

Burden Lake Conservation Association

December 16, 2022

Kate Kornak, Deputy Permit Administrator
NYSDEC Region 4 Headquarters
1130 N Westcott Rd
Schenectady, NY 12306

Re: Burden Lake Conservation Association (BLCA) 2022 Harvesting Summary

DEC Permit 4-3830-00067/00006

Dear Ms. Kornak

As required by the DEC permit referenced above, the BLCA is submitting the summary of harvesting operations for 2022. The following items are included in the summary:

- Summary Report of Harvesting Operations 2022
- Map of Harvesting Locations for Third Burden Lake
- Map of Harvesting Teams Area Assignments
- Daily Harvesting Date Collection Forms 2022 (7total forms)

Please contact me at 518 674-6071 or scarlatal@icloud.com if you have any questions or need additional information.

Sincerely,



Steven Scarlata, Vice President

Burden Lake Conservation Association

SUMMARY REPORT OF HARVESTING OPERATIONS 2022
BURDEN LAKE CONSERVATION ASSOCIATION
THIRD BURDEN LAKE
DEC PERMIT ID-#4-3830-00067/00006

The Eco Harvester weed harvester, purchased by BLCA at the end of 2018, was delivered and put into service in June of 2019. This report discusses harvesting operations conducted in the summer of 2022. Previous reports were submitted for 2019, 2020 and 2021.

BLCA worked with the New York State Department of Environmental Conservation and obtained renewal of the required permit to operate the harvester within the Third Burden Lake. The renewed permit was issued March 19,2021 and expires on September 30,2023.

Twelve BLCA members are trained as Eco Harvester operators. There are five teams of operators designated as teams T-1, T-2, T-3, T-4, and T-5. See attached map which identifies the harvesting territory of each team.

In 2022, the Eco Harvester has again proven to be effective in the removal of nuisance weeds of all types, especially when it is employed by experienced and devoted operators.

