

**Bone Lake Management District
Commissioners Meeting
Saturday, February 18, 2023
9:00 a.m. Online via Zoom
Minutes FINAL**

Cary Olson called the meeting to order at 9 a.m.

Roll Call

- Cary Olson, Chair
- Shelley Rose, Vice Chair
- Karen Engelbretson, Secretary
- Alex Chorewycz, Treasurer
- Mike Musial
- Doug Route, Polk County Supervisor, District 2
- Andy Brown, Town of Bone Lake
- Jeff Traynor, Town of Georgetown

Guests present:
Bob Boyd

Cary Olson called the meeting to order at 9:00 a.m.

Motion: Motion to approve minutes of November 19 meeting. Rose/Musial. Carried.

Polk County Report - Doug Route

Doug Route not present.

Town of Bone Lake Report - Andy Brown

Working on getting 250th paved by June 30. A new way of paving roads may be used, more expensive but better end result. The Town is waiting for a quote. Three grants may be applied so must be completed by June 30. Two candidates are running against incumbants on the Town Board; both are CAFO supporters. Not running against Andy.

Town of Georgetown - Shelley Rose

Shelly has been attending the Georgetown town board meetings. Shelley was unable to attend the meetings.

Treasurer's Report - Alex Chorewycz

Alex sent a financial report. A \$10,___ difference. Payments to Cheryl Clemens. No other changes since our November meeting.

Grants Update - Cary Olson

Awarded \$8,000 CBCW grant, leaving \$2,667 to be paid by Bone Lake for CBCW.
CLP three-year grant. Another \$26,582 will be paid this year. Total \$53,162 for two years, with one year remaining.
\$79,744, the grant is \$78,000.

A new grant for a CD3 Cleaning Station will be applied for this year. In the meantime, a small station with a bleach station will be installed at the south landing.

Agenda February 18, 2023 Commissioners Meeting

1. Roll Call
 2. Approve Minutes November 19, 2022 Meeting
 3. Polk County Report — Doug Route
 4. Town of Bone Lake Report — Andy Brown
 5. Georgetown Report — Shelley Rose
 6. Grant update – Cary Olson
 7. Treasurers Report – Cary Olson
 8. Committee Reports
 - a. Boating – Mike Musial
 - b. Watershed — Phil Foster/Shelley Rose
 - c. Waterfront Runoff —
 - d. Aquatic Plant Management — Bob Boyd
 - e. Fisheries — Bob
 - f. Wildlife and Natural Beauty — Karen Engelbretson
 - g. Communication — Karen Engelbretson
 9. Old Business
 - Annual Meeting Location - Bone Lake Lutheran Church:
Discuss improvements needed for a smoother process
 10. New Business
 - Review: Zebra Mussel highlights — Karen/ Bob/Cary
- Adjourn

Extensions were granted for the following grants to December 31, 2023:

- Design for Shoreline and Runoff Control LPL176921.1 \$10,000
- Bone Lake Aquatic Life Assessment and Mapping LPL177321.1 \$10,000
- Engaging Owners: Natives for Restoration and Stabilization LPL179021.1 Amount \$4,253.83
- Health Lakes Projects LPR67721.1 Amount \$7,000

See attachments for details.

COMMITTEE REPORTS

Boating Safety - Mike Musial

Mike ordered 6 more buoys so they'll be two extras on shore if needed. Buoys will be placed before opening fishing. Also will put in south end dock then which seems to be in OK condition.

Question: Any vehicles going through the ice? No, but trucks have been out on the bay.

Answer: Now 17 inches of ice. Most folks using ATVs to get out on the ice.

Watershed - Shelley Rose

Looking at runoff from Prokop Creek to mitigate phosphorus. Because it's a wetland, Phil Foster has questions out to Cheryl. Info to come. It's a huge tamarack swamp.

Bob Boyd: We've done flow samples and phosphorus samples from Prokop Creek. Some years it doesn't flow at all. Mitigation would be difficult. Mitigation would have to occur at developed areas. Mitigation efforts are not allowed at designated wetlands.

