

# MOSHAWQUIT LAKE DASH OPERATIONS MANUAL

REFERENCE FIGURES

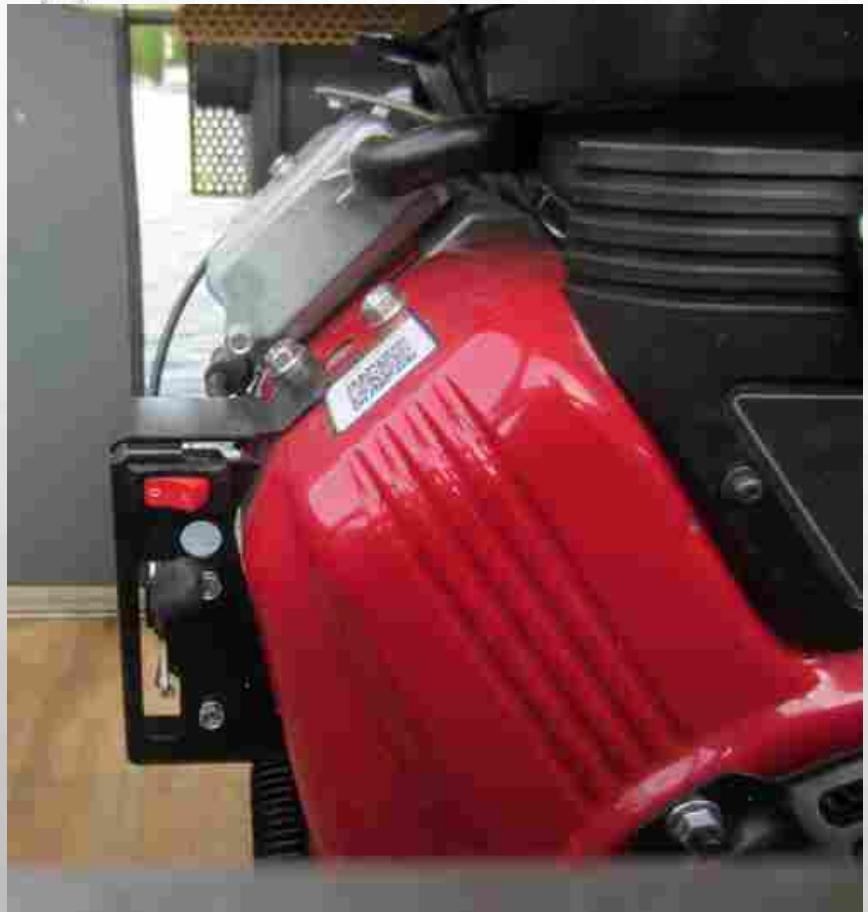
# FIGURE 1



## FIGURE 2



# FIGURE 3



