

What is Starry Stonewort

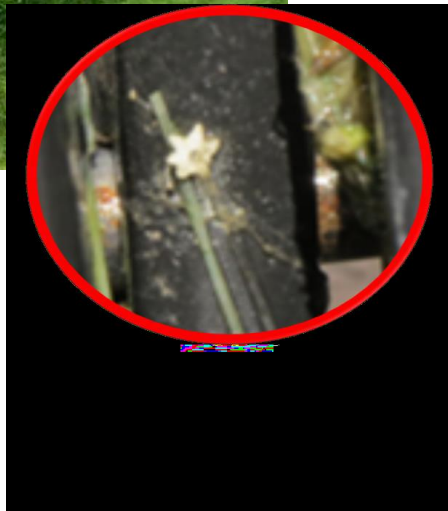


Photo: Paul Skawinski

Starry Stonewort

- A non-native invasive macro algae
- Bulbils are small and easily hid
- Bulbils are not susceptible to herbicide
- Nodes can form into bulbils
- Species is hard to ID
- Only Male plants have been found in USA = only reproducing via asexual means



Photos: Paul Skawinski



Bulbils are small enough to be lost in a spot of bottom mud.

How might starry stonewort affect a lake?

- May outcompete native aquatic plants.
- Thick “meadows” can prevent fish from spawning