Aquatic Plant Management - Bob Boyd, Cary Olson

We have permits for this year and can treat as planned except the navigation channel at north end and proposed area at the north end. Next year permits will not be allowed to treat areas less than five acres. Wild rice is present which precludes treatment. Sometimes applications go through, sometimes it doesn't. Current treatment is just short of the lagoon entrance. Silt has built up in that area.

Can vegetation be raked? Not sure, it's a large area.

Homeowners could rake or hand-pull around their docks.

In 2024 we cannot treat less than 5 acres with endothall.

Cary: We will find the email and send it out to everyone for treating the north navigation channel.

Bob: If we connect beds 7 and 8, 3 and 4, we can reach 5 acre to allow

Karen: Area 6S is close to a Sensitive area and one of the lake's most productive areas for fish and wildlife.

Bob: We would avoid the bay near Bed 6S.

Question, Shelley Rose. What if we paid to treat the navigation channel without DNR funds. No. The permit would not be approved.

Mike: Maybe we should start discussing a weed harvester.

Bob: On the north end you'd have the same permit issue with the wild rice.

Would rules for the harvester be different than for using Endothall?

Mike: Harvesters are \$125K, from Liquid Waste Technology in New Richmond. I will investigate the cost of a harvester.

Material can be unloaded in various locations, not necessarily at the boat landing.

Karen: Harvester vendors at the convention last year. I will send to Mike.

Cary: Results with Endothall are not predictable every year.

Karen: Endothall has an effect on other plants. I've seen a great reduction of plants in my area.

Bob: Turions have been reduced. Over a decade CLP would return to previous levels. Check whether a harvester can be used on the north end. Get a survey and find out if wild rice is present today.

Mike: I haven't seen wild rice there in more than 10 year. It was in the northwest corner.

Bob: The survey was done 15 years ago showing wild rice present.

Shelley: Be sure to call it a navigation channel.

Mike: Will check it out and move along.

Fisheries, Wildlife & Natural Beauty - Bob Boyd

Karen: In combination with Fisheries, the Wildlife and Natural Beauty Community is planning activities to engage young people in learning about the creatures living in, on, and around Bone Lake, promote understanding of sensitive areas, engage youth in protecting these areas and plant/animal communities, inspire future volunteerism.

Karen presented several objectives. Kids would get a net to capture creatures from the bottom, and a magnifier to look at them. Show people how to observe wildlife in sensitive areas. Contests, share findings, events. The committees will talk about all of this in a Zoom meeting. Our recent sensitive area survey has identified benthic invertebrates.

Kids would use dip nets and eye loupes to look at stuff. Talking with an educator would help us identify different learning styles so we have something for everyone. Events would be scheduled in June or July, weekends.

A booklet on the Sensitive Areas is in the works to help

Also, a booklet on trees in the lakeshore landscape is being planned. Maintaining the high canopy and understory can help control runoff to the lake.

Communications

Shelley has gone through the District documents and renamed them for a database so they can be accessed from the new website. The server can be a repository for all District documents. Old documents not digital can be scanned and added to the directory structure.

OLD BUSINESS

North Landing Parking Update - Cary Olson

Andy was looking at different firms to do planning and Cooper Engineering proposed four options. One option was chosen. 150x85 ft. rectangle behind the restroom will be graded for a parking area. The driveway entrance will be to the left of the restroom. Would more than double available parking. The layout would allow access to the cleaning station and launch, then route to the parking area. The road in front of the picnic area would be no parking. Cooper Engineering will work with Nick's Excavating and Town of Bone Lake. The District pays for part of the project, and the Town of Bone Lake will provide gravel and pay for the \$14K engineering study. Tree clearing may begin while the ground is still frozen. Grading will be done when frost is out.

Andy Brown: There's no frost in the ground. Mike Musial says the same.

