

October 23, 2024

Mr. David J. Rousseau, Director NH Division of Pesticide Control PO Box 2042 Concord, NH 03302-2042

Re: 2024 Aquatic Weed Treatment at Pillsbury Lake in Webster, NH - SP-106

Dear Mr. Rousseau:

In accordance with NH Pesticide Rules 603.03, SŌLitude Lake Management is submitting a written year-end report for the herbicide treatment of portions of Pillsbury Lake in Webster. This treatment was conducted in accordance with the conditions of Special Permit # SP-106 issued by the Division of Pesticide Control.

Project Summary

Project (Site / Location):	Pillsbury Lake / Webster,	NH	
Special Permit #:	SP-106		
Pre-Treatment Survey:	May & June 2024 (SLM)		
Treatment Summary:	Treatment Date: May 23, 2024		
	Herbicide:	Sonar Q (fluridone granular) - EPA Reg. No. 67690-3	
	Target Species:	Lilies	
	Area Treated:	25 acres	
	Treatment Area Depth:	5 ft. average	
	Application Rate:	5.4 pounds/acre	
	Total Herbicide Used:	135 pounds	
	Herbicide Concentration:	20 ppm	
	Herbicide Application:	Airboat with a backpack blower and GPS unit	
	Treatment Date: June 6, 2024		
	Herbicide:	Sonar Q (fluridone granular) - EPA Reg. No. 67690-3	
	Target Species:	Lilies	
	Area Treated:	25 acres	
	Treatment Area Depth:	5 ft. average	
	Application Rate:	5.4 pounds/acre	
	Total Herbicide Used:	135 pounds	
	Herbicide Concentration:	20 ppb	
	Herbicide Application:	Airboat with backpack blower and GPS unit	
	Treatment Date: June 25, 2024		
	Herbicide:	Sonar Genesis (fluridone liquid) - EPA Reg. No. 67690-54	
	Target Species:	Lilies	
	Area Treated:	25 acres	
	Treatment Area Depth:	5 ft. average	
	Application Rate:	0.54 gallons/acre	
	Total Herbicide Used:	13.5 gallons	
	Herbicide Concentration:	20 ppb	
	Herbicide Application:	Airboat with calibrated pump system and GPS unit	
Post-Treatment Survey:	June 6, June 25 & October 16, 2024 (SLM)		

Control of Target Varying degrees of reduction of yellow & white lilies was observed in and around the Species: treatment area during the post-treatment inspections. The cover of these floating leaf species was reduced by roughly: 80% throughout the lake, with 90%+ in the southern 3rd of the lake. Dense low-growing cover of native plants, primarily bladderwort and pondweeds remained throughout the lake. Herbicide distribution during the 3 treatments was concentrated in the northern portion of the lake and inner portions of the eastern coves (with all other areas receiving a lesser dose), knowing that released herbicide would be flowing/moving south over time. • Other aquatic plants observed in the treatment area that appeared to be healthy included: Potamogeton spp. Pondweeds (large-leaf & ribbon-leaf) Pontederia sp. Pickerelweed Watershield (*appeared "beat-up", but greatly unaffected) Brasenia sp. Nymphoides cordata Floating heart Carex sp. Sedge Bladderwort (*reduced) Utricularia spp. Vallisneria sp. **Tapegrass** No unanticipated impacts to non-targeted plants or other aquatic organisms were observed in or adjacent (Habitat Preservation Areas) to the treated areas during the posttreatment surveys. Areas outside of the treatment showed no negative impacts. Herbicide Residue Samples were collected and analyzed by Granite State Analytical in accordance with the **Testing Results:** permit requirements. May 23, 2024 Treatment • Result of the **7-day** sample Site A: fluridone- 3.0 ppb • Result of the 13-day sample Site A: fluridone- 4.0 ppb June 6, 2024 Treatment Result of the 7-day sample Site A: fluridone- 8.2 ppb Result of the 14-day sample Site A: fluridone- 8.9 ppb July 25, 2024 Treatment Result of the 7-day sample Site A: fluridone- 5.2 ppb Result of the 14-day sample Site A: fluridone- 4.5 ppb Copies of the laboratory reports are attached. PLVD reported late summer that many abutters were very happy with the results of the Late summer reports (DES, Assoc, etc.): treatment **Ongoing Management** Pillsbury Lake is a shallow nutrient rich pond that has posed continual management Recommendations: challenges, due to its rich sediment and progressive weed growth. With that said, in 2024, excellent progress was made towards the overall control of waterlilies (floating leaf vegetation). If the 2024 treatment does not provide good enough carryover control next season, another treatment with a different combination of fluridone products (or a topical glyphosate or other) treatment will likely be proposed for Pillsbury Lake in 2025. The 2025 treatment (if necessary) will mainly be focused on watershield growth. SŌLitude is consulting with SePRO (herbicide manufacturer) and the PLVD to come up with the best approach to avoid low efficacy due to outside contributing factors.

