

Curly-leaf Pondweed Post-treatment Inspection Report

Lake: North and South Lake Lida

Inspection Date: 06/18/2026

County: Otter Tail

Surveyors: Hannah Passolt

Report Author: Hannah Passolt, MS, CMWP

Report Date: 07/15/2026

Houston Engineering staff (H. Passolt) completed a survey to determine the presence and/or absence and abundance of *Potamogeton crispus* (curly-leaf pondweed)(CLP) on North and South Lake Lida on June 18th, 2026. The purpose of this survey was to assess the effectiveness of herbicide treatments that were applied in early spring 2026, and to investigate areas of reported observations of curly-leaf pondweed (CLP).

Survey Areas

A total of five survey areas were sampled on North Lida and South Lida (**Exhibit 1**). Survey area A is a new curly-leaf infestation identified in 2026 (no herbicide treatment applied in 2026). Survey areas B, C, D and E all received herbicide treatments in 2026.

Methods

Survey methods included vegetation collection by thrown rakes and visual observation at sample points within each survey area (**Figure 1**). A professional GPS unit (Trimble TDC 600 with Juniper Systems Geode) was used during the field survey to navigate the survey areas and to record sample points. At each sample location, the presence/absence of CLP was determined. If CLP was present, abundance was estimated on a scale of 1 (low density) to 4 (high density) and recorded at each sample point.



Figure 1. Thrown rake sample with curly-leaf pondweed.

North Lake Lida Survey Results

Two survey areas (total 7.68 acres) were sampled in North Lake Lida. CLP was present in both survey areas (**Table 1, Exhibit 2A and 2B**).

Table 1. Summary of CLP abundance results for North Lake Lida survey areas.

Lake	Map ID	Average density rating	Survey area acres	# sample points	# CLP observations
North Lida	A	1.17	5.76	18	11
	B	0.41	1.92	22	5
Totals			7.68	40	16

South Lake Lida Survey Results

Three survey areas were sampled in South Lake Lida (**Exhibits 2C-2E**). CLP was present in two of the three survey areas (**Table 2**). Survey Area E had the highest average density rating of 2.24 (**Figures 2a and 2b**).

Table 2. Summary of CLP abundance results for North Lake Lida survey areas.

Lake	Map ID	Average density rating	Survey area acres	# Sample points	# CLP observations
South Lida	C	0.04	7.06	26	1
	D	0.00	3.07	21	0
	E	2.24	4.97	33	25
Totals			15.10	80	26

Conclusions and Recommendations

Survey area A was not treated with herbicide in 2026, and CLP abundance was relatively high. Survey areas B, C, D, and E were treated with herbicide in 2026. While CLP abundance was reduced in most treatment areas when compared to 2025, there are portions of survey areas B and E with relatively high abundance of CLP. Herbicide treatments were more effective in survey areas C and D, where frequency of CLP observations and abundance ratings were very low.

Herbicide treatments are recommended for survey areas A, B, and E. No herbicide treatment is recommended for survey areas C and D. Recommended treatment areas are summarized in **Table 3** and shown on **Exhibits 2A, 2b, and 2E**.

Table 3. Recommended 2027 treatment areas.

Lake	Survey area Map ID	Recommended 2027 Treatment Acres
North Lida	A (new survey area)	3.55
	B	0.82
South Lida	C	No treatment
	D	No treatment
	E	3.45
Totals		7.82

Exhibit 1

2026 Survey Areas Overview Map



Exhibits 2A-2E

Survey Results Maps with 2027 Recommended Treatment Areas

Exhibit 2A