Annual Meeting Location

Our location options are limited. Wilkins or Bone Lake Lutheran Church. Unity School is an option but it's far away. BrowTine has a big area, but would need to book ahead. Would be fine if the bar wasn't open, and microphones, etc. are in place. Zoom isn't needed this year but at Bone Lake Lutheran Church we could live stream on Facebook to provide accessibility, but voting would not be available except in person. Microphones would be improved. Limit time for comments and control who speaks. Will need help to enforce the rules. Attendees need to join the meeting in the sanctuary to fully attend the meeting. Food isn't allowed in the sanctuary. Show people how to use the microphone. Walking up to a podium is preferred over passing a microphone. Impose a 3-minute limit. Deb Dawson would be willing to watch timing. Podium should face the room with someone conducting the time limit. Will work on microphones with Chad.

To Andy Brown: There's no problem for the church to host the meeting on August 12th. Andy will request the date with the Church secretary. 8:00am - 1pm.

Shelley and Karen will co-chair a committee to plan the meeting. Deb Dawson will help.

Motion: The 2023 Annual Meeting will be held at Bone Lake Lutheran Church. Cary/Rose. 3 in favor, one opposed. Motion carries.

Zebra Mussel Forum - Cary Olson

Polk County, Washburn, and Burnett Counties produced a ZM forum. Area lakes including Deer Lake, Wapogasset, Balsam, Big and Little MacKenzie lakes and the St. Croix River have zebra mussels, including experts and people from lake groups in the area. A recording of the forum is available on the Land and Water Resources Dept. There are no methods proven effective to control Zebra Mussels. Calcium content in the lake makes Bone Lake vulnerable to ZM populations. We must do the best we can to prevent ZM from entering Bone Lake. Which supports our decision to install cleaning stations at the public landings. Wilkins and Rest Point boat landings do not have cleaning stations.

Balsam Lake is installing 5 cleaning stations. How is cleaning station usage enforced? CBCW personnel will watch and record those that do not use the cleaning station and we will work with the Polk County Sheriff for enforcement.

Coordinated efforts between lakes for tournaments may be planned.

Bob Boyd: The landing camera can be adjusted to monitor the cleaning station use. CBCW personnel should not have to confront boaters to enforce use of the cleaning station. If citations are issued, CBCW monitors may need to be in court.

Cary: We can add surveillance cameras around the launch area. Other vandalism has occurred that may be prevented by the presence of cameras.

Karen: Balsam has deputized a water patrol officer to work on Balsam Lake.

Bob: It's possible to hire a deputy to enforce rules on the lake.

Mike: We proposed a water patrol officer but homeowners voted it down. Can the Lions help contribute to surveillance system costs at the landing?

Cary: Half Moon Lake District is interested in what we're doing about Zebra Mussels. Half Moon is spending a lot of money on controlling Eurasian water milfoil. They have a solar powered CD3 cleaning station. The property owners use the station but they are concerned about others launching their boats.

Cary: We should have a forum with the area lakes to discuss what we're doing to prevent AIS.

Put a link on Bone Laker to let people know about the risk of invasives.

Before open water season, let property owners know about ZM prevention. Get people to hang a brick to your dock about a foot off the bottom of the water. If we get them, there isn't anything we can do about it.

We need to get property owners to look for them, especially if you buy equipment from another lake.

Karen: The Laker newspaper is receptive to publishing PCALR-produced messaging about prevention.

Meeting adjourned 10:30 a.m.

Respectfully submitted,

Karen Engelbretson

Secretary

Bone Lake Management District

April 4, 2023

2023 Meeting Dates

April 22	Budget
June 17	Budget, Annual Meeting Planning
August 12	Annual Meeting
October 14	Grants

Bone Lake APM Plan Amendment

June 2023

Amends 2020 Bone Lake Aquatic Plant
Management Plan

Proposed Plan Changes

- Action changed: use mechanical (harvesting) rather than chemical (early season Endothall) method to control curly leaf pondweed .
- This action is in Goal 3.
- Harvesting is also a potential action in Goal 1.
- Actions for remaining plan goals do not change.
- Goal 1 and Goal 3 do not change.
- Goal 3: The objective to remove phosphorus with CLP control is reinstated from previous plans.



Why is amendment needed?