- Can become a navigational nuisance in shallow waters (< 6 feet).
- Meadows may increase water clarity by minimizing sediment re-suspension.



Photo: Paul Skawinski
Slide: Courtesy WDNR



- St Clair River –1983

Slide: Courtesy WDNR

Starry stonewort in Wisconsin

- Big Muskego
- Little Muskego
- Long Lake
- Wind
- Silver (Washington)
- Pike
- Green
- Little Cedar
- Green Bay (City of Sturgeon Bay up through Door County)
- Geneva

Slide: Courtesy WDNR

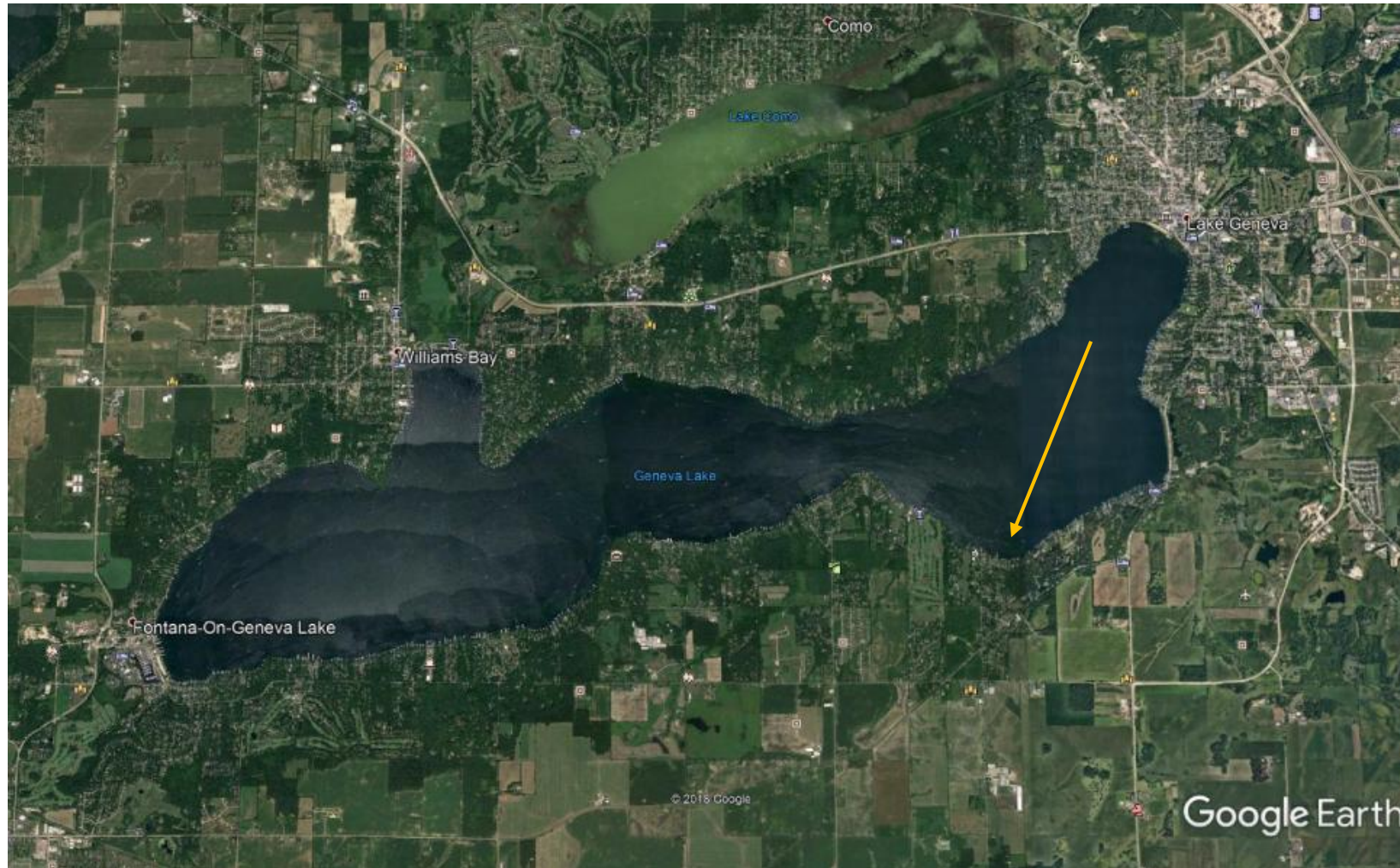
GLEA and WI DNR Initial Response to Starry Stonewort Geneva Lake, WI

