term changes or trends in the plant community of Webster Lake.

			Webster L	ake Historical	Tier II Data				
Surveyor	IDNR	Clarke	IDNR	Clarke	IDNR	Clarke	Clarke	SOLitude	AWC
Date	8/1/19	8/14/19	8/4/20	8/18/20	8/5/21	8/31/21	8/17/22	8/29/23	8/21/24
Total Sites	90	90	90	90	90	90	90	90	90
Littoral Sites	90	90	70	90	45	86	86	84	90
Sites with Plants	64	63	70	83	45	67	57	66	71
% Sites With Plants	71.10%	70.00%	77.80%	92.20%	50%	77.90%	63.30%	73.30%	78.88%
Sites with Native Plants	63	63	69	83	44	66	57	62	70
Percent Littoral Coverage	71.0%	70.0%	77.8%	92.2%	50.0%	73.3%	66.2%	93.3%	78.9%
Maximum Plant Depth	18 6	20 8.2	19 6	15 3.8	17 6	17.1 6	<u>19.1</u> 8.9	17 7.9	20 6.5
Secchi (ft) Number of Species	6 11	8.2 10	8	3.8 8	8	10	6	7.9	9
Number of Native Species	9	7	6	7	7	8	6	5	7
Species Diversity	0.65	0.62	0.59	0.63	0.75	0.72	0.66	0.69	0.67
Native Species Diversity	0.62	0.56	0.56	0.6	0.72	0.66	0.66	0.51	0.62
Mean Native Species/Site	1.03	1.06	1.16	1.48	0.69	1.28	0.93	0.96	1.1
/			•	ency of Occurre					
Eurasian Watermilfoil	2.2	3.3	1.1	6.7	0.0	3.3	0.0	18.9	3.3
Curly-leaf pondweed	1.1	2.2	0.0	0.0	4.4	8.9	0.0	6.7	5.6
Starry Stonewort	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coontail	60.0	66.7	72.2	82.2	30.0	58.9	50.0	60.0	63.3
Sago Pondweed	0.0	4.4	0.0	1.1	0.0	5.6	1.1	3.3	0.0
Chara Spp.	6.7	0.0	4.4	8.9	6.7	3.3	4.4	3.3	6.7
Slender Naiad	0.0	0.0	0.0	0.0	0.0	0.0	8.9	0.0	2.2
Canada Waterweed	2.2	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
Flat-stemmed Pondweed	1.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
Common Bladderwort	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
Small Pondweed	0.0	3.3	0.0	1.1	0.0	8.9	0.0	0.0	4.4
Nitella	2.2	0.0	0.0	11.1	0.0	2.2	0.0	0.0	0.0
Illinois Pondweed	5.6	18.9	17.8	42.2	16.7	30.0	12.2	28.9	11.1
Leafy Pondweed	16.7	0.0	16.7	0.0	10.0	4.4	0.0	2.2	0.0
Large-leaved Pondweed	0.0	1.1	0.0	1.1	0.0	0.0	0.0	1.1	0.0
White-stemmed Pondweed	1.1 0.0	0.0 8.9	0.0	0.0	0.0	0.0	0.0	0.0 0.0	20.0 0.0
Narrow leaved Pondweed Richardson's pondweed	0.0	8.9 0.0	0.0	0.0	0.0	2.2	18.9	0.0	0.0
Variable pondweed	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0
Eelgrass	0.0 41.1	2.2 0.0	0.0 35.6	0.0	0.0 46.7	0.0 80.0	0.0 62.2	0.0 61.1	2.2 50.0
Filamentous algae	41.1	0.0	•				02.2	01.1	50.0
	1	1	Species Frequ	ency of Occurre	ence - 0 to 5 fee	t			
Eurasian Watermilfoil	3.4	10.3	0.0	10.0	0.0	10.3	0.0	0.0	6.9
Curly-leaf pondweed	3.4	6.9	6.7	0.0	10.3	27.6	0.0	0.0	17.2
Starry Stonewort	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coontail	55.2	79.3	66.7	80.0	31.0	65.5	58.0	63.3	55.2
Sago Pondweed	0.0	3.4	0.0	2.0	0.0	10.3	0.0	10.0	0.0
0									
Chara Spp.	20.7	0.0	13.3	10.0	20.7	10.3	13.8	0.0	20.7
Slender Naiad	24.1	0.0	10.0	0.0	0.0	0.0	20.7	0.0	3.4
Canada Waterweed	6.9	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0
Flat-stemmed Pondweed	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0
Common Bladderwort	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
Small Pondweed	0.0	10.3	0.0	2.0	0.0	13.8	0.0	0.0	6.9
		1	1						
Nitella	6.9	0.0	0.0	14.0	0.0	6.9	0.0	0.0	0.0
Illinois Pondweed	6.9	34.5	0.0	48.0	20.7	51.7	13.8	40.0	24.1
Leafy Pondweed	24.1	0.0	13.3	0.0	10.3	10.3	0.0	6.7	0.0
Large-leaved Pondweed	0.0	0.0	0.0	2.0	0.0	0.0	0.0	3.3	0.0
White-stemmed Pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7
Filamentous algae	58.6			0.0		0.0	0.0		75.9
		0.0	35.6		48.3			0.0	
Narrow leaved Pondweed	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Richardson's pondweed	0.0	0.0	0.0	0.0	0.0	3.4	27.6	0.0	0.0
Variable pondweed	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0
Eelgrass	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	6.9