We trust that this report satisfies the reporting requirement for the 2024 herbicide treatment program performed at Pillsbury Lake.

Please feel free to contact our office if you have any questions or require additional information.

Sincerely,

SŌLITUDE LAKE MANAGEMENT

Pete Beisler

Senior Aquatic Specialist

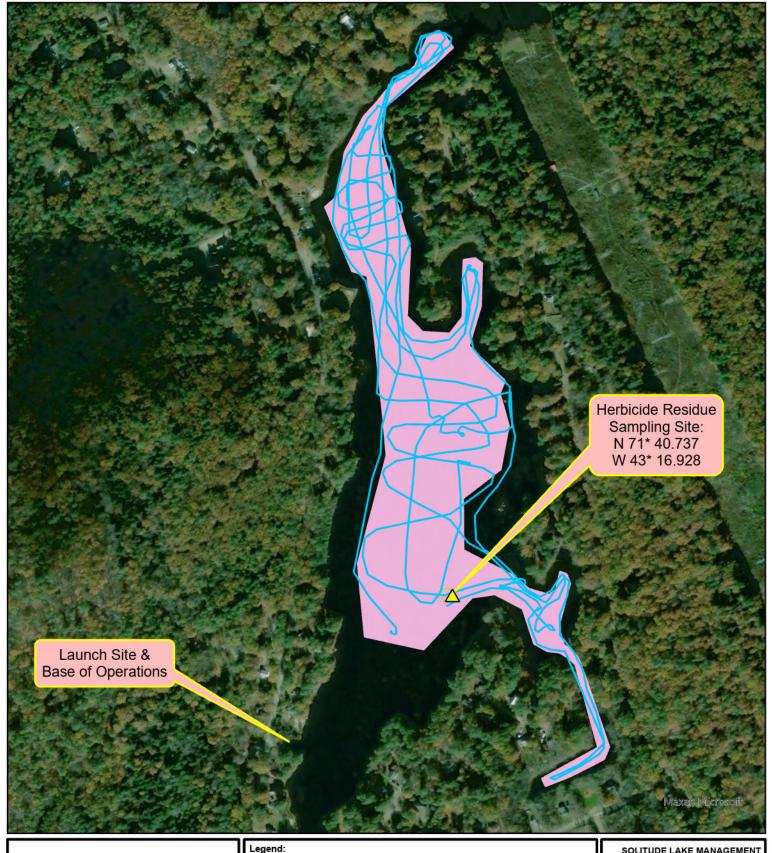
Enclosures: Actual Treatment Map

Laboratory Reports for post-treatment herbicide residue testing

cc: Michael Malecha, Pillsbury Lake Village District (via email)

Michael Dionne, NH Fish and Game Department (via email)

Ashley Litwinenko, NH DNCR (via email)



PILLSBURY LAKE

Webster, NH

2024 Actual Treatment #1 & Sampling Map

FIGURE:	SURVEY DATE:	MAP DATE:
2	5/23/24	9/25/24

Actual Treatment application Areas (25 ac)