- Identify locations
- Newspaper outreach
- Meeting with GLEA board
- Working relationship with Village of Williams Bay, City of Lake Geneva, Village of Fontana, Town of Linn.
- Coordinated monitoring efforts with Amy Kretlow, WDNR
- Searching funding sources
- Establish a management strategy with WDNR

Monitoring involved in starry stonewort management, Geneva Lake, WI

- Upon identification in the fall of 2018, plant surveys were conducted at all lake launch site, private and public.
- A pre-treatment survey of lagoon to confirm its presence and extent
- Post treatment herbicide residual survey to include, herbicide, copper and dissolved oxygen – both treatments.
- Lake-wide point intersect (PI) aquatic plant survey.
- Shoreline meander survey.
- Post treatment (PI) lagoon plant survey.

Location, East Bay of Trinke Lagoon, Geneva Lake WI



Management strategy - eradication

- Restrict access to known location.
- Chemically treat twice during summer of 2019.
- Residual herbicide testing after both treatments.
- Lake-wide plant surveys, summer of 2019
- Hydrologically dredge in fall of 2019

Buoys and markers located in Trinke Lagoon Geneva Lake WI.



Two floating buoys, Invasive species



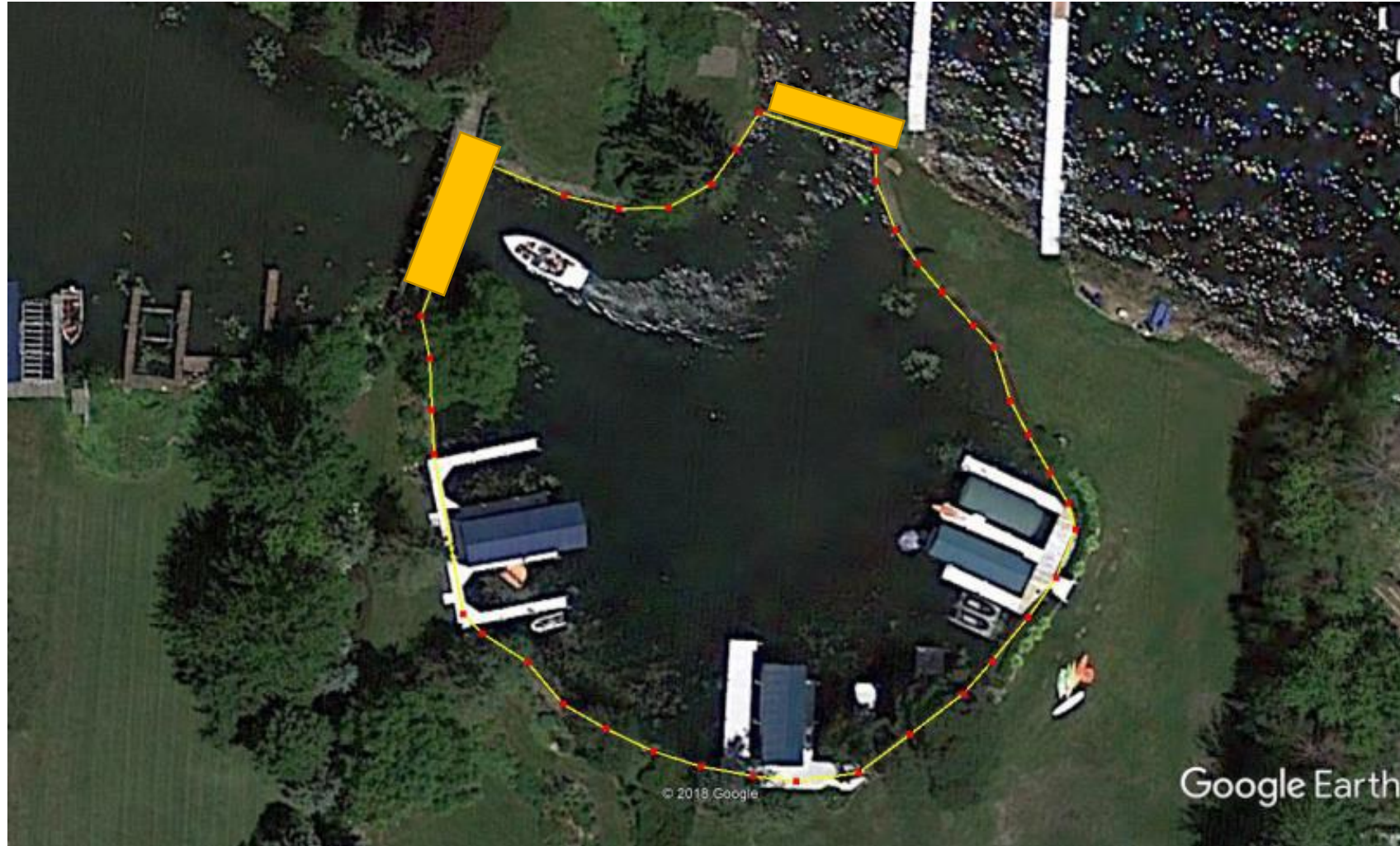
Floating buoy at
entrance to lagoon.



Two markers located on
piers in lagoon.

Management Plan for Starry Stonewort, Geneva Lake WI.