## Webster Lake Historical Tier II Data Continued

	-		r Lake His						
Funnaian Watanmilfail	27		Species Freque				0.0	0.0	2.7
Eurasian Watermilfoil	3.7 0.0	0.0	3.8	3.3 0.0	0.0	0.0	0.0	0.0	3.7 0.0
Curly-leaf pondweed Starry Stonewort	0.0	3.7	0.0	0.0	3.7 0.0	0.0	0.0	0.0	0.0
	74.1	85.2	73.1	86.7	37.0	59.3	55.6	53.6	77.8
Coontail Sago Pondweed	0.0	7.4	0.0	0.0	0.0	39.5	3.7	0.0	0.0
Chara Spp.	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
Slender Naiad	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0
Canada Waterweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flat-stemmed Pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Common Bladderwort	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pondweed	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0
Nitella	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
Illinois Pondweed	11.1	22.2	23.1	43.3	29.6	37.0	14.8	28.6	11.1
Leafy Pondweed	18.5	0.0	7.7	0.0	14.8	3.7	0.0	0.0	0.0
Large-leaved Pondweed	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White-stemmed Pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5
Filamentous algae	55.6	0.0	61.5	0.0	70.4	0.0	0.0	0.0	66.7
Narrow leaved Pondweed	0.0	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Richardson's pondweed	0.0	0.0	0.0	0.0	0.0	0.0	29.6	0.0	0.0
Variable pondweed	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0
Eelgrass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1	9	Species Freque	ncy of Occurrer	nce - 10 to 15 fe	et	1	1	
Eurasian Watermilfoil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Curly-leaf pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Starry Stonewort	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coontail	66.7	50.0	83.3	80.0	29.2	66.7	50.0	81.0	75.0
Sago Pondweed	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chara Spp.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slender Naiad	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0
Canada Waterweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flat-stemmed Pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Common Bladderwort	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pondweed	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	8.3
Nitella	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Illinois Pondweed	0.0	0.0	8.2	10.0	4.2	8.3	12.5	23.8	0.0
Leafy Pondweed	12.5	0.0	33.3	0.0	8.3	0.0	0.0	0.0	0.0
Large-leaved Pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White-stemmed Pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0
Filamentous algae	12.5	0.0	12.5	0.0	33.3	0.0	0.0	0.0	16.7
Narrow leaved Pondweed	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Richardson's pondweed	0.0	0.0	0.0	0.0	0.0	4.2	4.2	0.0	0.0
Variable pondweed	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0
Eelgrass	0.0	4.2	0.0 Species Freque	0.0	0.0	0.0	0.0	0.0	0.0
Eurasian Watermilfoil	0.0		· · · · ·				0.0	0.0	0.0
Curly-leaf pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Starry Stonewort	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coontail	20.0	20.0	60.0	0.0	10.0	20.0	10.0	25.0	20.0
Sago Pondweed	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0
Chara Spp.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slender Naiad	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
Canada Waterweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flat-stemmed Pondweed	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Common Bladderwort	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nitella	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Illinois Pondweed	0.0	10.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0
Leafy Pondweed	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
Large-leaved Pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White-stemmed Pondweed	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
Filamentous algae	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	10.0
Narrow leaved Pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Richardson's pondweed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Variable pondweed	0.0	0.0	0.0	0.0	010	0.0	0.0	0.0	0.0





## Water Clarity and Water Quality

Table 7 summarizes the Secchi readings taken in each Tier II survey on Webster Lake since 2019. Although water clarity can fluctuate greatly based on weather, rain events, and algal blooms, water clarity in Webster Lake might be considered moderate when compared to many other area lakes.

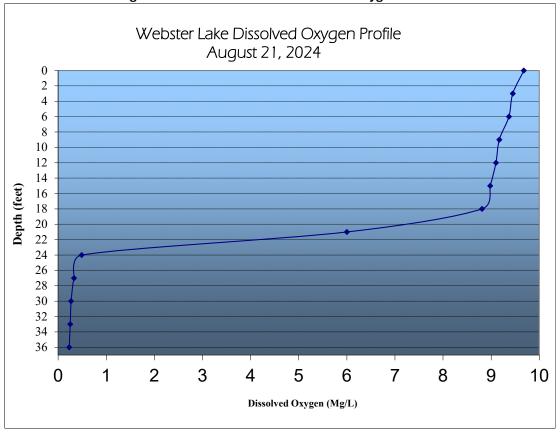
In 2019 through 2024, water clarity seemed stable, with Secchi readings generally between 6.0 and 8.9 feet. The exception would be August of 2020, when Secchi depth was 3.8 feet. It is very important to continue to monitor water clarity and quality as part of lake management and monitoring because water clarity can be an important indicator for changing water quality.