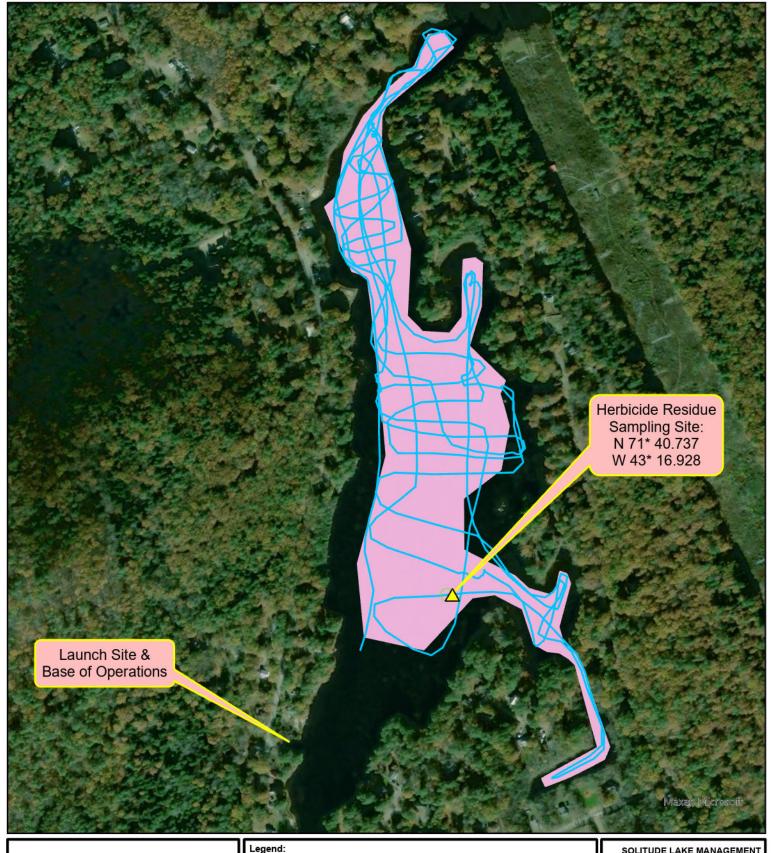
Actual Treatment Track 5/23/24

7 Day Sampling Location

△ 13 Day Sampling Location

1,200 Feet SOLITUDE LAKE MANAGEMENT 590 LAKE STREET SHREWSBURY, MA 01545 PHONE: (508) 865-1000 SOLITUDELAKEMANAGEMENT.COM





PILLSBURY LAKE

Webster, NH

2024 Actual Treatment #2 & Sampling Map

FIGURE:	SURVEY DATE:	MAP DATE:
2	6/6/24	9/25/24

Actual Treatment application Areas (25 ac)

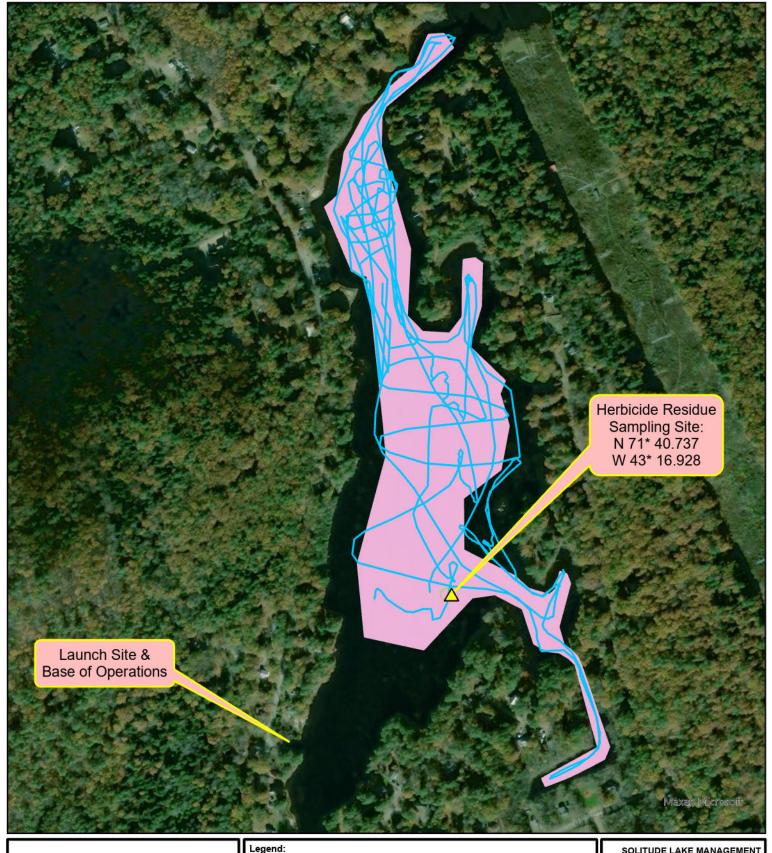
Actual Treatment Track 6/6/24

7 Day Sampling Location

△ 14 Day Sampling Location

1,200 Feet SOLITUDE LAKE MANAGEMENT 590 LAKE STREET SHREWSBURY, MA 01545 PHONE: (508) 865-1000 SOLITUDELAKEMANAGEMENT.COM





PILLSBURY LAKE

Webster, NH

2024 Actual Treatment #3 & Sampling Map

FIGURE:	SURVEY DATE:	MAP DATE:
2	6/25/24	9/25/24

Actual Treatment application Areas (25 ac)

Actual Treatment Track 6/25/24

7 Day Sampling Location

△ 14 Day Sampling Location

1,200 Feet SOLITUDE LAKE MANAGEMENT 590 LAKE STREET SHREWSBURY, MA 01545 PHONE: (508) 865-1000 SOLITUDELAKEMANAGEMENT.COM