- The WI DNR will no longer allow Endothall treatment for plant treatment areas < 5 acres.
- Bone Lake CLP treatment beds ranged from 1.8 to 3.1 acres.
- 5 acre minimum applies for DNR permits (always required regardless of funding source)
- Expanding Bone Lake treatment areas to meet 5 acre minimum does not make sense because of drop-offs adjacent to the beds.

GOAL 1. MAINTAIN RECREATIONAL USES IMPORTANT TO LAKE RESIDENTS AND USERS WHILE PRESERVING IMPORTANT NATIVE AQUATIC PLANT FUNCTIONS AND THEIR VALUES.

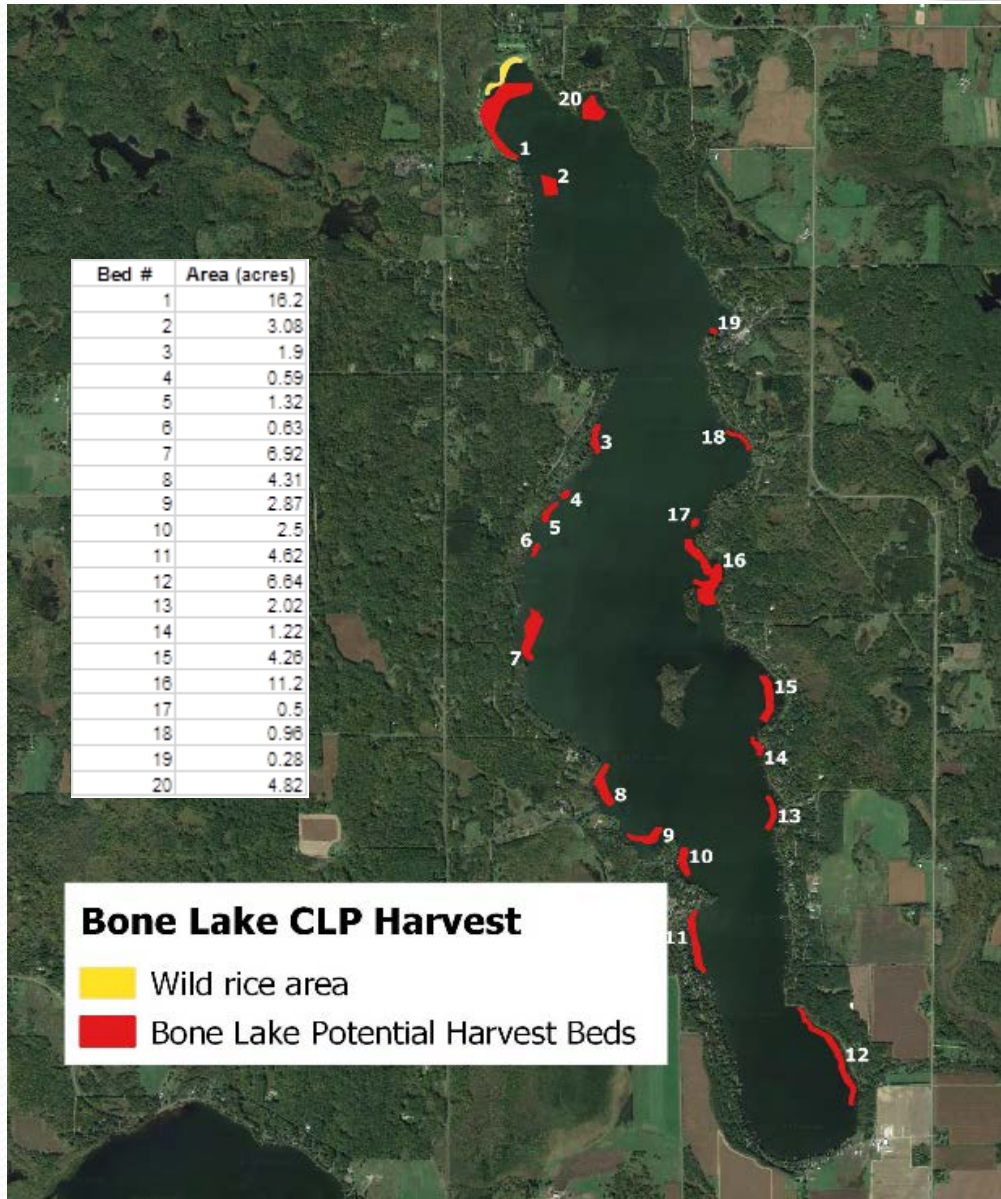
OBJECTIVES

- Maintain summer navigational channels where navigation becomes severely impaired.
- Allow individual corridor summer swimming and boat access where severe nuisance conditions occur.
- Protect native plant populations.
- Harvesting could be used for navigation channels later in the summer if purchased for CLP management.
- Harvesters cannot operate in water depths <3 feet. Not intended to reach individual docks.
- Impacts of harvesting limited to area cut – no chemical drift.

GOAL 3. MANAGE CURLY LEAF PONDWEED TO MINIMIZE NAVIGATION PROBLEMS AND PROTECT NATIVE PLANT POPULATIONS.

OBJECTIVES:

- Protect native plant populations.
- Improve spring navigation.
- Improve water quality by removing phosphorus from the lake.
- Reduce turion density in targeted beds.
- Continually improve CLP management on Bone Lake.
- No chemical drift, so less impact on natives.
- Harvesting prioritized based on navigation improvements and getting the most CLP for P removal (tracked).
- Turion density would be measured every five years along with point intercept survey.



Harvesting Logistics: Bed ID

Harvesting Logistics: Equipment

Equipment

- Harvester (7-10 ft cutter blade)
- Conveyor
- Trailer
- Truck or tractor (purchase or rely on others to transport harvester and collected loads, not included in cost estimate)

Capital costs: \$250,000 (est. over 10 years)

DNR Waterways Commission

Grants up to 50%



Harvesting Logistics: Operations

- Storage and O&M of harvesting equipment