Date	Secchi Depth (ft)						
8/1/2019	6.0						
8/14/2019	8.2						
8/4/2020	6.0						
8/18/2020	3.8						
8/5/2021	6.0						
8/31/2021	6.0						
8/17/2022	8.9						
8/29/2023	7.9						
8/21/2024	6.5						

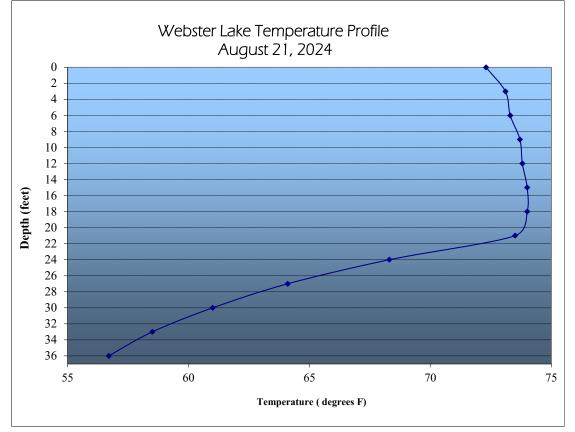
During the 2024 Tier II survey, Aquatic Weed Control collected data to construct dissolved oxygen and temperature profiles for Webster Lake. These profiles are described in Figure 7 and Figure 8. In 2024, Webster Lake had enough oxygen present (approximately 3ppm) to support fish life to a depth of approximately 22 feet.

Data from the temperature profile indicated thermal stratification in Webster Lake starting at a depth of around 20 feet in summer 2024. The water temperature was 72.3 degrees at the surface and dropped to 56.7 degrees at 36 feet of depth.





#### Figure 8: Webster Lake 2024 Temperature Profile





## **Tier II Discussion**

The summer 2024 Tier II survey indicates the native plant community is stable in Webster Lake. Native plant diversity was 0.62 in 2024 with 7 species of native plants being collected. The average number of native plant species collected at each sample site in 2024 was 1.1. Native plants were found at 70 of the 90 sample sites in 2024, which is 77.8% native plant coverage.

EWM is very abundant in the lake each spring. 2024 marks 14 full years since the most recent Sonar treatment. Generally, these treatments provide some level of residual control for 3 to 7 years, so no residual control from that treatment can be expected. In 2024, a total of 112.4 acres were treated for EWM control with ProcellaCOR and 2, 4-D. However, EWM was also present in varying degrees in the 50.0 acres of early season treatment areas. EWM was collected at 3 of 90 sample locations in the 2024 Tier II survey. It's important to note that the survey took place after aggressive mapping and EWM treatment. 2025 EWM density is expected to be similar to 2024 if re-growth occurs in 2024 2,4-D treatment areas and past treatment areas that showed no re-growth in 2024.

CLP is very abundant in many areas of Webster Lake in the spring. It generally dies back as the summer goes on but not before dominating the littoral zone for much of the spring. In 2024, after 50.0 acres of early season treatment, CLP was found at 5 sample locations in the summer. Given CLP severity and abundance in spring, it will likely continue to be a management challenge in the future.

SSW was not collected in the 2024 Tier II survey in Webster Lake. However, it was observed by Aquatic Weed Control in Spring of 2024, and it was treated by Aquatic Control with GLRI funding as directed by the DNR. SSW is expected to continue to expand its distribution in coming years and will likely need significant management to help slow its spread and prevent impairment.

## 2025 Action Plan

## Priority 1: Eurasian watermilfoil

## **Option 1: Whole-Lake Fluridone Treatment**

EWM coverage in Webster Lake was 112.5 acres in 2024 and could be increasing based on spring abundance each year. The historical maximum acreage is approximately 255 acres or around 38% total lake coverage. EWM treatment acreage has increased in the last 3 years (62, 91.75, and 112.5 acres). This is concerning, although EWM abundance for 2025 is difficult to predict. In situations where EWM distribution and density are so high, Aquatic Weed Control recommends a whole-lake fluridone treatment as the best management practice for the following reasons:

- 1. This is the least risky management option for significant negative impacts due to the early and slow EWM control.
- 2. Aquatic Weed Control feels Fluridone will provide the best advantage for native plants over a 5-year period by preventing EWM from dominating the littoral zone each spring. Fluridone treatments generally result in a short-term decline in the native plant abundance, with native plants commonly rebounding to near or even above pre-Fluridone abundance within 5 years.
- 3. It is the least expensive EWM control option over a 5-year period.
- 4. It provides the greatest level of EWM control.
- 5. It provides the greatest level of lake access for lake residents.
- 6. It provides the greatest chance to meet LARE program goals of developing stable, diverse ecosystems accessible for multiple lake uses.