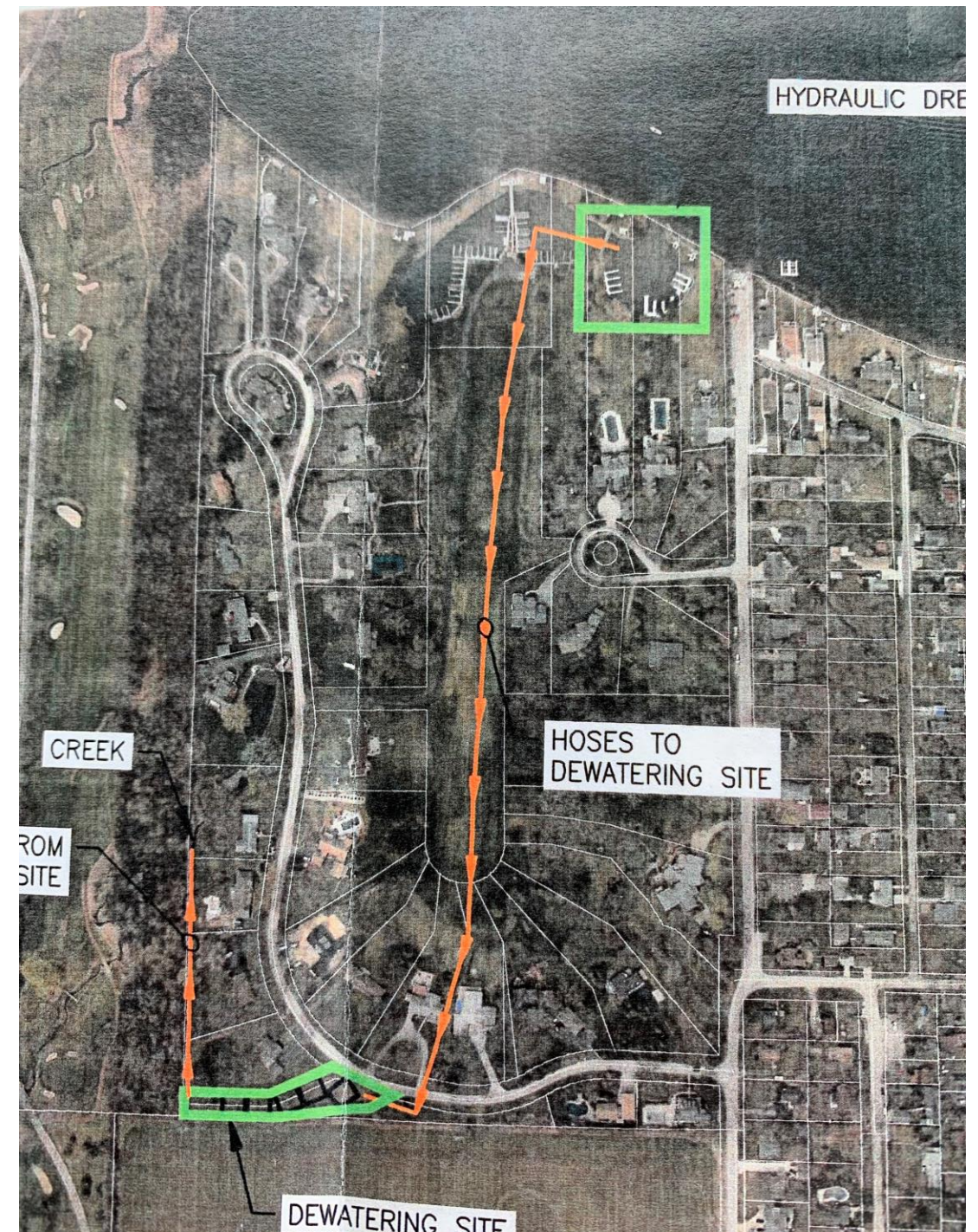
Chemical treatment twice during summer of 2019



Slide: WI DNR
and GLEA

Site Plan for Dredging and Dewatering, Trinke Lagoon Fall 2019, Geneva Lake, WI

Photo :Baxter & Woodman



Grants

- DNR Rapid Response Grant #1 –can provide up to \$20,000 in cost share for dredging (75% DNR and 25% local match)
- DNR Rapid Response Grant #2 –can provide up to \$20,000 in cost share for outreach, education, plant surveys, chemical treatment, informational buoy
- Limit of two Rapid Response Grants
- Reimbursement grants –no funds up front

Estimated Costs

• Dredging, dewatering:	\$175,000
• Spoils disposal and site restoration:	\$35,000
• Chemical treatments:	\$15,000
• Contingencies and Engineering:	\$40,000
• Aquatic Plant Survey:	<u>\$5,400</u>
	\$ 271,400
	<u>- \$40,000</u>
	\$231,400
Total costs	
Grants	
Need to Raise:	

Trinke Lagoon with buoys and curtains, Geneva Lake WI.



Photo: GLEA

Donation to help support SSW management of Geneva Lake WI.

- Direct contribution to Geneva Lake Environmental Agency.
Send donation to: GLEA, P.O. Box 914, Williams Bay WI 53191
ID for Starry stonewort.
- Go directly to our GoFundMe site at:
<https://www.gofundme.com/f/starry-stonewort-management>
- Visit our web page at www.genevalakemanagement.com
and link to our GoFundMe site.