

Erie and Campbell Lakes Year End Report



Prepared for
Skagit County and LMD

**AquaTechnex,
LLC**

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Local Offices

Centralia, WA Spokane Valley, WA Missoula, MT

Meridian (Boise), ID Bend, OR

Petaluma, CA Santa Ana, CA Palm Desert, CA

Introduction

Erie and Campbell Lakes have a history of noxious aquatic weed and cyanobacteria problems. In the early 1980's, Campbell Lake was the subject of a Clean Water Grant study that led to an alum treatment and the purchase of aquatic plant harvesters. This work provided temporary relief from these issues. Over time the citizens understood that the formation of a Lake Management District would benefit both communities and this entity was established.

Over the years, Eurasian Milfoil has been a dominate problem in both lakes. A Sonar herbicide treatment in Lake Erie largely removed this noxious weed from that system. Campbell Lake had similar success. In the decades since, ongoing maintenance treatments have been performed within the budget provided by the LMD. Various lake management firms have been involved in this work, a Request for Proposal process has been used. Over the past few years, Aquatechnex has been the successful respondent to this effort.

In addition to the budget available for weed control in both lakes, the Campbell Lake community has formed a nonprofit organization to help mitigate the recent cyanobacteria blooms that have plagued that waterbody. In the spring of 2025 Aquatechnex performed a Aluminum Sulfate treatment sequester phosphorus outside the scope of work of the LMD contract.



Aquatechnex biologists applying Aluminum Sulfate to Campbell Lake to sequester phosphorus and mitigate cyanobacteria blooms. This treatment resulted in good control through most of the summer of 2025



Survey and treatment recommendations

A survey of both lakes was completed last week to review conditions and suggest treatment options within the budget of the organization. The priorities would be plants on the state noxious weed list with secondary concern for native aquatic plant species growing at densities that impact beneficial uses.

Erie Lake

Last year Erie Lake has some very thick patches of Eurasian Milfoil present on the western and eastern shorelines. There are also pioneering colonies of Curly Leaf Pondweed present. Native aquatic plant species are also thick throughout the lake to the point where they are probably interfering with beneficial uses.

This summer's inspection of the lake showed that there was good control on the Eurasian Milfoil and Curly Leaf resulting from last years treatments. There were small patches of milfoil remaining at three locations in the lake totaling 3.8 acres. These should be targeted with Procellacor, a systemic selective herbicide to continue targeting that plant and keeping it in check.

Nuisance densities of Naiad, Thin Leaf Pondweed and Elodea were also present in the littoral area of the lake. We suggest treating these plants with contact herbicides where they are impacting the individual residents on the lake. We would target these with Diquat and propose 18.41 acres.

The suggested treatment zones are shown on the attached map.

Campbell Lake

Water clarity in Campbell Lake has improved considerably and this has lead to an explosion of Eurasian Milfoil present throughout the littoral zone of the lake. A couple examples of conditions are pictured here.