The spot treatments in Option 2 (below) should be implemented only if a whole-lake Sonar treatment is denied by the IDNR. Aquatic Weed Control believes that option 2 has a greater chance of negative impacts, provides less EWM control, less lake access for residents, and is likely more expensive over a 5-year period. However, the DNR has indicated that a whole-lake Fluridone treatment will not be allowed in 2025, so specific treatment protocols and costs are given only for Option 2.

Because of the severity of the EWM infestation and the rapid EWM growth that occurs in mid to late May, it is important that no restrictions be placed on treatment timing. Any timing restrictions can add risk to an already difficult EWM situation.

## Position Statement from the IDNR on Fluridone in Webster Lake

"DNR agrees that there are times whole-lake treatments are justified, but disagrees with AWC that this is the best option for Webster Lake at this time. 2024 treatment acreages are similar to what have been treated in past years and it should not be assumed that this level will increase. Natural variation and success of ProcellaCOR treatments play a role in what level of EWM will be in Webster Lake in 2025. The current native plant coverage and diversity in the lake are adequate and the 2024 treatment was very successful at controlling EWM for the entire season. The 2010 Fluridone treatment was successful at controlling EWM temporarily, but it also had a severe impact on native plants. Those native plants did recover but only after treatments were reduced for multiple seasons. Because of the risk sonar imposes on native plants and the fact that spot treatments have been very successful at controlling EWM while maintaining adequate plant coverage DNR feels sonar is not the best option at Webster Lake at this time." (IDNR and LARE Staff, 2025)

## **Option 2: Spot Treatments for EWM and CLP**

All areas of EWM growth should be treated aggressively in 2025. We recommend setting aside funding to treat up to 84.5 acres of EWM selectively with ProcellaCOR herbicide in 2025. ProcellaCOR should be used at a rate of 3 PDUs per surface acre. Treatment timing is likely to be late May or early June. 2, 4-D may be used if ProcellaCOR label restrictions would prevent the use of ProcellaCOR.

If Option 2 is chosen, then the EWM treatment funding cap of \$35,000 should be waived. It is recommended that LARE fund 80% of all EWM treatment for all areas of EWM with ProcellaCOR to help get the EWM back to a more manageable level. This seems like a reasonable compromise between the DNR and lake association that could address DNR concerns about fluridone and allow the association to afford the control needed for reasonable lake access and use.

## **Early Season Treatments**

We recommend that at least 77.5 acres of early season curly-leaf pondweed be permitted and funded in 2025. The early season treatments provided good CLP control in Webster Lake in 2024, and they had the added benefit of supressing EWM within treatment areas. These treatments would be an important part of trying to manage all EWM in the lake in 2025. Diquat at a rate of 2.0 gallons per acre in combination with copper sulfate at a rate of 1.0 ppm should be used for these treatments.

## Starry stonewort

We recommend that maximum SSW maintenance funding be granted to Webster Lake in 2025. SSW is expected to become more problematic in Webster Lake in the coming years. SSW treatments can



help keep SSW impairment low and can slow the spread of the invasive plant. The aquatic vegetation control permit will request up to 5.0 acres of selective SSW control so that if new areas of infestation become problematic and need to addressed quickly. Clipper herbicide at a rate of 200 ppb should be used for the most complete SSW control. Each area of SSW would need treated two to three times per year. Methods for distributing information on education and awareness for SSW can be found in the Pubic Involvement section of this document.

## **Surveys and Planning**

A spring visual survey should also be completed to verify CLP and EWM locations prior to any herbicide treatments in 2025.

A summer (post treatment) Tier II survey should be used to monitor both invasive and native plant populations. The AVMP should also be updated for 2025. The Tier II survey will help to determine if native plant abundance is meeting the target objectives laid out in this plan. It will also help to determine if EWM site frequency remains below 10% which is a long-term goal of this project.

## 2025 Project Budget

<b>EWM Spot Treatment (Option 2)</b> Treat 84.5 acres with ProcellaCOR (3pdu/ac-ft) h	\$61,262	
<b>Early Season CLP Treatment</b> Treat 77.5 acres in the early season with Diquat (2	\$21,700	
<b>Starry Stonewort</b> Treat up to 5.0 acres of SSW 3 times with Clipper Cutrine Ultra Herbicide (0.8 ppm)	,	ıp to \$10,000
<b>Aquatic Vegetation Management Plan</b> Update the Aquatic Vegetation Management Plar	n for 2025 (includes Tier II Survey)	up to \$ 5,500
Total 2025 Cost Estimate: Recommended LARE Cost Share Recommended Association Cost Share	up to \$ 98,462.00 \$75,769.60 \$22,692.40	



## **Public Involvement**

Parties interested in the improvement of Webster Lake include members of the Webster Lake Conservation Association as well as others who access the lake at the IDNR owned access site on Backwater Lake. The most common and often most effective methods for keeping the public informed about aquatic vegetation management practices are lake association meetings as well as periodical newsletters sent out by the associations. It is recommended that association members encourage neighbors and other lake users to attend lake association meetings so that interested parties are well informed about the LARE program. Making sure that meetings are well advertised and planned well in advance of the meeting dates are ways to help ensure good attendance. Carry-in dinners, door prizes, contests, guest speakers, and discussion panels are all excellent ways to boost attendance, encourage involvement, and keep association members informed about lake management activities. The Webster Lake Conservation Association has been very active for many years and has encourage local residents to be involved in the lake management process.