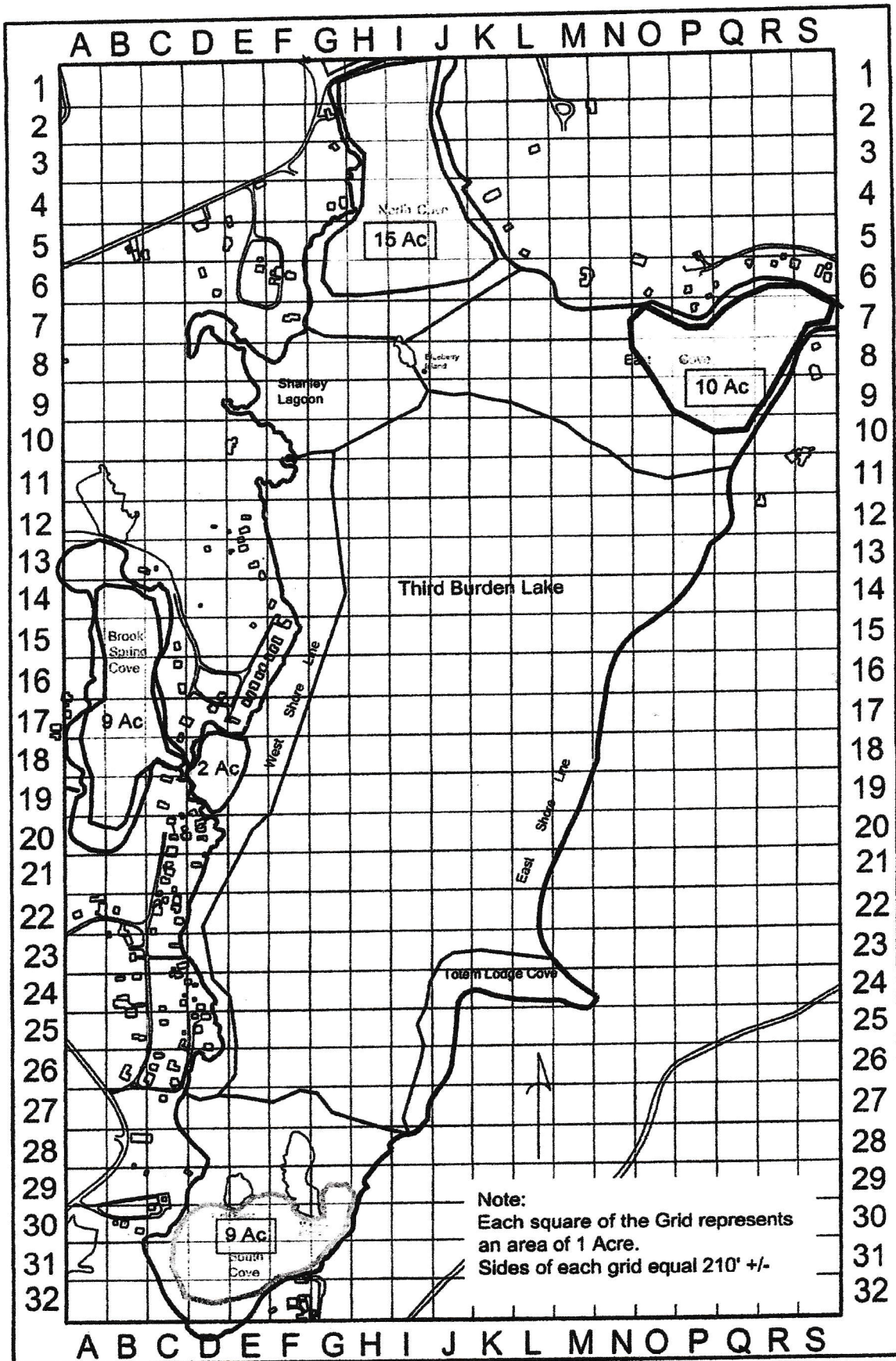
In addition to harvester operations, the Burden Lake Conservation Association contracted a licensed herbicide applicator to treat curly pond weed.

In 2021 a licensed herbicide applicator was employed to treat Eurasian Water Milfoil. In 2022, minor amounts of Eurasian Water Milfoil were discovered. These infestations were removed by harvesting with the Eco Harvester.

The Eco Harvester was employed from mid-June through the end of September to control aquatic plant growth, especially in the shallow areas and coves of the lake. Starting in mid-June into July, curly pond weed was the primary invasive weed targeted. As the season progressed into July and August, Eurasian Water Milfoil was dominant and became the primary target for harvesting.