- Transportation and disposal of aquatic plant material
 - Select off-loading sites to minimize transport time
 - Identify nearby disposal locations
 - Available trucks for hauling
- Staffing harvesting operations
 - Harvesting Coordinator: Mike Musial (select and prioritize harvesting sites, timing for harvesting, coordinate scheduling and payroll)
 - Harvesting Operators
 - Payroll
- Insurance
 - Workers compensation
 - Liability
 - Equipment
- Permitting
 - Obtain WDNR APM Harvesting permit

Annual Operation Costs: \$10,000 - \$20,000 (est.)
Not grant eligible
CLP annual chemical cost - operations and monitoring: \$31,000 (50% grant) - 18.5 acres

Proposed Schedule

Schedule

- Release for public review July 3, 2023
- Public review period ends August 7, 2023
- Annual meeting presentation August 12, 2023
- Send to DNR for review August 15, 2023
- WDNR Waterways grant app. Sept. 1, 2023
Nov. 1, 2023

Notice for public review – post amendment on web site

- Postcard mailed for annual meeting
- Email
- Newspaper

Intro

The Bone Lake Management District completed the Bone Lake Aquatic Plant Management Plan with the help of an advisory committee in April 2020. The plan was approved by the Wisconsin Department of Natural Resources on May 15, 2020. This plan amendment reflects a major change in how curly leaf pondweed is managed on Bone Lake with a shift from chemical treatment to harvesting. Curly leaf pondweed management is included in Goal 3. With a change to harvesting CLP, there is also an option to use harvesting as a method for maintaining navigation channels when impaired by native plant growth. This is covered in Goal 1. These goals, objectives, and actions are detailed in this plan amendment. No other changes are made to the 2020 Bone Lake Aquatic Plant Management Plan. The plan amendment implementation is expected in 2024 or 2025 depending upon budgeting and logistics.

5 acres

A recent change to WDNR policy requires a minimum bed size of 5 acres for permits for endotox treatment beginning in 2024.^[1] This requirement applies regardless of funding source.