The Webster Lake Conservation Association held a public meeting on August 10, 2024, and discussed issues related to the LARE program. Justin Blotkamp of Aquatic Weed Control attended this meeting to summarize LARE activities on the lake. Forty-eight total lake use surveys were returned. Some of these responses were returned at the meeting, while others were filled out online. Forty-seven of forty-eight residents were in favor of continuing invasive vegetation control. Not everyone answered every question, which is why question totals do not always add up to the total number of surveys returned. The results of all survey responses are summarized in Figure 9.



#### Figure 9: Webster Lake 2024 Public Survey Results

#### IDNR Lake & River Enhancement - Lake Use Survey

Lake name Webster Lake	_	Date 8/10/24						
Are you a lake property owner?	Yes <u>44</u>	No_2						
Are you currently a member of your lake ass	ociation?	Yes <u>43 No 3</u>						
How many watercrafts do you currently have registered in Indiana? $\begin{array}{ccc} 19 & 16 & 10 \\ 1 & 2 & 3 \end{array}$ or more								
Do you have a current Indiana Fishing Licen			No24					
How many years have you been at the lake?		8 6-10 years (	32 Over 10 years					
How do you use the lake (mark all that apply)       47_Swimming     3 Irrigation       48_Boating     Drinking water       27_Fishing     4 Other								
Do you have aquatic plants at your shoreline	in nuisance qu	uantities? Yes	<sup>35</sup> No 12					
Do you donate funding toward aquatic plant	control? Yes	<u>44</u> No <u>4</u>						
Do aquatic plants interfere with your use or enjoyment of the lake? Yes 40 No 8								
Do you support efforts to control invasive plants on the lake? Yes47 No 1								
Are you aware that LARE funds can only be native plants? Yes <u>43</u> No <u>4</u>		olling invasive p	lants, <u>not</u>					

Mark any of these you think are problems on your lake:

- 5 Too many watercraft use the lake
- 9 Lack of speed enforcement
- 3 Too much fishing
- 4 Fish population problem
- 32 Dredging needed
- 32 Too many aquatic plants
- 1 Not enough aquatic plants 13 Poor water quality

Please add any comments below or on the back: See continued page for additional comments.



## Webster Lake 2024 Public comments: (unedited and complete)

Channel properties need constant care and cleaning so that we can move our boats in and out.

Too many wake boats. Too much Duckweed.

Weed control needs to be primary focus

Improvement of weed control.

The WLCA and DNR continue to work hard and spend significant amounts of money on controlling invasive weeds on the lake. However, it seems that everything is always one step behind the actual growth, and the lake is intermittently choked by weed growth. In addition, it seems that the constant killing of weeds is leading to larger and denser algae blooms in the later season. In turn, the dead algae builds up in the shallowest parts of the lake, rendering them unusable unless the material is removed. It's a never-ending cycle from which we need to break free.

Introduction of muskies was a huge mistake. They eat pan fish, fishermen race their boats in early am. \$254 for a fishing license is highway robbery. I'll just let my 16 year old grandson catch fish for my supper.

Dredging needed in channel between property and island... water lever has been reduced to a foot or less in some spots due to the increased sediment pushed by wind and flow. (144 EMS W17)

Disagree with DNR muskie program as I believe it involves introducing an invasive species into our lake.

Fair condition , removal of duckweed would be an improvement.

We have so much weed growth and aquatic growth, then it is pushed towards the shoreline and then it sinks 77 feet from my shore. The muck was 4 feet deep of dead decaying riding plants. In addition, the lack of a sewer on the east side of Webster Lake certainly enhances the problem. we need a consistent effort over the next 10 to 15 years to dredge highly impacted areas, and control aquatic plants. This will eventually choke our lake.

The duck weed makes it unpleasant to swim. The "islands" of floating grasses and "hairballs" are disgusting along the shoreline. Our canal stinks terribly despite the crap being pulled from it by an individual

We are unaware of how to know the water quality in our lake. Who tests for this. We recently read in news that Indiana tests only a very small fraction of lake, pond, and river water. Where is this information found? Big unknown.

1)Eliminate/manage invasive aquatic plants and animals/fish, 2)Manage aquatic plants Pretty good condition, Needs dredging and to get rid of duck weed.