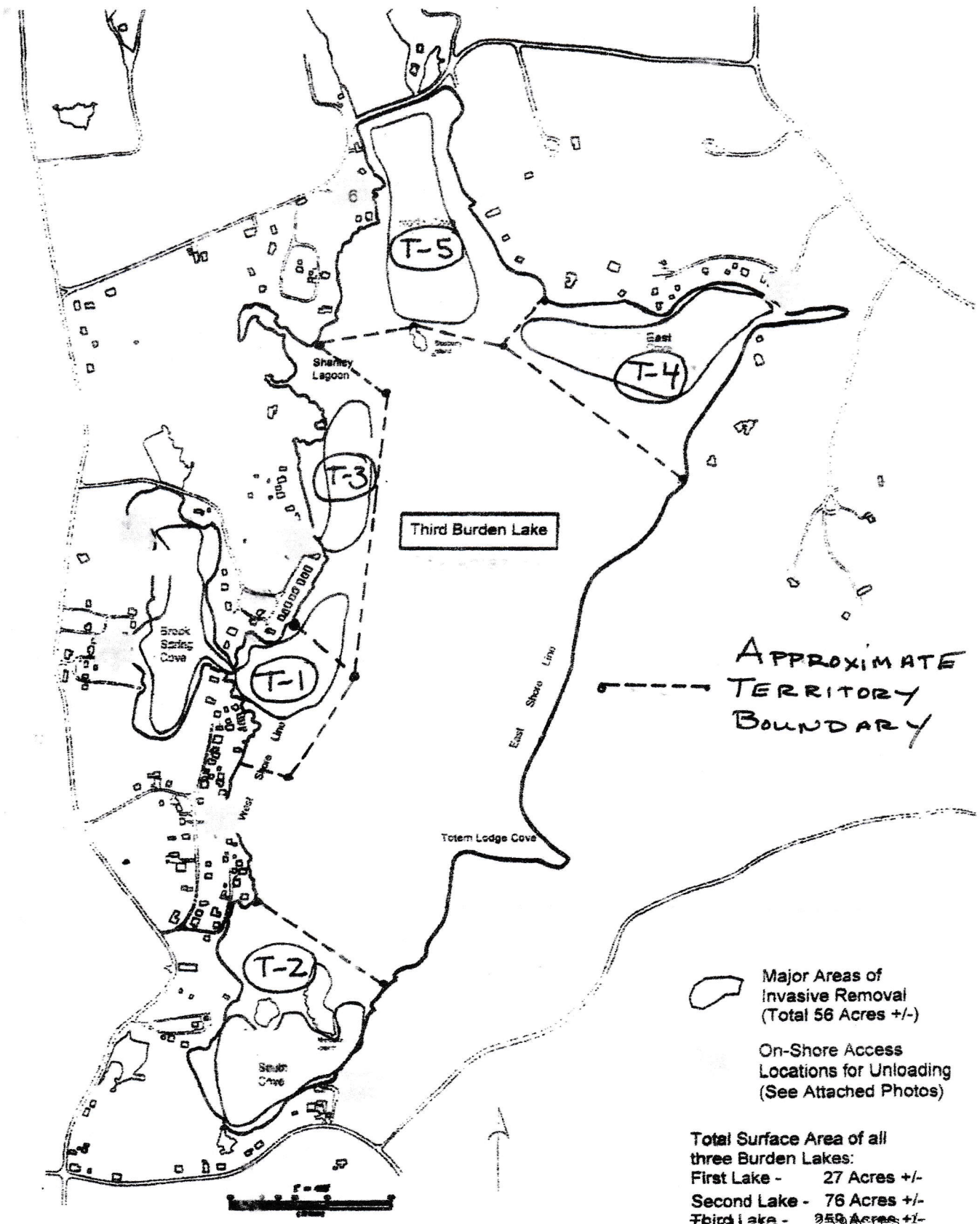
In mid to late June, a significant growth of Filamentous Algae was evident, in Brookspring cove, primarily, and in other spots throughout the lake. The Eco Harvester was effective in capturing the algae when operated in skimming mode.

Throughout the summer the harvester was employed to keep boating lanes in coves clear. As in 2020 and 2021, limited growths of Water Chestnut were discovered in Brookspring Cove. These were eliminated by hand harvesting from row boats.



Third Burden Lake - Milfoil Treatment Areas

Rev 11/11/19



Major Areas of Invasive Removal (Total 56 Acres +/-)

On-Shore Access Locations for Unloading (See Attached Photos)

Total Surface Area of all three Burden Lakes:

First Lake -	27 Acres +/-
Second Lake -	76 Acres +/-
Third Lake -	259 Acres +/-

Map of Third Burden Lake Indicating Most Total 362 Acres +/- Critical Areas of Invasive Weed infestations