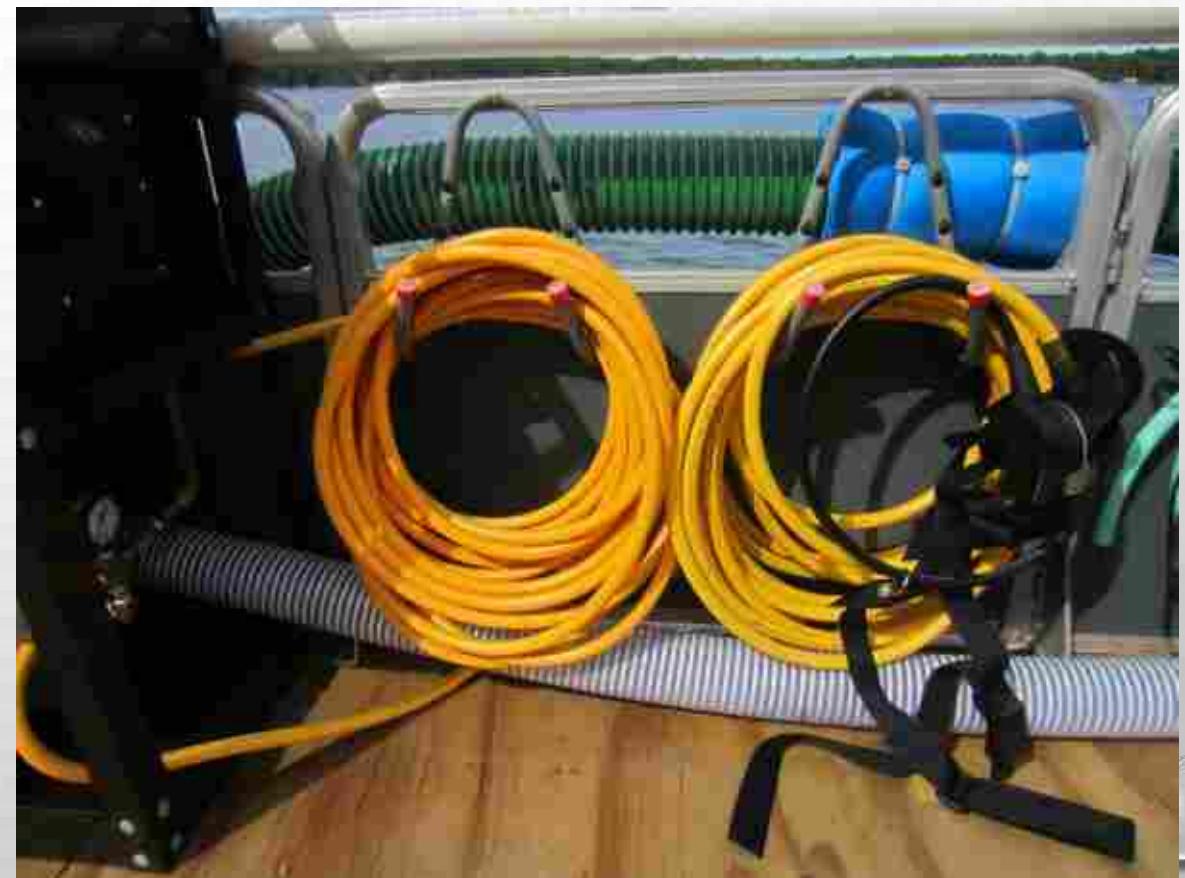
# FIGURE 4



# FIGURE 5



# FIGURE 6



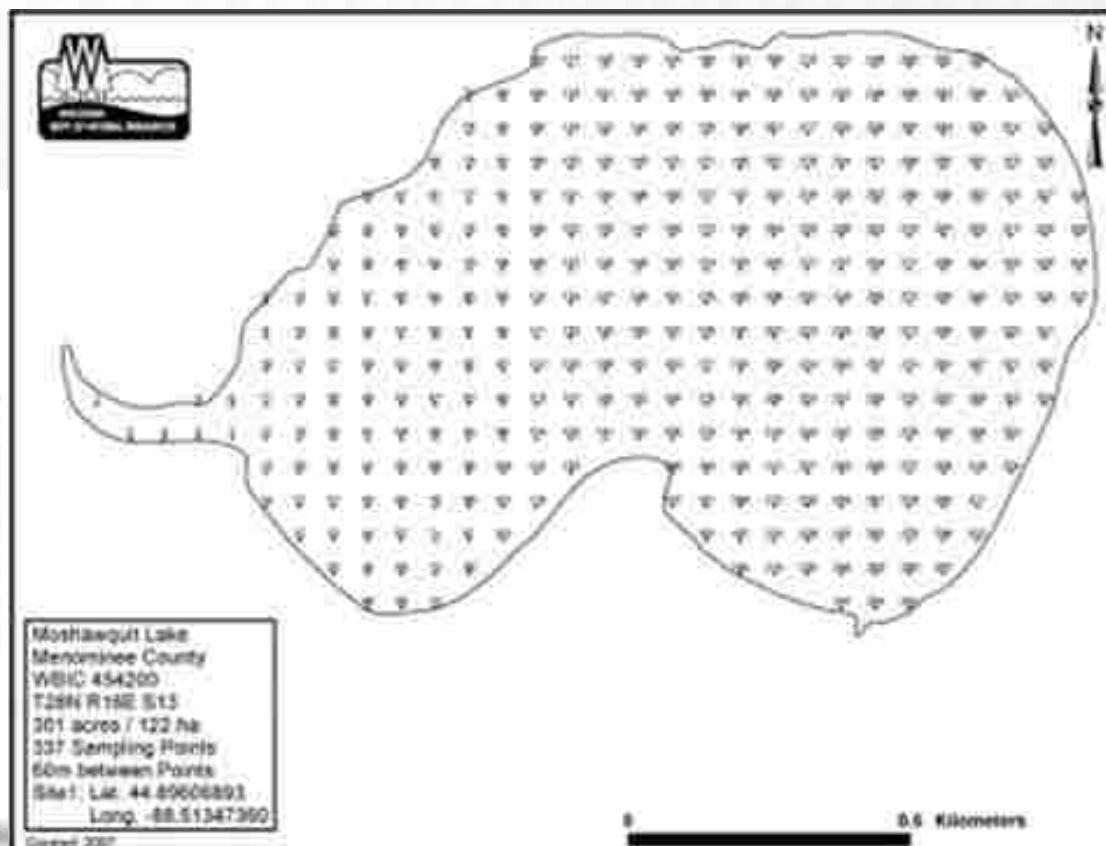
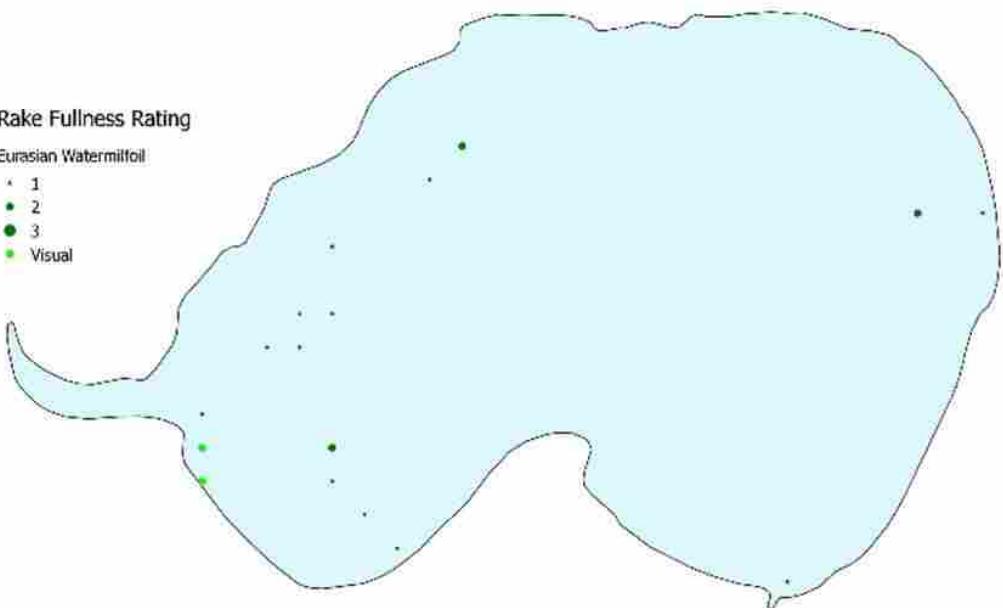
# FIGURE 7