1. I have noticed an increase in what appears to be day use of the lake for boating and recreation. I am glad that people get to use and enjoy the lake, however, there should be some governance over this - especially around the major holidays of summer. There is always an uptick in usage and people are clearly not familiar with normal boating rules and traffic patterns of the lake. Many times anchoring in areas that are not safe or sensible for those that normally use the lake. The sooner we can move to a conservancy the better in my opinion. 2. Governance of fishing tournaments Thanks for all you do for everyone's benefit and enjoyment of the lake. It is appreciated.

The weeds at Lake Webster have been extremely pervasive over the last 2 years and would like to see more aggressive treatment take place

Weed control improvements

Consistency of weed control is critical to maintaining user enjoyment and property values.

In general lake Webster condition is good except for the increase of excessive weeds and lily pads near some of the shorelines and blocking access to open lake.

Enforced counter-clockwise boating would make boating safer

Plant more lilies in areas that enhance the lake and provide a natural filtering of sediment.

Dredging required, improvement in water clarity & vegetation control needed, completion of the sewer system around the entire lake is required. Would like to see a return of a variety of fish for recreational



fishing (perch, pike, bass, crappie, etc) and a return of turtles and frogs. Need much less emphasis on Muskie fishing.

Needs dredging on south shoreline at mouth of Webster Bay

Those that have speedboats and do wake boarding disregard the depths and areas to do so. I've seen them in four foot of water creating a brown wake from disturbing and destroying the bottom and churning up all the aquatic plants. Wake boarding either needs tighter controls or a ban. The water quality is poor due to the total plant kills currently employed by the conservation assoc. there needs to be the targeted kill of invasive but the use a broad spectrum weed killer and take away the plants needed to be present for fish life and lake clarity.

Too many weeds and duckweed this year

More weed control and dredging needed

Spraying of invasive weeds is overdone to the detriment of native plants.

need help with dredging on my channel, haven't received much help from

m other property owners to maintain

state should take over dam and expense. they control who is on the lake and open to all from outsiders. to benefit all.

Fishing has improved lately. I also believe removal of septic fields along lake will improve water quality and reduce some of the duckweed

Algae blooms are increasing. Too many invasive weeds. 5 Muskies per acre are too many.

## **References Cited**

IDNR. 2018. Tier II Aquatic Vegetation Survey Protocol. IN Department of Natural Resources, Division of Fish and Wildlife.

IDNR. 2025. IDNR Position Statement on Fluridone. Email Communication. IN Department of Natural Resources, Division of Fish and Wildlife.

Solitude Lake Management. 2023. Webster Lake 2023 Aquatic Vegetation Management Plan. 2249 Reum Rd. Suite 2. Niles, MI.



Common and scientific names of all plants found in this report are included below.

Common Name	Scientific Name
American pondweed	Potamogeton nodosus
Brittle naiad	Najas minor
Chara	Chara sp.
Coontail	Ceratophyllum demersum
Common bladderwort	Utricularia vulgaris
Curly-leaf pondweed	Potamogeton crispus
Canada waterweed	Elodea canadensis
Eel grass	Vallisneria americana
Eurasian watermilfoil	Myriophyllum spicatum
Flat-stemmed pondweed	Potamogeton zosteriformis
Illinois pondweed	Potamogeton illinoensis
Large – leaved pondweed	Potamogeton amplifolius
Leafy pondweed	Potamogeton foliosus
Narrow leaved pondweed	Potamogeton pusillus
Nitella	Nitella sp.
Richardson's pondweed	Potamogeton richardsonii
Sago pondweed	Stuckenia pectinata
Slender naiad	Najas flexilis
Southern naiad	Najas guadalupensis
Small pondweed	Potamogeton pusillus
Spiny naiad	Najas marina
Starry stonewort	Nitellopsis obtusa
Variable pondweed	Potamogeton gramineus
White-stemmed pondweed	Potamogeton praelongus