Burden Lake Conservation Association
Harvester Data Collection Form

Collection Date: 6/16/22

Harvester Operator: <u>Cioffi/SCARLATA</u>		Assistant:	
Disposal Team: <u>SAME</u>		Offload Site: <u>BLCA CLUBHOUSE</u>	
Harvesting Start Time: <u>8 AM</u>		Harvesting End Time: <u>12 NOON</u>	
Weather Conditions (circle one or write in) <u>Sunny</u> / Overcast / Raining / Other:		Average Air Temperature: <u>80°</u>	
Daily Service Checklist: (Check each item to the right when completed)	<input type="checkbox"/> Lubricate 32 grease fittings	<input type="checkbox"/> Hydraulic fluid level	<input type="checkbox"/> Engine oil level
Environmental Conditions (drought, high water level, recent heavy rain, algae event, etc.)	<u>NORMAL LEVEL</u>	Comments / Observations / Equipment Conditions:	
Harvesting Grid(s) (approx. % affected in each grid)	<u>18, 19, F-E</u>		
Average water depth in grid	<u>2.5 FT - 5 FT</u>		
Plant species harvested (milfoil, pond weed, etc.)	<u>PONDWEED</u>		
Fish or wildlife present in materials (yes/no - if yes, species and amount)	<u>NONE</u>		
Evidence of spawning in grid (yes/no)	<u>NO</u>		
Large amount of sediment in harvested material? (yes/no)	<u>NO</u>		
% of Harvester bin filled	<u>75%</u>		
# of Disposal Runs	<u>1</u>		
# of photos taken (Email photos to dsryan03@gmail.com)	<u>0</u>		

IMPORTANT: To ensure safety of the personnel involved in the harvesting operations AND ensure a long mechanical life of the equipment, the following procedures must be followed for each harvesting session:

1. For safety concerns, there **MUST** be 2 persons on the Harvester at all times.
2. Prior to start of harvesting, **ALL** 32 grease fittings must be lubricated.
- 3.. Engine oil and hydraulic fluid levels must be checked.

Borden Lake Conservation Association
Harvester Data Collection Form

Collection Date: 6/19/22

Harvester Operator: <u>Cioffi/SCARLATA</u>		Assistant: <u>RYAN</u>	
Disposal Team: <u>SAME</u>		Offload Site: <u>BLCA CLUBHOUSE</u>	
Harvesting Start Time: <u>7:30 AM</u>		Harvesting End Time: <u>10:30 AM</u>	
Weather Conditions (circle one or write in) Sunny <input type="checkbox"/> <u>Overcast</u> <input type="checkbox"/> Raining <input type="checkbox"/> Other: <input type="checkbox"/>		Average Air Temperature: <u>75° F</u>	
Daily Service Checklist: (Check each item to the right when completed)	<input type="checkbox"/> Lubricate 32 grease fittings	<input type="checkbox"/> Hydraulic fluid level	<input type="checkbox"/> Engine oil level
	Environmental Conditions (drought, high water level, recent heavy rain, algae event, etc.)		
Harvesting Grid(s) (approx. % affected in each grid)	<u>NORMAL LEVEL</u>		Comments / Observations / Equipment Conditions:
Average water depth in grid	<u>1819, - F-E</u>		
Plant species harvested (milfoil, pond weed, etc.)	<u>2.5 FT - 5 FT</u>		
Fish or wildlife present in materials (yes/no - if yes, species and amount)	<u>PONDWEED</u>		
Evidence of spawning in grid (yes/no)	<u>NONE</u>		
Large amount of sediment in harvested material? (yes/no)	<u>NO</u>		
% of Harvester bin filled	<u>NO</u>		
# of Disposal Runs	<u>50%</u>		
# of photos taken (Email photos to dsryan03@gmail.com)	<u>1</u>		
	<u>0</u>		

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Borden Lake Conservation Association
Harvester Data Collection Form

Collection Date:

6/21/22

Harvester Operator: <i>CIOFFI/SCARLATA</i>		Assistant: <i>RYAN</i>	
Disposal Team: <i>SAME</i>		Offload Site: <i>BLCA CLUBHOUSE</i>	
Harvesting Start Time: <i>8:30 AM</i>		Harvesting End Time: <i>11:00 AM</i>	
Weather Conditions (circle one or write in) Sunny / Overcast / Raining / Other:		Average Air Temperature: <i>70°</i>	
Daily Service Checklist: (Check each item to the right when completed)	<input type="checkbox"/> Lubricate 32 grease fittings	<input type="checkbox"/> Hydraulic fluid level	<input type="checkbox"/> Engine oil level
Environmental Conditions (drought, high water level, recent heavy rain, algae event, etc.)	<i>NORMAL LEVEL</i>		Comments / Observations / Equipment Conditions:
Harvesting Grid(s) (approx. % affected in each grid)	<i>18-19, F-E</i>		
Average water depth in grid	<i>2.5 FT - 5 FT</i>		
Plant species harvested (milfoil, pond weed, etc.)	<i>PONDWEED MILFOIL</i>		
Fish or wildlife present in materials (yes/no - if yes, species and amount)	<i>NONE</i>		
Evidence of spawning in grid (yes/no)	<i>NO</i>		
Large amount of sediment in harvested material? (yes/no)	<i>NO</i>		
% of Harvester bin filled	<i>50%</i>		
# of Disposal Runs	<i>1</i>		
# of photos taken (Email photos to dsryan03@gmail.com)	<i>0</i>		

IMPORTANT: To ensure safety of the personnel involved in the harvesting operations AND ensure a long mechanical life of the equipment, the following procedures must be followed for each harvesting session:

1. For safety concerns, there MUST be 2 persons on the Harvester at all times.
2. Prior to start of harvesting, ALL 32 grease fittings must be lubricated.
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Borden Lake Conservation Association
Harvester Data Collection Form

Collection Date: 6/28/22

Harvester Operator: <u>CIOFFI/SCARLATA</u>		Assistant: <u>RYAN</u>	
Disposal Team: <u>SAME</u>		Offload Site: <u>BLCA CLUBHOUSE</u>	
Harvesting Start Time: <u>7:30 AM</u>		Harvesting End Time: <u>12 PM</u>	
Weather Conditions (circle one or write in) Sunny / Overcast / Raining / Other: <u>Sunny</u>		Average Air Temperature: <u>82°</u>	
Daily Service Checklist: (Check each item to the right when completed)	<input type="checkbox"/> Lubricate 32 grease fittings	<input type="checkbox"/> Hydraulic fluid level	<input type="checkbox"/> Engine oil level
	Environmental Conditions (drought, high water level, recent heavy rain, algae event, etc.) <u>14, 19 A-B</u> <u>LOW WATER</u> <u>18, 19 F-E</u>		
Harvesting Grid(s) (approx. % affected in each grid)	<u>14, 19 A, B, C</u> <u>18, 19 F-E</u>		
Average water depth in grid	<u>2.5 FT - 5 FT</u>		
Plant species harvested (milfoil, pond weed, etc.)	<u>PONDWEED</u> <u>FILAMINOUS ALGAE</u>		
Fish or wildlife present in materials (yes/no - if yes, species and amount)	<u>YES</u> <u>SMALL SUN FISH</u>		
Evidence of spawning in grid (yes/no)	<u>NO</u>		
Large amount of sediment in harvested material? (yes/no)	<u>NO</u>		
% of Harvester bin filled	<u>70%</u>		
# of Disposal Runs	<u>1</u>		
# of photos taken (Email photos to dsryan03@gmail.com)	<u>0</u>		

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1. For safety concerns, there MUST be 2 persons on the Harvester at all times.
2. Prior to start of harvesting, ALL 32 grease fittings must be lubricated.
- 3.. Engine oil and hydraulic fluid levels must be checked.

