

TOWN HALL MEETING

Lake Summerset 2018 Dredge Program Update for Members

Presented By

Lake Planning Committee
Lake Summerset Operations



Agenda

- Introductions
- Brief Overview of Dredging Program
- Progress Update on Dredging Program
- Details of Areas to be Dredged
- Boating Operations
- Q & A



Introductions

- Ken Malten (Co-Chairman) *
- Steve Harting (Co-Chairman) *
- Bob Page *
- Steve Marshall *
- Mark Metzler *
- Jeff Folkerts *
- Marty Beierwaltes *
- Brian Bandoili (Operations Manager LSA)



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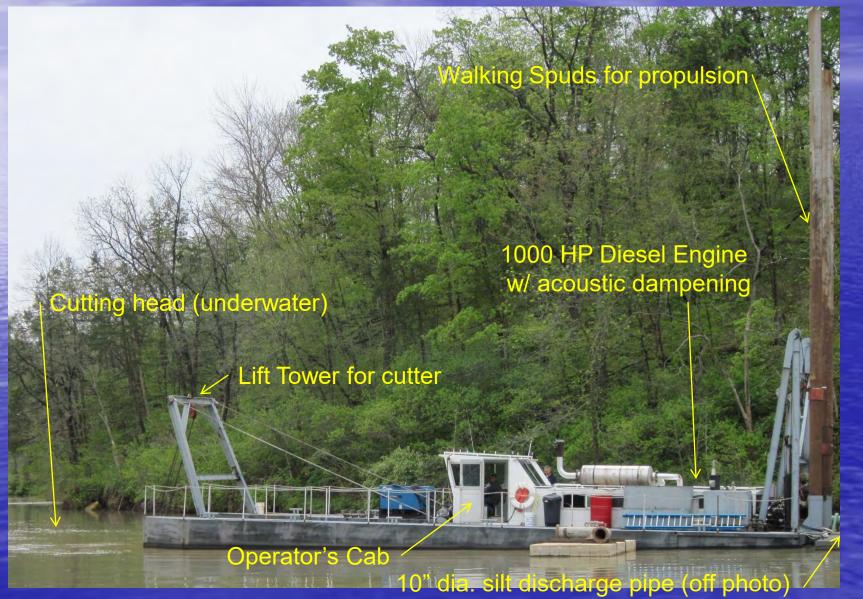
L.S. Hydraulic Dredging Programs

- ~1977 Contracted to Beloit Pipeline & Dredge
- 1989 C&C Dredging & Const. Lake Zurich, IL
 - 3 Years between dredge programs
- 1992 Completed by LSA w/ Leased Equip. (Mud Cat)
 - 26 Years between dredge programs
- 2018 Contracted to Frentress Lake Marine
 - Permitting Completed
 - Detention basin reconstruction completed

Frentress Lake Marine's -

High Pressure Cutting Dredge

Operational Photo from Galena Territories



Hageman site for silt disposal



Hageman Site Ready for Silt (View looking East toward L.S.)

Dredge Discharge Into Basin (East End)





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Dredge Program Update – April 28th

- Permits Updated 4Q 2017
- Siltation Basin Recon. 4Q 2017
- Silt Studies Updated & Dredge Areas Defined April
- Frentress Lake Marine Mobilization Feb. thru Mar.
- Dredge, Piping & Aux. Equip. Assem. Mar thru Apr.
- Dredge Operations Started April 24th

LPC Siltation Studies

LPC & LSA staff have worked to monitor silt levels periodically, major projects listed below:

- 2009 2010 Full survey
- 2011 Birch & Tamarack Bay
- 2015 West End (50%) & Tamarack Bay (50%)
- 2107 West End Full
- 2018 Birch & Tamarack Bays (Completed)

Notes: 2019 – West End, Birch Bay & Tamarack Bays will be restudied to measure silt removed

Siltation Studies (typical) Cross Section Lot 4 to 213



Dredge Main Power Unit - Delivered to L.S. (2/21/18)



Ice Still on lake

Dredge Assembly Main L.S. Marina -



Several Semi Trailer loads of Equipment were assembled on site

Dredge Pipeline Assembly — (~ 2 mile of 10" ID Pipe Regd.)



Pipe Heat Welding Operation

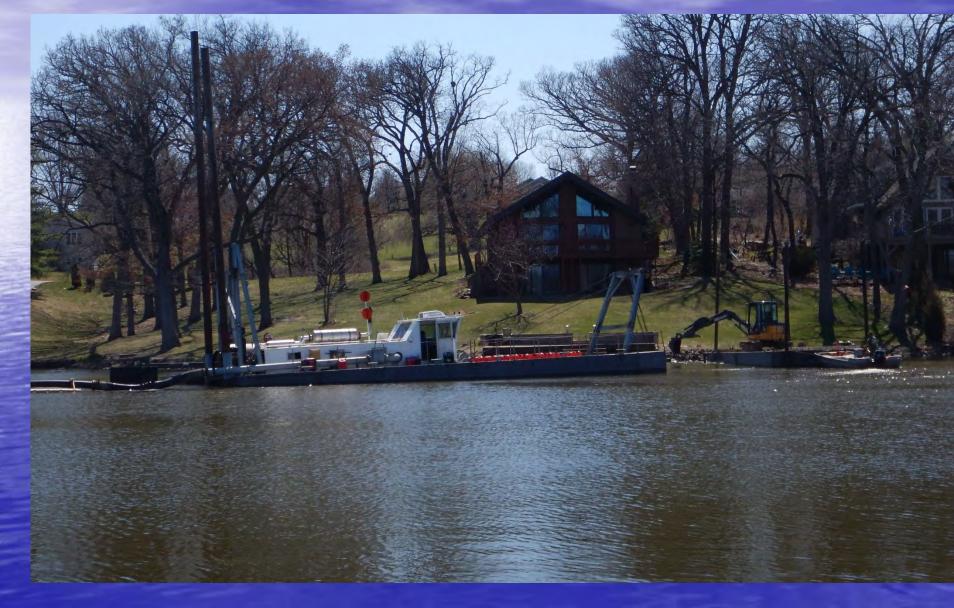
HDPE Discharge Pipe (heat welded in field)



Pipeline Placed In Positioned -



Dredge Operation Start - (April 24th)



Silt Discharge Into Basin



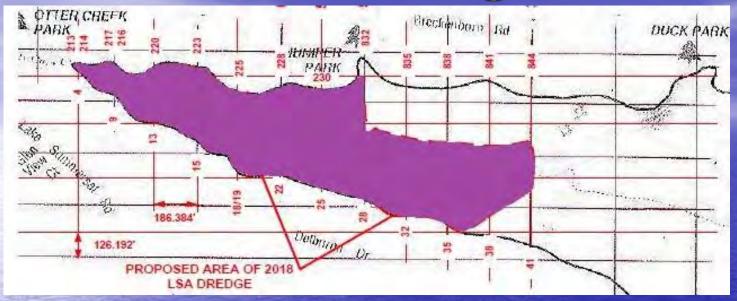




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2018 Planned Dredge Area - West End

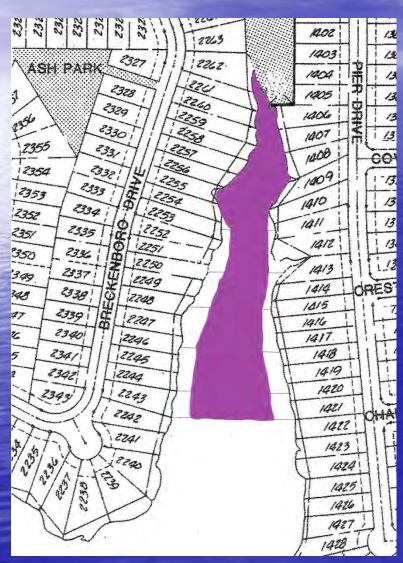


Projected Dredge Area:

- Purple colored area
- Inlet* to the line between lots 843 to 41
- Projected Silt Removal
 ~36,000 cu. yds.

* Dredge will proceed into inlet area as far as equipment will allow

2018 Planned Dredge Area Tamarack Bay

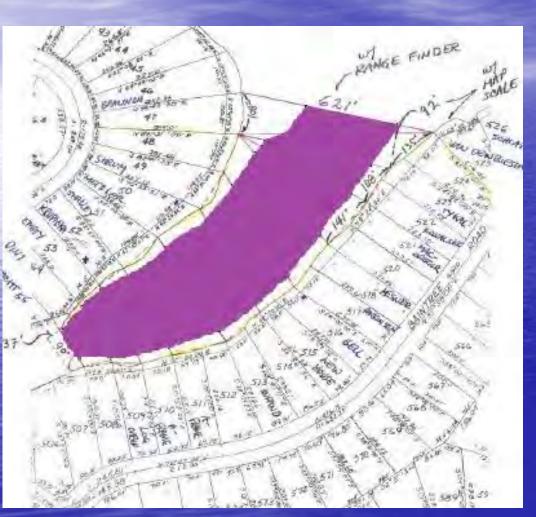


Projected Dredge Area:

- Purple colored area
- Inlet* to the line between lots 2243 to 1421
- Projected Silt Removal
 ~17,000 cu. yds.
- Silt survey showed minimal recoverable silt beyond shaded area

^{*} Dredge will proceed into inlet area as far as equipment will allow

2018 Planned Dredge Area Birch Bay



Dredge area:

- Inlet* to the line between lots 47 to 524
- Projected Silt
 Removal ~7,000
 cu. Yds.

^{*} Dredge will proceed into inlet area as far as equipment will allow

Hours of Dredge Operation

- (6) Days / Week (Monday thru Saturday)
- 12 hours / Day (start time ~7:00 AM)
- Cooler Weather Operation (windows closed),
 operation times may be extended
- Equipment Breakdowns may effect Sunday Downtime

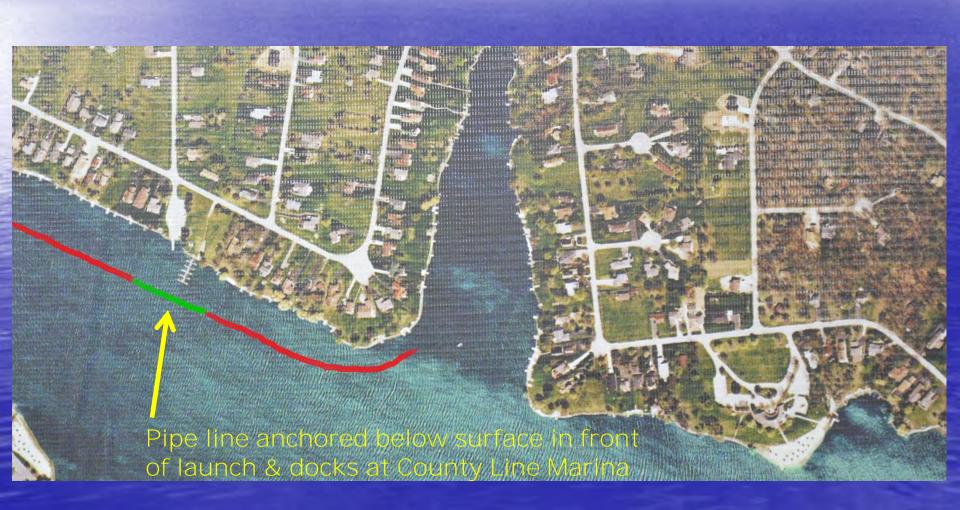
We have ~60,000 cu. yds. to remove, best effort to avoid interference with lake recreational activities



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County Line Marina Open During Tamarack Bay Dredging



Discharge Line from Dredge

- Semi Rigid 10 Dia. HDPE Pipe (up to 1.5 miles)
- Line is marked periodically with Orange Safety Floats
- The line will float when the dredge is not pumping
- The line will sink when the dredge is pumping
- Boaters need to be aware that the pipe could surface unexpectedly (causing damage or upset a boat)

Pipeline In Lake w/ Marker Buoys –



Season Installation of Docks & Lifts

- Members outside of areas to be dredged proceed to put docks & lifts in as normal
- Members in the defined dredging areas install docks & lifts as you would normally. You may wish to remove / relocate your boat while dredge is in your immediate area.
- Members that border the creek or stream (W.E.
 & Tamarack) you may wish to hold off installing docks & lifts until dredging is completed. These are heavy silt areas and need maximum access for dredging

Frentress Lake Marine's Dredge — Cutter Head / Intake



The Business End of the Dredge



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THANK YOU!!

Presentation will be posted on Lake Summerset's Website