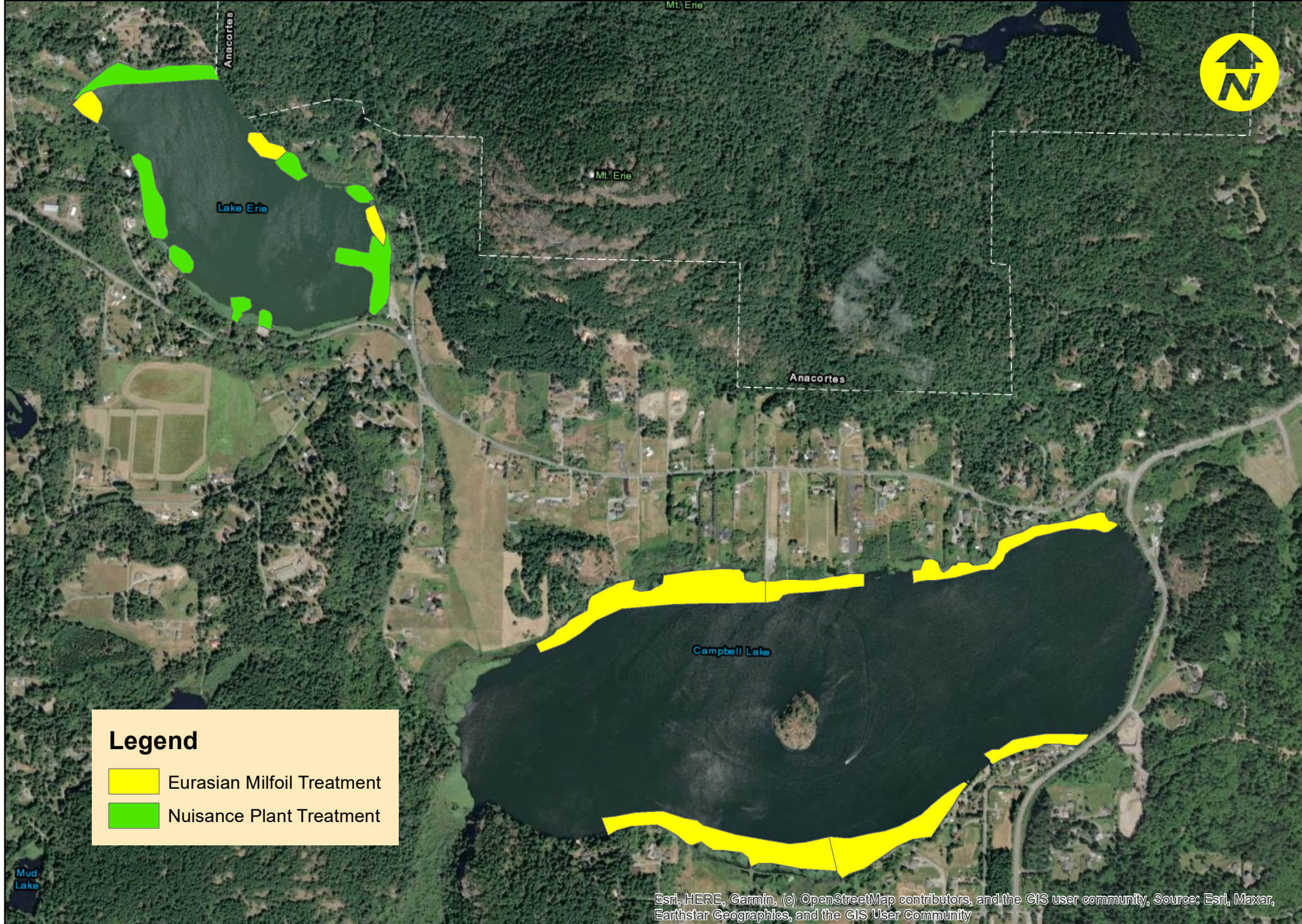
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There are 79 acres of the lake currently heavily infested with this noxious weed. The budget for the lake does not allow for targeting of all of these acres. We would propose using the systemic Procellacor herbicide and apply to high use areas and resident's beach areas to provide relief for the 2025 season. Procellacor should provide more than one year of control in these zones, so next years budget could be used to further target this plant. The budget would allow for treating approximately 45 acres.

The proposed work plan would be as follows

Lake	Task	Cost
Erie/Campbell Public Notice and Posting	Deliver 10 day notice and day of treatment shoreline posting	\$400.00
	Survey both lakes	\$3,000.00
Erie Eurasian Milfoil	Treat 3.8 Acres with Procellacor	\$2,945.00
Erie Nuisance Vegetation	Treat 18.41 Acres with diquat	\$6,090.50
Campbell Eurasian Milfoil	Treat 45 Acres with Procellacor	\$34,875.00
Permit Fee	Both lakes Ecology annual permit fee	\$1,450.00
Total		\$48,360.50
Remaining Budget		\$4,797.03



Proposed Treatment Areas 2025

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The public notification has been performed. We are organizing treatment dates and will advise shortly

Operations

Treatment of both lakes started in late June. The 10 day business and residential notice was delivered to the dwellings on each lake.

Lake Erie was treated on June 30th with Procellacor to target the Eurasian Milfoil discovered in the system. This treatment targeted 3.8 acres that has scattered plants present.

Allowing them to survive would lead to auto fragmentation and spread later in the summer. Procellacor is a fast acting systemic herbicide and plant uptake occurs rapidly. We did not apply the contact herbicides on the same day as there was some overlap of the treatment areas, and we didn't want the contact herbicide to drop the milfoil prior to uptake of the Procellacor. A second treatment was performed on July 7th targeting Curly Leaf Pondweed and other nuisance vegetation present in the lake as mapped.

Campbell Lake had extensive stands of Eurasian Milfoil present. There were also some areas impacted by Curly Leaf Pondweed. Based on the budget available for use, we recommended that Procellacor be used to target 45 acres of Eurasian Milfoil as that was the dominate problem. Procellacor should provide carry over into 2026 with respect to the milfoil present. That work was performed on July 1st.

Maps and spray reports are attached.

Going forward

After the successful Eurasian Milfoil treatment on Campbell Lake, later in the summer the lake experienced a bloom of Curly Leaf Pondweed. This will be a priority for treatment in 2026.