Cheryl

Cheryl Clemens
Harmony Environmental
715-225-0690 (mobile)

2
DRAFT DOC.
FOR BOARD REVIEW

	Budget- FYE 2023 1/1/2023 thru 12/31/2023	Rev & Exp 1/1/2023 thru 12/31/2023 (EST.)	Rev & Exp 1/2024 thru 12/31/2024 PROP.
Towns of Georgetown and Bone Lake	\$ 67,000.00	\$ 67,000.00	\$ 67,000.00
Frandsen Bank-Interest	\$ 24.00	\$ 1,284.00	\$ 1,284.00
Newsletter Ads	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00
	\$ -	\$ -	\$ -
Grants	\$ 60,000.00	\$ 35,054.00	\$ 30,000.00
Other-maps-owner cost share & Misc.	\$ 500.00	\$ 500.00	\$ 500.00
Total Revenue	\$ 132,024.00	\$ 108,338.00	\$ 103,284.00
Expenditures			
Lake Improvements			
APM Projects (includes CBCW)	\$ 15,000.00	\$ 21,230.00	\$ 21,500.00
CLP Treatment (Chem Spraying)	\$ 27,000.00	\$ 19,600.00	\$ -
Decontamination Stations	\$ 15,000.00	\$ 3,975.00	\$ 40,000.00
Dock-South Landing	\$ 10,000.00	\$ -	\$ -
Consulting	\$ 2,000.00	\$ 1,950.00	\$ 2,000.00
Equipment Maintenance	\$ 2,000.00	\$ 1,500.00	\$ 2,000.00
Sub-Total Lake Improvements	\$ 71,000.00	\$ 48,255.00	\$ 65,500.00
Lake Management Projects			
Watershed projects	\$ 10,000.00	\$ 560.00	\$ 5,000.00
Waterfront runoff projects	\$ 10,000.00	\$ 1,000.00	\$ 2,500.00
North Landing parking lot improvements	\$ -	\$ 17,000.00	\$ -
Septic Incentives	\$ 10,000.00	\$ 5,000.00	\$ 5,000.00
Evaluation and Studies	\$ 3,000.00	\$ 500.00	\$ 3,000.00
Wildlife and Natural Beauty	\$ 8,000.00	\$ 3,500.00	\$ 5,000.00
Fisheries	\$ 500.00	\$ -	\$ 500.00
Communications/Education/Recognition	\$ 1,500.00	\$ 1,000.00	\$ 1,000.00
Sub- Total Lake Mgmt. Projects	\$ 43,000.00	\$ 28,560.00	\$ 22,000.00
Total Lake Improvements	\$ 114,000.00	\$ 76,815.00	\$ 87,500.00
Public Safety			
Buoy Maintenance	\$ 5,000.00	\$ 3,700.00	\$ 5,000.00
Safety Patrol	\$ -	\$ -	\$ -
Total Public Safety	\$ 5,000.00	\$ 3,700.00	\$ 5,000.00
Information and Education			
Newsletter	\$ 8,500.00	\$ 8,300.00	\$ 9,000.00
Dues	\$ 775.00	\$ 775.00	\$ 775.00
Website	\$ 1,000.00	\$ 3,560.00	\$ 1,000.00
Meetings/Workshops	\$ 2,500.00	\$ 2,700.00	\$ 3,000.00
Total Information and Education	\$ 12,775.00	\$ 15,335.00	\$ 13,775.00
Administration			
Insurance	\$ 2,500.00	\$ 1,850.00	\$ 1,900.00
Donations/Subscriptions	\$ 2,500.00	\$ 2,450.00	\$ 2,500.00
Misc office expense	\$ 750.00	\$ 300.00	\$ 750.00
Total Administration	\$ 5,750.00	\$ 4,600.00	\$ 5,150.00
Total expenditures	\$ 137,525.00	\$ 100,450.00	\$ 111,425.00
Beginning Cash Balance	\$ 238,237.76	\$ 238,237.76	\$ 246,761.84
Ending Cash balance	\$ 232,736.76	\$ 246,125.76	\$ 238,620.84
Cash Balance - x/xx/2023			
Checking: bal.book to bank-x/xx/2023	\$ 114,097.29	\$ 114,097.29	Estimate as of June 30
Money Market Savings: bal. book to bank-x/x/2023	\$ 155,346.23	\$ 155,346.23	Estimate as of June 30
Total: balanced book to bank	\$ 269,443.52	\$ 269,443.52	Estimate as of June 30
Designated Funds approved for current Fiscal Year:	\$ 219,750.00	\$ 219,750.00	
Designated Funds used in current Fiscal Year:	\$ (20,975.00)	\$ (20,975.00)	
Designated Funds reserved for next Fiscal Year:	\$ 198,775.00	\$ 198,775.00	
Additional Funds approved for next Fiscal Year:	\$ -	\$ -	
Desg. Funds balance as of 6/30/2023 - Total:	\$ 198,775.00	\$ 198,775.00	