Moshawquit Lake August 29, 2018

Rake Fullness Rating

Eurasian Watermilfoil

- 1
- 2
- 3
- Visual



# FIGURE 8

## DASH PERSONNEL

- TOPSIDE (CAPTAIN)
- DASH DIVER
- KAYAKER
- DISPOSAL PERSON
- SERVICE & MAINTENANCE

# FIGURE 9

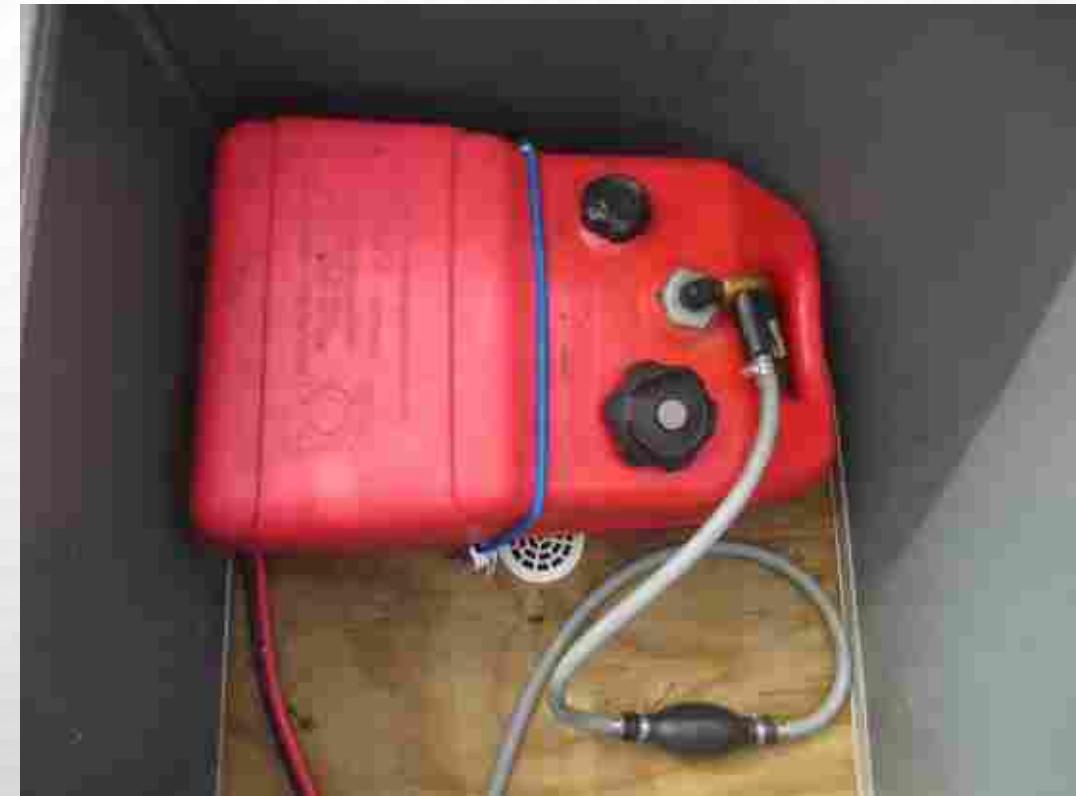
## Chapter 2 - DASH Pre-Deployment Checklist