We have a couple different options to treat this problem with.

The more cost-effective treatment is subject to the Washington Department of Fish and Wildlife fish timing window restrictions. This web site ([WDFW: Aquatic Pesticides \(ver 1.1\)](#)) shows the various timing windows for treatment with some herbicides. When reviewing conditions for Lake Erie, the requirements are treatment approved year round. When reviewing conditions for Campbell Lake, the WDFW has not placed any conditions on that waterbody. When that is the case, they require applicators to observe a July 15th start date for treatment using a number of aquatic herbicides. Galleon herbicide is not subject to the fish timing window and is effective on Curly Leaf Pondweed but is more costly than the alternative Aquathol K which would be subject to the July 15 start date.

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There is an option to request a modification of the fish timing window and we will make that request. The Washington DOE permit however is in the process of renewal, it is not clear if we can request that change until after the permit is reissued on March 21st. We have asked Ecology for direction in this regard.

There is also budget for Aluminum Sulfate treatments in our 2026 work plan. We need to discuss application rates with the community and determine if the Friends of Campbell Lake are interested in augmenting this treatment as they did this past year. That should be part of the annual meeting discussion.



PESTICIDE APPLICATION RECORD (Version 1)

NOTE: This form must be completed same day as the application
and it must be retained for 7 years (Ref. chapter 17.21 RCW)

Washington State Department of Agriculture
Pesticide Management Division
PO Box 42560
Olympia WA 98504-2560
(877) 301-4555

1. Date of Application - Year: 2025 Month: April Day: 29th-30th Start Time: 9:00 am
Stop Time: 3:00 pm

2. Name of person for whom the pesticide was applied:

Firm Name (if applicable): Skagit County Noxious Weed Board

Street Address: 1800 Continental Pl City: Mt. Vernon State: WA Zip: 98273

3. Licensed Applicator's Name (if different from #2 above): Terry McNabb License No.: 7973

Firm Name (if applicable): AquaTechnex Tel No.: 360-330-0152

Street Address: P.O. Box 118 City: Centralia State: WA Zip: 98531

4. Name of person(s) who applied the pesticide (if different from #3 above): Braden O'Neil

License No(s). If applicable: 87689

5. Application Crop or Site: Lake Campbell

6. Total Area Treated (acre, sq. ft., etc.): 390 acres

7. Was this application made as a result of a WSDA Permit? ☒ No ☐ Yes (If yes, give Permit No.) #

8. Pesticide Information (please list all information for each pesticide, including adjuvants (buffer, surfactant, etc.), in the tank mix):

a) Full Product Name	b) EPA Reg. No.	c) Total Amount of Pesticide Applied in Area Treated	d) Pesticide Applied/Acre (or other measure)	e) Concentration Applied
Alum	N/A	24,000 gal	61.5 gal / acre	
			/	
			/	
			/	
			/	

9. Address **or exact location** of application. NOTE: If the application is made to one acre or more of agricultural land, the field location must be shown on the map on page two of this form.

10. Wind direction and estimated velocity (mph) during the application: 7-9 mph from W-SW

11. Temperature during the application: 54 Degrees F

12. Apparatus license plate number (if applicable):

13. ☐ Air ☒ Ground ☐ Chemigation

14. Miscellaneous Information:



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Washington State Department of Agriculture
Pesticide Management Division
PO Box 42560
Olympia WA 98504-2560
(877) 301-4555

1. Date of Application - Year: 2025 Month: July Day: 1st Start Time: 8:30 am
Stop Time: 1:00 pm

2. Name of person for whom the pesticide was applied:

Firm Name (if applicable): Skagit County Noxious Weed Board

Street Address: 1800 Continental Pl City: Mt. Vernon State: WA Zip: 98273

3. Licensed Applicator's Name (if different from #2 above): Terry McNabb License No.: 7973

Firm Name (if applicable): AquaTechnex Tel No.: 360-330-0152

Street Address: P.O. Box 118 City: Centralia State: WA Zip: 98531

4. Name of person(s) who applied the pesticide (if different from #3 above): Braden O'Neil

License No(s). If applicable: 87689

5. Application Crop or Site: Lake Campbell- Eurasian Watermilfoil

6. Total Area Treated (acre, sq. ft., etc.): 45 acres

7. Was this application made as a result of a WSDA Permit? ☒ No ☐ Yes (If yes, give Permit No.) #

8. Pesticide Information (please list all information for each pesticide, including adjuvants (buffer, surfactant, etc.), in the tank mix):

a) Full Product Name	b) EPA Reg. No.	c) Total Amount of Pesticide Applied in Area Treated	d) Pesticide Applied/Acre (or other measure)	e) Concentration Applied
ProcellaCor	67690-80	11.25	10 PDU / Acre	
			/	
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			/	
			/	

9. Address **or exact location** of application. NOTE: If the application is made to one acre or more of agricultural land, the field location must be shown on the map on page two of this form.