Borden Lake Conservation Association
Harvester Data Collection Form

Collection Date: 7/13/22

Harvester Operator: SCARLATA/CIOFFI		Assistant: RYAN	
Disposal Team: SAME		Offload Site: BLCA CLUBHOUSE	
Harvesting Start Time: 9 AM - 11 AM		Harvesting End Time:	
Weather Conditions (circle one or write in) Sunny / <u>Overcast</u> / Raining / Other:		Average Air Temperature: 85°	
Daily Service Checklist: (Check each item to the right when completed)	<input type="checkbox"/> Lubricate 32 grease fittings	<input type="checkbox"/> Hydraulic fluid level	<input type="checkbox"/> Engine oil level
	Environmental Conditions (drought, high water level, recent heavy rain, algae event, etc.)		
Harvesting Grid(s) (approx. % affected in each grid)	LOW WATER		Comments / Observations / Equipment Conditions:
Average water depth in grid	14-19 A, B, C		
Plant species harvested (milfoil, pond weed, etc.)	3.0 FT		
Fish or wildlife present in materials (yes/no - if yes, species and amount)	Fil. ALGAE PONDWEED		
Evidence of spawning in grid (yes/no)	NO		
Large amount of sediment in harvested material? (yes/no)	NO		
% of Harvester bin filled	75%		
# of Disposal Runs	1		
# of photos taken (Email photos to dsryan03@gmail.com)	0		

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Borden Lake Conservation Association
Harvester Data Collection Form

Collection Date: 7/22/22

Harvester Operator: <i>SCARLATA/CIDFFI</i>		Assistant: <i>RYAN</i>	
Disposal Team: <i>SAME</i>		Offload Site: <i>BLCA CLUBHOUSE</i>	
Harvesting Start Time: <i>9AM - 11AM</i>		Harvesting End Time: <i>HAM</i>	
Weather Conditions (circle one or write in) <input checked="" type="radio"/> Sunny / <input type="radio"/> Overcast / <input type="radio"/> Raining / <input type="radio"/> Other:		Average Air Temperature: <i>80°F</i>	
Daily Service Checklist: (Check each item to the right when completed)		<input type="checkbox"/> Lubricate 32 grease fittings	<input type="checkbox"/> Hydraulic fluid level
Environmental Conditions (drought, high water level, recent heavy rain, algae event, etc.)		Comments / Observations / Equipment Conditions:	
Harvesting Grid(s) (approx. % affected in each grid)			
Average water depth in grid			
Plant species harvested (milfoil, pond weed, etc.)			
Fish or wildlife present in materials (yes/no - if yes, species and amount)			
Evidence of spawning in grid (yes/no)			
Large amount of sediment in harvested material? (yes/no)			
% of Harvester bin filled			
# of Disposal Runs			
# of photos taken (Email photos to dsryan03@gmail.com)			

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Borden Lake Conservation Association
Harvester Data Collection Form

Collection Date: 7/27/22

Harvester Operator: <u>ZIOFFI SCARLATA</u>	Assistant: <u>---</u>	
Disposal Team: <u>SAME</u>	Offload Site: <u>BLCA CLUBHOUSE</u>	
Harvesting Start Time: <u>930</u>	Harvesting End Time: <u>1130</u>	
Weather Conditions (circle one or write in) <u>Sunny</u> / Overcast / Raining / Other:	Average Air Temperature: <u>85°</u>	
Daily Service Checklist: (Check each item to the right when completed)	<input type="checkbox"/> Lubricate 32 grease fittings <input type="checkbox"/> Hydraulic fluid level <input type="checkbox"/> Engine oil level	
Environmental Conditions (drought, high water level, recent heavy rain, algae event, etc.)	Comments / Observations / Equipment Conditions: 	
Harvesting Grid(s) (approx. % affected in each grid)		<u>LOW WATER</u>
Average water depth in grid		<u>14-19 A, B, C</u>
Plant species harvested (milfoil, pond weed, etc.)		<u>3.0 FT</u>
Fish or wildlife present in materials (yes/no - if yes, species and amount)		<u>ALGAE PONDWEED</u>
Evidence of spawning in grid (yes/no)		<u>NO</u>
Large amount of sediment in harvested material? (yes/no)		<u>NO</u>
% of Harvester bin filled		<u>NO</u>
# of Disposal Runs		<u>75%</u>
# of photos taken (Email photos to dsryan03@gmail.com)		<u>1</u>
	<u>0</u>	

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