## **Tier II Data Sheet and GPS Coordinates - 2024**

Webster Lake	8/21/2024															
	Longitude	Site	Depth	Algae	EWM	CLP	Coontail	Illinois pondweed	Sago pondweed	Large-leaved pondweed	leafy pondweed	Chara	Small Pondwee	Slender Naia	White-Stem Pondwee	Eel Grass
41.317456		1	3.5			1	3	1								
41.318681	-85.6712	2	4.5	р			3									
41.319974	-85.67276	3	4.5		3	1	3						3			
41.321294	-85.67439	4	3	р			1									
41.32212	-85.6745	5	5.5	р			1									
41.322811	-85.67298	6	3.5	р			3									
41.324016	-85.67325	7	6	р			1									
41.324327	-85.67198	8	2.5	р		1	5	1								
41.326141	-85.67207	9	7				3									
41.328016	-85.67137	10	3.5				5									
41.32809	-85.66887	11	6	р			3									
41.327908	-85.66704	12	3.5	р			1	1								
41.329153	-85.66674	13	17	р												
41.330067	-85.668	14	10.5	р			1									
41.329491	-85.67033	15	10.5				5									
41.329769	-85.67232	16	13													
41.330635	-85.66908	17	10.5				5									
41.331204	-85.66944	18	14													
41.331346	-85.66791	19	6	р			3									
41.331941	-85.66805	20	4	р				3								
41.331982	-85.66838	21	4.5	р				1								
41.332023	-85.66909	22	6	р												
41.331921		23	20													
41.333112	-85.66978	24	3.5		1											
41.333051		25	5.5					3								
41.333512		26	11.5				5									
41.333194		27	4	р												
41.332578		28	5.5				3									
41.332002	-85.67421	29	16.5													
41.331596		30	2.5	р				1								
41.330378		31										3				
41.329904		32	6					1				-				
41.329221	-85.67344	33	7				5	-								
41.329099		34	5.5	р	1											
41.328388		35	4				5	1								
41.327569		36	6.5				3	1								
41.326994		37	9				1									
41.327312		38	3	F								5		3		
41.327359		39	7				5	3				5		3		
41.326466		40	16.5				3	0								
41.326202		40					5									
41.32696		41	10.5				3						1			
41.329058		42	6.5	n			1						1			
41.329559	-85.6838	43	10.5	P			1						1			<b>├</b> ──┤
41.329539		44	4.5	n			1					1	1		2	<u> </u>
				p			1					1			3	<u> </u>
41.331204		46	11.5				3								3	┝───┤
41.33094		47	16 9				5									
41.33098	-85.6885	48	-	-			5					3				
41.330507		49	2.5	р								3				
41.329904	-85.68874	50	14				3								3	
41.329458		51					1									
41.331326		52	3				1					3				
41.330053	-85.6935	53	10.5				3								1	
41.328828		54	10.5				3									
41.328158		55	20				5								1	
41.327691		56	11			-						-				
41.326493		57	6				1									┣──┤
41.325897		58	12				-						1			$\vdash$
41.324956		59	12				3									┣───┤
41.325187		60	4				3					1			-	┣───┤
41.32363		61					3						<u> </u>		1	┢──┤
41.322222		62			-								1		1	╂───┤
41.321484		63	3										1			$\vdash$
41.322371		64	6													┣──┤
41.323955		65	20				-									┣───┤
41.323291		66	7.5				5								-	<del>   </del>
41.321281		67	4				_								3	
41.320827		68	7.5				5								3	
41.319331		69	4.5			1	1								5	<u> </u>
41.320096		70	3				-								-	
41.321125		71	13				3								3	<u> </u>
41.320922		72	6.5		1		3								3	
41.320733		73	3												3	$\vdash$
41.321572		74	7.5				5									$\vdash$
41.321166		75	15		L								1			$\vdash$
41.321315		76	6.5				3								5	
41.321822		77	15.5				3							1		$\square$
41.321822		78	2				5									
41.322215		79	11				5									
41.32296		80	12				5									
41.323061		81	12.5				3								1	
41.323928	-85.68437	82	16.5													
41.324557	-85.68617	83	10.5				5								1	
41.325491	-85.68566	84	12				1									
41.322831		85	3				5						1		1	
41.323291		86	8				1									
41.324327		87	11.5													
41.324428		88	18.5													
41.322384		89	3				1								1	
41.320936		90	3.5			1	1									
	· · · · · · ·															·





#### APPLICATION FOR INDIANA AQUATIC VEGETATION CONTROL PERMIT State Form 26727 (R7 / 11-24)

#### FEE: \$20.00 per water body (lake/river)

DEPARTMENT OF NATURAL RESOURCES DIVISION OF FISH AND WILDLIFE ATTENTION: LICENSING UNIT 402 West Washington Street, Room W273 Indianapolis, IN 46204 Telephone: (317) 234-1074 Fax: (317) 232-8150 E-mail: AquaticVegPermit@dnr.in.gov

Page \_

of\_

INSTRUCTIONS: 1. Please type or print information.

- 2. Be sure to read all regulations.
- 3. Submit one application for each water body (lake/river).
- 4. Submit completed application with payment to Indiana DNR as required by IC 14-22-9-10.

Type of permit (check one): □ Whole lake I Multiple treatment areas If multiple areas, complete a section for each treatment area on page 2. Attach additional pages as necessary.

Name of applicant (company)		Name of lake association (if applicable)					
Webster Lake Conservation Association	on	Webster Lake Conservation Association					
Business Address (number and street or rural route, city, s	tate, and ZIP code)	-					
P.O. Box 79 North Webster, Indiana 46555							
Telephone number	E-mail address						
(574) 361-6091	mywyrick1@gmail	.com					
Name of certified applicator			Certification number				
TBD			TBD				
Name of water body (One application per water body.)		Drinking water supply?					
Webster Lake		Yes 🗸 No					
Nearest town		County of water body					
North Webster, Indiana		Kosciusko					
	AGREE	EMENT					
I have read the aquatic vegetation control permits laws (IC 14-22-9-10 and 312 IAC 9-10-3) and agree to abide by them. Under penalties of perjury (IC 35- 44-2-1), I certify that the information supplied by me is true and correct to the best of my knowledge.							
Signature of applicant			Date (month, day, year)				
			TBD				
Printed name of applicant							

Please return completed application with license fee made payable to the Indiana DNR to the address shown above.