- Clipboard box (with keys, Data sheets, permit, GPS) obtain from last Topside (Captain) DASH
- 23 HP Kohler Compressor/pump/engine** gas tank is full
- 35 HP Mercury Outboard** gas tank is full with **Premium (no ethanol) Mixed with two cycle oil (ratio is 35:1)** If in doubt, call Mark Emerick.
- 50 mesh bags in a white 5 gallon bucket (next to the collection tank.)
- Diver flag is on board DASH. (Flag may be raised into support if the boat is already on the water.)
- DASH permit, Moshawquit Lake map, and GPS are on board (in cabinet under console.)
- 2 anchors are on board (stowed at front 2 corners of boat)
- 2 electric priming (bilge) pumps are on board (stowed on hooks)
- Diver access ladder is on board. (stowed on deck)
- Sun umbrella is on board. (stowed between console and railing.)
- 2 throwable flotation cushions are on board and visible (hanging from front of console).
- 4 orange life vests are on board (stowed in black trunk at back of DASH boat)
- Pool skimmer for collecting EWM fragments is on board (stowed on outside of railing).
- Small cooler with 4-6 bottles of bottled water on board.
- Diver gear by diver:
  - Mask & snorkel (if desired)
  - Fins and or booties
  - Wetsuit (hood optional)
  - Weight belt
  - Mask anti-fogging drops
  - Spray bottle filled with mouthwash (Listerine or equal) for rinsing regulators.
  - Regulators are inside a ziploc bag with a rubber band (to keep bugs out.)
  - Towel(s)
  - Sunscreen for topside workers.