10. Wind direction and estimated velocity (mph) during the application: 9-12 mph from NW

11. Temperature during the application: 68-75 Degrees F

12. Apparatus license plate number (if applicable):

13. ☐ Air ☒ Ground ☐ Chemigation

14. Miscellaneous Information:



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Washington State Department of Agriculture
Pesticide Management Division
PO Box 42560
Olympia WA 98504-2560
(877) 301-4555

1. Date of Application - Year: 2025 Month: June Day: 30th Start Time: 10:30 am
Stop Time: 1:00 pm

2. Name of person for whom the pesticide was applied:

Firm Name (if applicable): Skagit County Noxious Weed Board

Street Address: 1800 Continental Pl City: Mt. Vernon State: WA Zip: 98273

3. Licensed Applicator's Name (if different from #2 above): Terry McNabb License No.: 7973

Firm Name (if applicable): AquaTechnex Tel No.: 360-330-0152

Street Address: P.O. Box 118 City: Centralia State: WA Zip: 98531

4. Name of person(s) who applied the pesticide (if different from #3 above): Braden O'Neil

License No(s). If applicable: 87689

5. Application Crop or Site: Lake Erie- Eurasian Watermilfoil

6. Total Area Treated (acre, sq. ft., etc.): 3.8 acres

7. Was this application made as a result of a WSDA Permit? ☒ No ☐ Yes (If yes, give Permit No.) #

8. Pesticide Information (please list all information for each pesticide, including adjuvants (buffer, surfactant, etc.), in the tank mix):

a) Full Product Name	b) EPA Reg. No.	c) Total Amount of Pesticide Applied in Area Treated	d) Pesticide Applied/Acre (or other measure)	e) Concentration Applied
ProcellaCor	67690-80	0.95	10 PDU / Acre	
			/	
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9. Address **or exact location** of application. NOTE: If the application is made to one acre or more of agricultural land, the field location must be shown on the map on page two of this form.

10. Wind direction and estimated velocity (mph) during the application: 8-10 mph from NW

11. Temperature during the application: 72-77 Degrees F

12. Apparatus license plate number (if applicable):

13. ☐ Air ☒ Ground ☐ Chemigation

14. Miscellaneous Information:



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NOTE: This form must be completed same day as the application
and it must be retained for 7 years (Ref. chapter 17.21 RCW)

Washington State Department of Agriculture
Pesticide Management Division
PO Box 42560
Olympia WA 98504-2560
(877) 301-4555

1. Date of Application - Year: 2025 Month: July Day: 7th Start Time: 9:00 am
Stop Time: 12:30 pm

2. Name of person for whom the pesticide was applied:

Firm Name (if applicable): Skagit County Noxious Weed Board

Street Address: 1800 Continental Pl City: Mt. Vernon State: WA Zip: 98273

3. Licensed Applicator's Name (if different from #2 above): Terry McNabb License No.: 7973

Firm Name (if applicable): AquaTechnex Tel No.: 360-330-0152

Street Address: P.O. Box 118 City: Centralia State: WA Zip: 98531

4. Name of person(s) who applied the pesticide (if different from #3 above): Braden O'Neil

License No(s). If applicable: 87689

5. Application Crop or Site: Lake Erie- Potamogeton spp., Elodea canadensis, Ceratophyllum demersum

6. Total Area Treated (acre, sq. ft., etc.): 18.4 acres

7. Was this application made as a result of a WSDA Permit? ☒ No ☐ Yes (If yes, give Permit No.) #

8. Pesticide Information (please list all information for each pesticide, including adjuvants (buffer, surfactant, etc.), in the tank mix):

a) Full Product Name	b) EPA Reg. No.	c) Total Amount of Pesticide Applied in Area Treated	d) Pesticide Applied/Acre (or other measure)	e) Concentration Applied
Tribune	100-1390	36.8 gal	2 gal / acre	
			/	
			/	
			/	
			/	

9. Address **or exact location** of application. NOTE: If the application is made to one acre or more of agricultural land, the field location must be shown on the map on page two of this form.

10. Wind direction and estimated velocity (mph) during the application: 5-7 mph from N-NW

11. Temperature during the application: 70-77 Degrees F

12. Apparatus license plate number (if applicable):

13. ☐ Air ☒ Ground ☐ Chemigation

14. Miscellaneous Information: