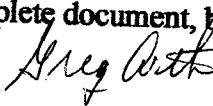


Letter/Presentation to:
Dunlap Lake Board & Members
Ref: Changes Needed for Dredging Plan
7/23/2016

Note: I request this, complete document, be entered into the official minutes for the meeting dated 7/25/16. 

To All Board Members and Dunlap Residents;

I've taken some time to study the Boards' Proposal for Dredging presented to the Membership on June 22, 2016. The Board has put a lot of effort into adopting a Plan, that has been, and will always be, an issue that will plague Dunlap Lake forever.

There are a lot of GOOD Points to the Board Proposal, and I think Phase 1 & 2 are pretty sound in the "BASE" needed. I sincerely believe this project can be accomplished at about ½ the price tag listed in the Boards' Proposal. An ALTERNATE PROPOSAL, I am presenting, will give Dunlap Lake... A "FOREVER PLAN", that future Boards will not struggle to finance. This plan takes the future into consideration instead of the "I'll be dead in 20 years, let the next Board worry about it" attitude.

I hope the Board sees this plan as a "starting point" and a sense of direction, not to be picked apart as gospel, but to be used as a concept worth researching as it gives Dunlap... LONG TERM solutions. I have taken all figures distributed by the Board, item for item, and used those figures to base my observations. This plan, again, needs further review and research... but is much more "Cost" conscious, which is the MAJOR complaint from residents.

The ALTERNATE PLAN is attached and goes thru specific costs in DIRECT comparison to the Boards Plan. (Please review spread sheets attached).

QUICK OVERVIEW OF ALTERNATE PLAN

1. Phase 1...Keep ENTIRE Phase 1 of Boards Proposal... AS IS....
This puts ALL storage/disposal of silt, in place to accommodate any and all future Dredging needs.
2. Phase 2...Keep ALL of Phase 2, with the exception of "Trash Rack at Culverts".
This rack will not be needed due to our NEW CAPABILITES to do work as needed and weed control at "ZERO" future cost.

PHASE 2 also includes, the Contractor will dredge the lake up to 1 mile. This will give us information and training needed to observe and maintain future work being needed. I volunteer my time to be a part of this learning curve.

Phase 1 & 2... sets, installs and constructs ALL needed structures to contain / remove and store silt.... and includes the dredging of 1 mile of Dunlap.

3. Phase 3...Dredging. Complete change of Phase 3....

- a) Purchase 10-inch Horizontal Cutter Dredger...refurbished.
- b) Possible purchase a "transfer barge"
- c) Purchase "EcoHarvester...to control weeds (act as transfer Barge) picture included.
- d) Build E8 docking area for equipment.
- e) If no volunteers available....labor costs included in plan.

Total cost of Board presented plan

With NO accommodations or funds for future needs\$4,667,499.00

This Alternate plan,

Which includes covering ALL problems for future needs. ...\$2,408,907.00

WITH A TOTAL SAVINGS of.....\$2,258,592.00

**Note: set \$300,000 into an account to fund future equipment and labor costs..
Still \$2 MILLION DOLLARS AHEAD**

Dredge Brokers

Dredge Brokers - Used Dredgers (Dredges) For Sale

copy**Dredge
Brokers**

- ↳ Hydraulic Dredges
- ↳ Mechanical Dredges
- ↳ Hopper Dredges
- ↳ Pumps & Dredge Components
- ↳ Pipeline Components
- ↳ Barges
- ↳ Work Boats
- ↳ Support Equipment

[Home](#)[List Your Equipment](#)[About Brokers](#)[Contact Us](#)**160322-DH**[More Photos](#)

10-inch Horizontal Cutter Dredger IMS 4010 - Refurbished

This 10-inch Horizontal Cutter Dredger IMS 4010 was built in 1990 and has just been refurbished in 2016. It has been sand blasted and repainted with paint directly from IMS Dredge. Painted back to original paint specification. Ability to transport dredge depending on location in the U.S.A.