# FIGURE 9.1



## FIGURE 9.2



# FIGURE 9.3



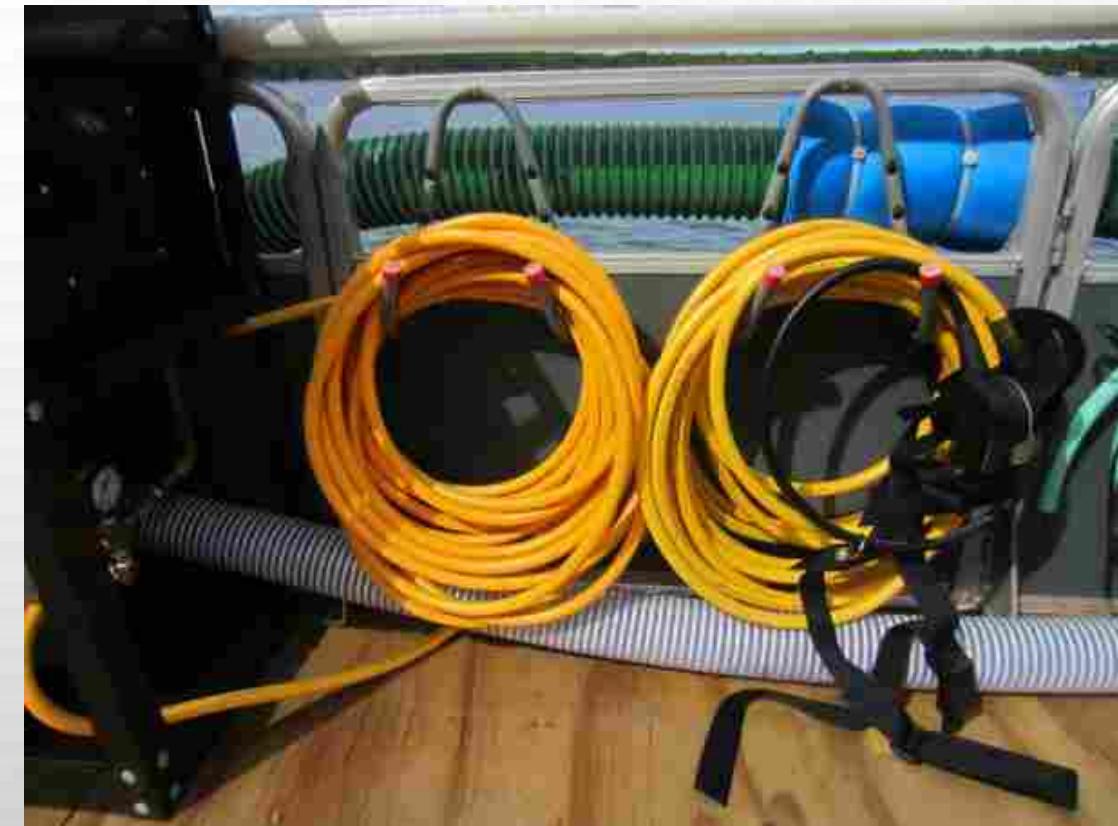
# FIGURE 9.4



## FIGURE 9.5



# FIGURE 9.6



# FIGURE 9.7



# FIGURE 9.8



# FIGURE 9.9



# FIGURE 9.10



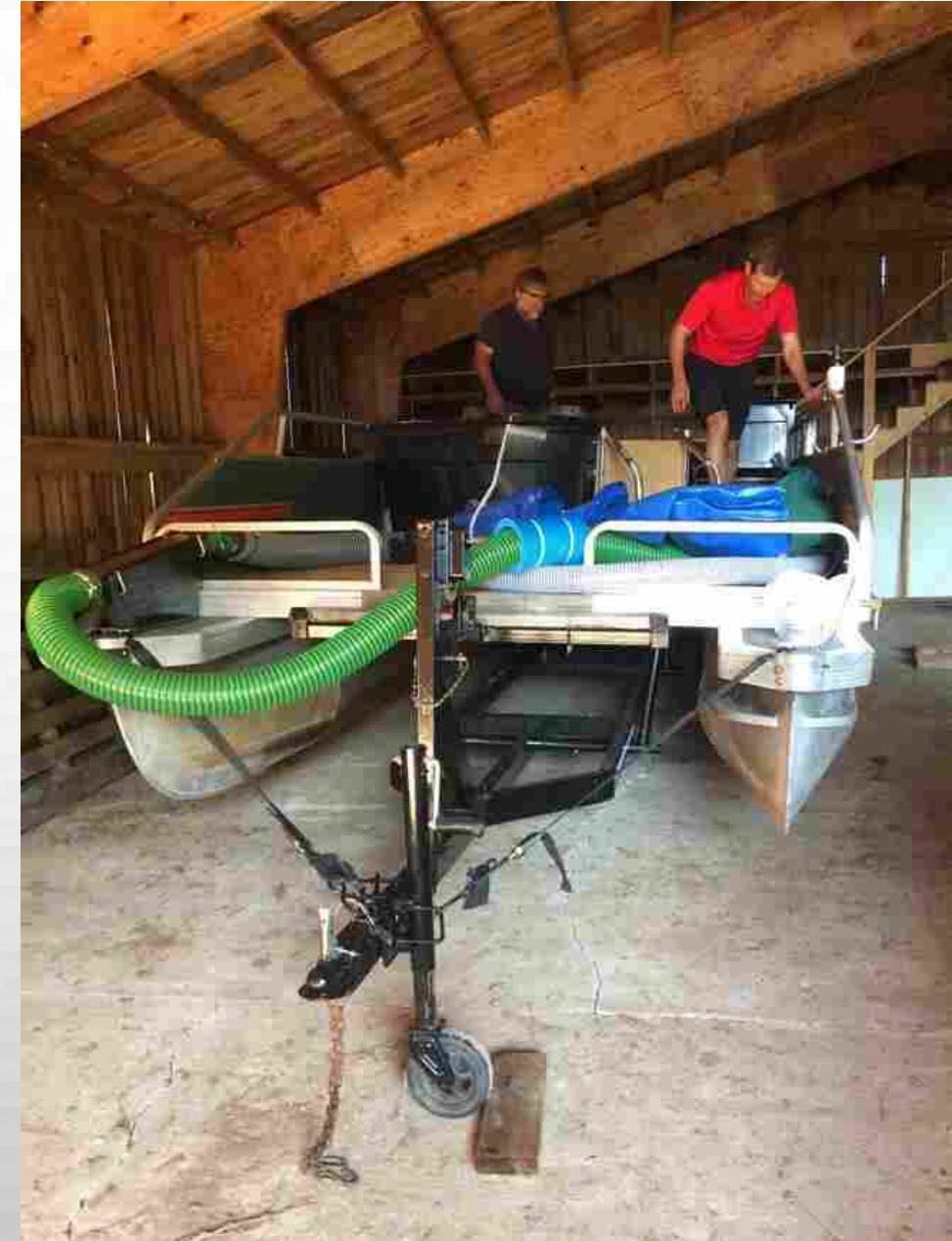
# FIGURE 9.11



## FIGURE 9.12

- NEED PHOTO OF POOL SKIMMER

# FIGURE 10



# FIGURE 11



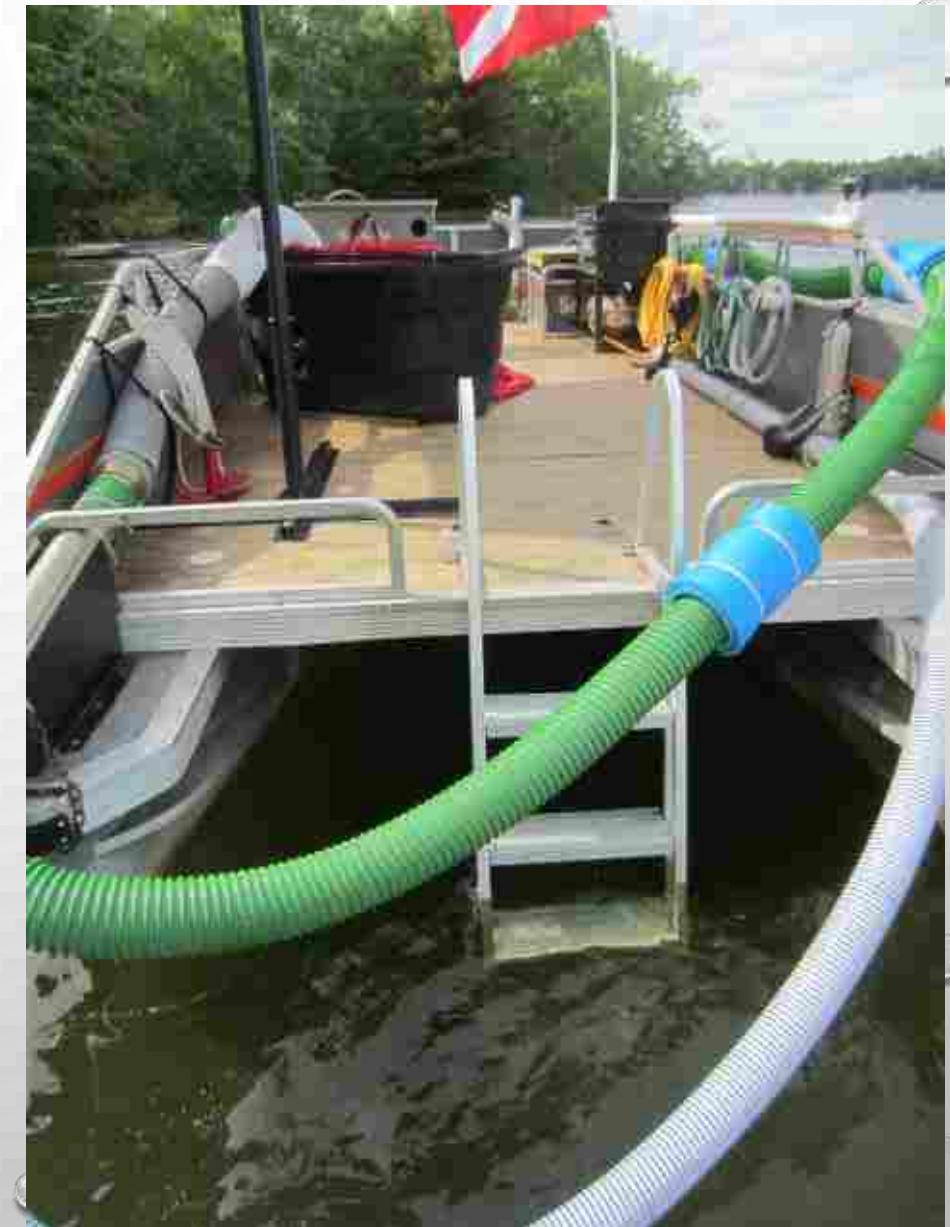
# FIGURE 12



# FIGURE 13



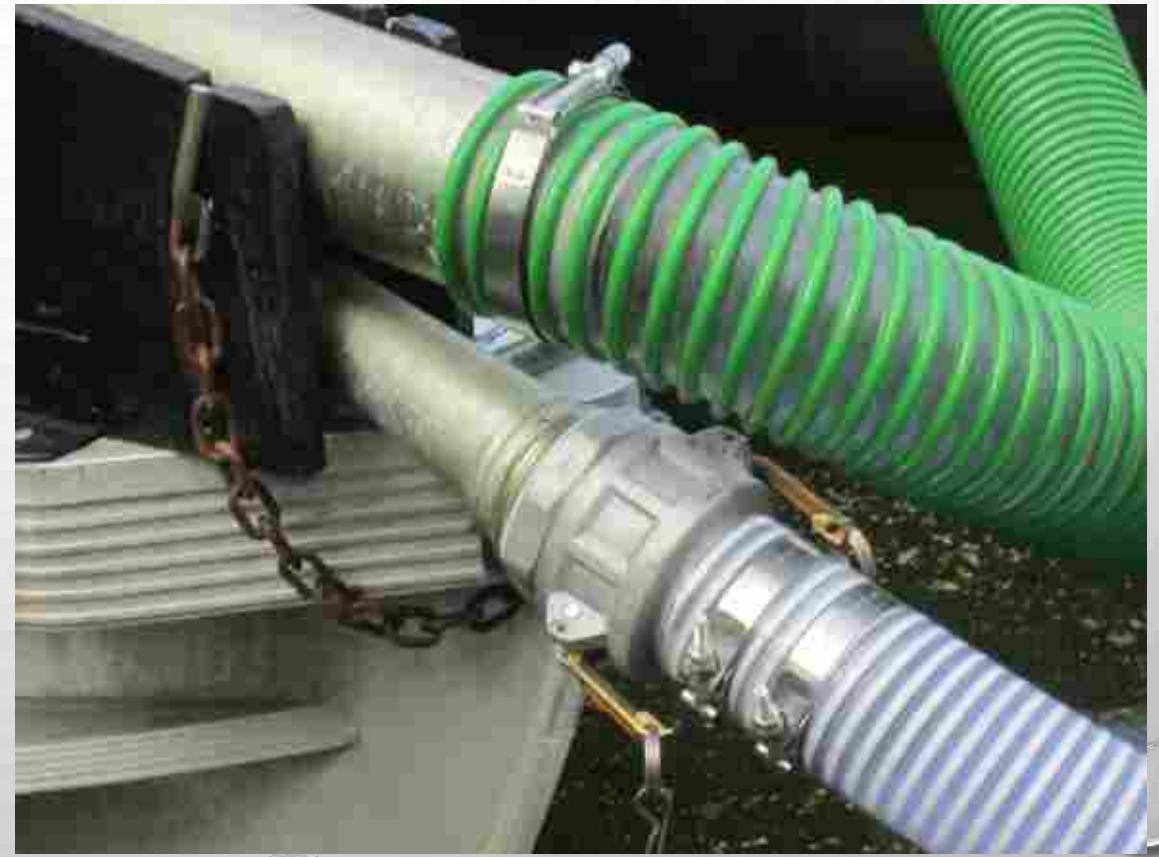
# FIGURE 14



# FIGURE 15



# FIGURE 16



# FIGURE 17



# FIGURE 18



# FIGURE 19



# FIGURE 20



# FIGURE 21



# FIGURE 22



# FIGURE 23



# FIGURE 24

2018 Moshawquit Lake DASH Project: Permit # NE-2018-40-0108M														
Harvesting hours are tracked from arrival time to departure time from dock/work site; less than 1/2 hour per day														
Date	Location(s) (Grid points)	Location(s) Longitude	Location(s) Latitude	Start Time	Finish Time	Harvesting Hours	1/2 CY. Bag Count	Comments	Conditions	% EWM Catch	EWM Weight	% Native Catch	Native Weight	Native Catch
7/13/2018	Between 107 & 120	44.8994457	-88.50312736	8:00 AM	10:30	2.5	16		78 - 82 F; Wind 3-7 MPH, WNW	95	532	5	28	niad, water celery
7/13/2018	57	44.89381995	-88.50669272	10:40	12:00	2.3	12		78 - 82 F; Wind 3-7 MPH, WNW	90	378	10	42	coontail, flat stem pondweed
7/27/2018	57	44.89381995	-88.50669272	8:00	9:00	1	15		71 - 74 F; Wind 7-12 MPH, NW	90	473	10	53	coontail, flat stem pondweed
7/27/2018	Between 107 & 120	44.8994457	-88.50312736	9:10	9:20	0.25	1	re-check of previous work	71 - 74 F; Wind 7-12 MPH, NW	95	33	5	2	niad, water celery
7/27/2018	329	44.89794979	-88.49214725	12:30	1:00	0.5	0	no EWM found	71 - 74 F; Wind 7-12 MPH, NW	0	0	0	0	
7/27/2018	299	44.90066953	-88.49359606	1:00	1:30	0.5	0	No EWM found	71 - 74 F; Wind 7-12 MPH, NW	0	0	0	0	
7/27/2018	88	44.89326013	-88.50518749	1:40	3:00	1.3	2		71 - 74 F; Wind 7-12 MPH, NW	95	67	5	4	elodea
8/3/2018	57	44.89381995	-88.50669272	8:00	9:00	1	3	re-check of previous work	70-77 F; Wind 5-10 MPH, SSW	95	100	5	5	water celery
8/3/2018	26	44.89707946	-88.50812817	9:15	9:45	0.5	2	visual from survey, sparse plants	70-77 F; Wind 5-10 MPH, SSW	90	63	10	7	bladderwort
8/3/2018	51	44.8970596	-88.50660886	10:00	11:00	1	8		70-77 F; Wind 5-10 MPH, SSW	90	252	10	28	elodea, northern water milfoil
8/3/2018	51	44.8970596	-88.50660886	11:45	3:00	3.25	7		70-77 F; Wind 5-10 MPH, SSW	90	221	10	25	wild celery, northern watermilfoil
8/6/2018	57	44.89381995	-88.50669272	9:30	10:30	1	4		73 - 84 F; Wind 3-8 MPH, WSW	95	133	5	7	wild celery
8/6/2018	56	44.89435989	-88.50667875	10:40	1:00	2.3	6		73 - 84 F; Wind 3-8 MPH, WSW	95	200	5	11	wild celery
8/10/2018	56	44.89435989	-88.50667875	8:00	10:30	2.5	13		78 - 86 F; Wind 0-4 MPH, SSW	95	432	5	23	wild celery
8/10/2018	57	44.89381995	-88.50669272	10:30	12:00	2	21		78 - 86 F; Wind 0-4 MPH, SSW	95	698	5	37	wild celery
8/10/2018	56	44.89435989	-88.50667875	12:30	4:30	4	14.5		78 - 86 F; Wind 0-4 MPH, SSW	95	482	5	25	wild celery
8/13/2018	56	44.89435989	-88.50667875	9:00	10:00	1	10		85 - 89 F; Wind 3-7 MPH, SSW	95	333	5	18	wild celery
8/13/2018	57	44.89381995	-88.50669272	10:00	12:45	2.75	18		85 - 89 F; Wind 3-7 MPH, SSW	95	599	5	32	wild celery
8/13/2018	284	44.90013961	-88.49436986	1:30	6:00	4.5	17		85 - 89 F; Wind 3-7 MPH, SSW	95	565	5	30	wild celery
8/17/2018	Between 57 & 44	44.89361667	-88.50700000	8:00	3:45	7.75	28		76 - 87 F; Wind 3-6 MPH, ENE	90	882	10	98	wild celery, flat stem pondweed, elodea
8/31/2018	Between 56 & 43	44.89426667	-88.50703333	9:00	4:30	7.5	38.5		70 - 82 F; Wind 7-12 MPH, SSE	90	1213	10	135	wild celery, flat stem pondweed
9/7/2018	Between 56 & 43	44.89421667	-88.50673333	8:30	3:30	7	45.5		63 - 72 F; Wind 0-12 MPH, ENE	95	1513	5	80	wild celery, flat stem pondweed
											9167		686	
Total Bags							281.5							
Weight per bag - 35 lbs. (50% dewatered)							35							
Total lbs							9167							
Native lbs.							686							
Non-Native lbs.							8481							