BLMD SURPLUS FUNDS - DESIGNATED FUNDS (DF)

FISCAL YEAR: 2023 **Approved DF**
Balance:
\$250,000

Approved Designated Funds	DF reserved detail	DF used this FY
Cash Flow Reserve	\$ 50,000.00	\$ -
Decon. Stations Maintenance	\$ 9,750.00	\$ -
New Dock - South Landing	\$ 10,000.00	\$ -
Decon Station - South Landing	\$ 8,000.00	\$ 3,975.00
Emergency Fund for Aquatic Invasive Species	\$ 20,000.00	\$ -
2022 North Landing Parking Lot Improvement	\$ 17,000.00	\$ 17,000.00
Additional Curly Leaf Pondweed Control (5 years)	\$ 90,000.00	\$ -
2023 Septic Incentives (6 additional)	\$ 15,000.00	\$ -
Designated Funds Total:	\$ 219,750.00	
DF used in current FY:		\$ 20,975.00
Unused Designated Funds balance this FY and as of: 6/30/2023:	\$ 198,775.00	

BLMD USE OF TAX LEVY - ANNUAL COSTS REV: 6/23/2023

Annual costs net of Grant Payments	Includes Harvester	No Harvester	Notes
Aquatic Plant Management Activities			
Cameras (2 landings), Internet Service, Portable Toilet	\$8,700	\$8,700	incl:Accountant/reporting expenses
District portion of CLP control	\$0	\$17,400	
District portion of CBCW	\$3,500	\$3,500	
Decontamination Stations maintenance	\$3,000	\$3,000	
Consultants expense	\$2,000	\$2,000	
Harvester operations	\$33,000	\$0	
Harvester Loan repayment on \$25,000 over 7 years	\$4,528	\$0	
Watershed			
Current established project maintenance	\$500	\$500	
District portion of new project	\$2,000	\$2,000	
Waterfront Runoff			
District portion for projects and miscl. Expenses	\$2,500	\$2,500	
Septic Incentives	\$5,000	\$5,000	
Evaluation and Studies - District portion	\$500	\$500	
Wildlife and Natural Beauty - District portion	\$1,000	\$1,000	
Fisheries - District portion	\$500	\$500	
Communications & Recognition awards, mailings	\$1,000	\$1,000	
Boat & Water Safety			
Buoys - placement/purchase/maintenance	\$3,000	\$3,000	
Dock and Landing maintenance	\$2,000	\$2,000	
Information and Education			
Newsletter (net of Advertising Revenue)	\$4,500	\$4,500	
Dues	\$750	\$750	
Website	\$1,000	\$1,000	
Meetings and Workshops (includes annual meeting)	\$3,000	\$3,000	
Administration			
Insurance	\$11,500	\$1,900	
Donations	\$2,500	\$2,500	
Misc. Office Expense	\$750	\$750	
Total:	\$96,728	\$67,000	

HARVESTER LOAN PMTS

Loan Amount: \$25,000.00
 Interest Rate: 7.00%
 Term (years) 7
 Monthly Pmt. \$377.32
 Annual Pmt. \$4,528
 Total Interest: \$6,695