FOR OFFICE USE ONLY							
Application number	Check number	Other					
Approved by:	Date Approved (month, day, year)						
Signature of permitting biologist		Date (month, day, year)					





Please complete one section for EACH treatment area. Attach a color map detailing the treatment area and denote the location of any water supply intake (if applicable).

Attach a color map detaining the deatherst area and denote the location of any water suppry mare (h approache).									
Treatment area number	Total acres to be controlle				dicular distan FBD	ce from shoreline	Maximum depth of treatment area (feet) TBD		
	up to 84.5		88						
Latitude / longitude or UTN	łs	Treatment me			Expected	month(s) of treatm	ent		
ALL EWM		Chemical Biological control May-A				-August			
Specify the method used to		egetation and d	ate (month/year)						
🗌 Rake 🗹 Visual	Other (specify):					Date: May -	August		
List chemical(s) to be used, method of physical or mechanical control and disposal area or the species and stocking rate for biological control: ProcellaCOR, 2, 4-D									
Name of Aq	uatic Plant	Check if Target Species	% Relative Abundance of Community	Name of Aquatic Plant			Check if Target Species	% Relative Abundance of Community	
Eurasian w	atermilfoil	M	70						
Sago por	ndweed		10						
chara			10						
coor		10							

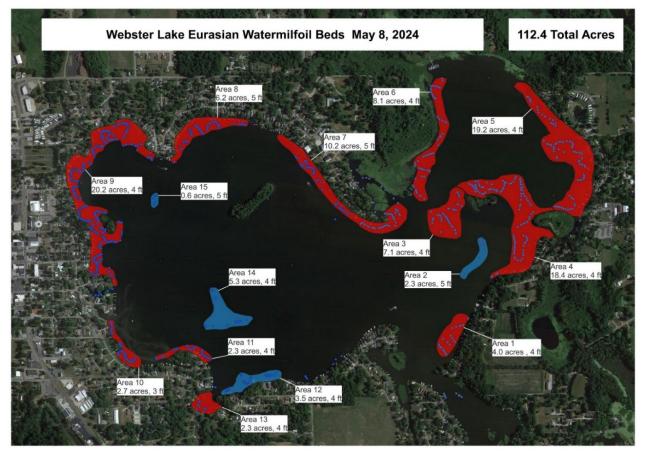
2 Total acres to be controll up to 77.5	led Proposed shoreline treatment length (feet) TBD			Perpendicular distance from shoreline (feet) TBD			Maximum depth of treatment area (feet) TBD		
Latitude / longitude or UTMs	Treatment me	thod			Expected	month(s) of treatm	ent		
Early Season CLP	Chemical Biological control     Physical Mechanical			April or May					
Specify the method used to determine presence of we Rake Visual Other (specify):	egetation and d	late (month/year)				Date: April or	May		
List chemical(s) to be used, method of physical o	r mochanical	antes and dispassion		the energies	and steels		•		
	rmechanical	control and disposal a	rea or	the species	s and stock	ing rate for blolog	ical control:		
diquat, copper									
Name of Aquatic Plant	Check if Target Species	% Relative Abundance of Community		Name of Aquatic Plant			Check if Target Species	% Relative Abundance of Community	
curly-leaf pondweed	V	70							
large-leaved pondweed		10							
chara		10							
coontail	coontail 🗖 10								

	Total acres to be control up to 5.0	olled Proposed shoreline treatment length (feet) TBD			Perpendicular distance from shoreline (feet) TBD			Maximum depth of treatment area (feet) TBD		
Latitude / longitude or UT	Ms	Treatment me				Expected month(s) of treatment				
All SSW		Chemical Biological control     Physical Mechanical			June - September					
📄 Rake 🔽 Visual	to determine presence of w Other (specify):					-	Date: June - :			
List chemical(s) to be us cutrine ultra, flum	sed, method of physical o İOXAZİN	r mechanical	control and disposal a	rea or f	the species	and stock	ing rate for biolog	ical control:		
Name of Ac	quatic Plant	Check if Target Species	% Relative Abundance of Community		Name of Aquatic Plant			Check if Target Species	% Relative Abundance of Community	
SS	SW .	121	70							
cha	ara		10							
slende	r naiad		10							
COO	ntail		10							



#### Webster Lake 2025 Permit Maps

The maps below are only meant to give a general description of some likely treatment areas for 2025. Visual surveys will take place in 2025 to map CLP, EWM, and SSW abundance. The SSW areas are expected to be within or near the white area on the SSW map below.



Webster Lake Potential EWM Areas

Webster Lake Potential Early Season CLP Areas



Webster Lake Potential SSW Area (provided by GLRI)