Located in the State of Illinois, USA

Select Your Currency: United States-USD ☒

Price in Seller's Preferred Currency: USD 150,000

Price in Your Preferred Currency: USD 150,000

* Approximate; see Terms of Use

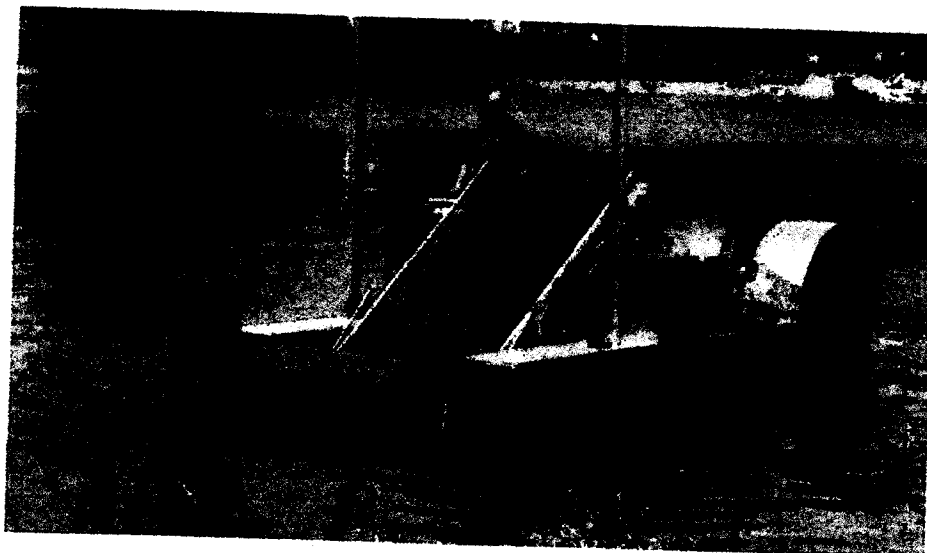
Technical Details

Principal Dimensions and Characteristics

Year Built:	1990	
Length:	10.97 m	36.00 feet
Width:	2.59 m	8.5 feet
Height:	2.80 m	9.4 feet
Dry Weight:	4,309 kg	9,500 lbs.

EcoHarvester - Lake Weed Harvester, Cutter, Puller & Skimmer

Lake Weed Cutter boat harvesting



4 / 5

Features / Benefits

Affordable – One-third the price of traditional harvesters

Eco-friendly – No chemicals or dredging

Easy to operate – One-person operation from start to finish

Versatile – Pulls, cuts, & skims weeds in shallow water

Multi-purpose – Gathers floating debris and algae

Quality engineered – Well built & lifetime warranty on hull

Eco Harvester

The Eco
Harvester

pulls weeds up from the roots, harvesting them to be recycled and reused as mulch or animal feed.

Its an environmentally friendly way to harvest aquatic plant and the only harvester that works in this manner. ALL other aquatic weed harvesters cut the weeds! It is 95% effective at uprooting milfoil, hydrilla, celery grass, water chestnut, and most other aquatic plants prevalent in ponds, lakes, rivers, channels, canals, and beachfront property.

EcoHarvester -
Lake
Weed
Harvester
, Cutter,
Puller &
Skimmer

\$64,999.00

Board Proposal		(Figures from Boards' "Cost sheets")				ALTERNATE PROPOSAL			
Planning & Permitting		QTY	Unit	Total	Cost			Cost	
Final Engineer / permits / bids					\$97,500			\$97,500	
Legal					\$40,000			\$40,000	

Board Proposal			(figures from Boards' Cost sheets)			ALTERNATE PROPOSAL		
Phase 2: Build Silt Ret-Basin			QTY	Unit	Total	Cost		Cost
Aggregate surface and perimeter			6.55	sy	1111	\$7,278	Same	\$7,278
Geotextile separation fabric			1.6	sy	1111	\$1,778	Same	\$1,778
Seeding			1200	ac	3	\$4,157	Same	\$4,157
Mulching			66.5	1k-sf	151	\$10,035	Same	\$10,035
Excavation			2.38	bcy	19836	\$47,210	Same	\$47,210
Hauling			3.9	lcy	19836	\$77,360	Same	\$77,360
Grading at dump site by dozer			2.38	lcy	19836	\$47,209	Same	\$47,209
Compaction, sheepfoot.			1.26	ecy	1625	\$2,047	Same	\$2,047
Trash Rack E. Lake box culverts			122	sf	900	\$110,000	DELETE	
Floating baffle to trap floatables			12000	ls	1	\$12,000	Same	\$12,000
Dredging mobilization, 1st time			150000	ea	1	\$150,000	Same	\$150,000
Install permanent dredge discharge			50	ls	1	\$50,000	Same	\$50,000
Dredge lake (up to 1 mile)			4.5	cy	17760	\$79,920	Same	\$79,920
Riprap			8.5	cy	32085	\$272,723	Same	\$272,723
Project Management						\$50,000	Same	\$50,000
PLAN TOTAL			shows Total	Ph #2		\$671,717		
			wrong	actual	(+50,000)	\$621,717	diff... (- \$110,000)	
Phase 3: Dredging			(figures from Boards' Cost sheets)			PLAN TOTAL		
Dredging mobilization, 10 times			100000	ea	10	\$1,000,000	New plan	New plan
Dredge lake (up to 1 mile)			4.5	cy	89185	\$401,333	Cancel	
Dredge lake (Coves C & D)			7	cy	21317	\$149,219	Cancel	
Cleanout of Fogle for 10 dredgings			10.88	cy	94841	\$1,031,870	Cancel	
Fine grading/site restoration-Fogle's			10000	ls	1	\$10,000	Cancel	
							Cancel	
							equipment needed	
							Labor costs 5 yrs	
							Clean out Fogle Property	
							diff... (-\$1,695,422)	
							Insurance ??	??
							See New Plan Phase 3	
							DETAILS attached	

Board Proposed

Page 8