# FIGURE 25



# FIGURE 26



# FIGURE 27



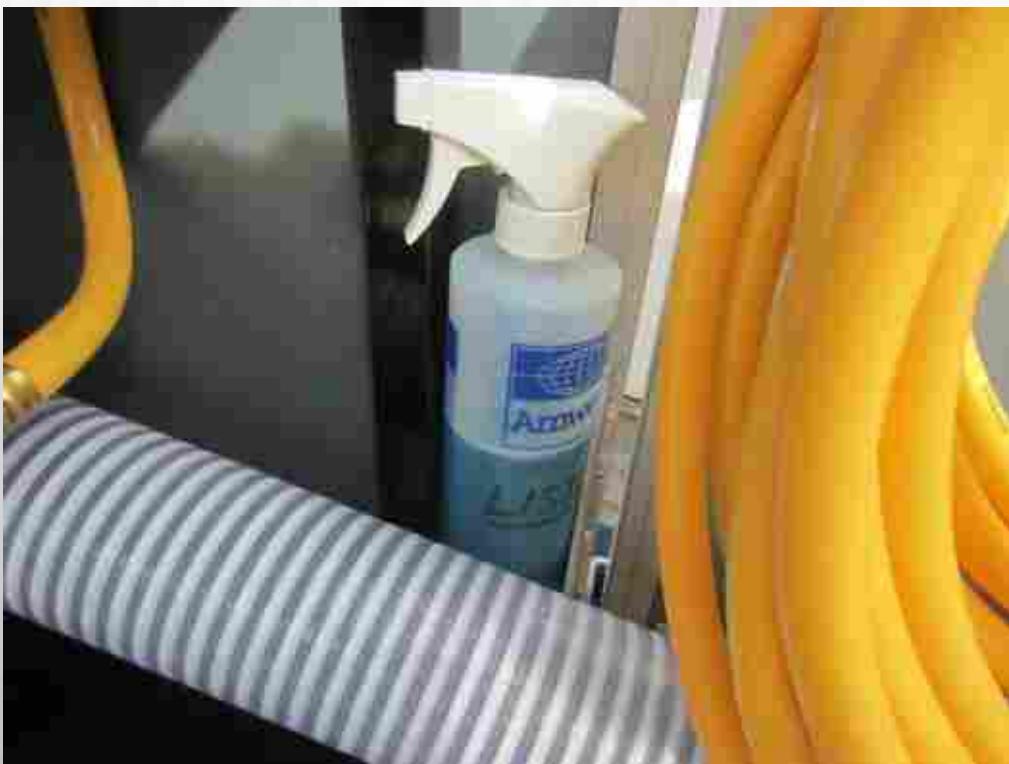
# FIGURE 28



# FIGURE 29



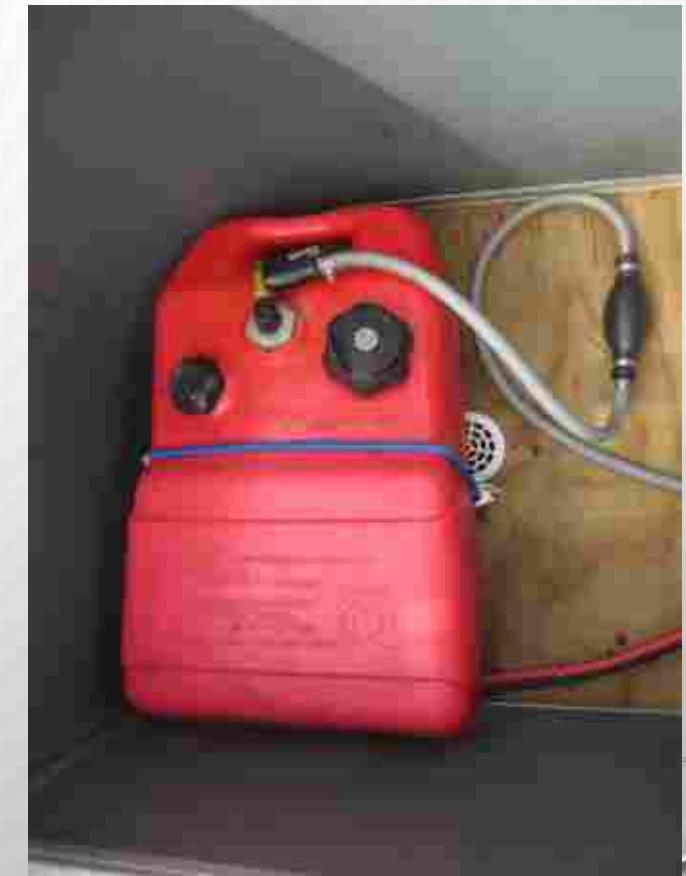
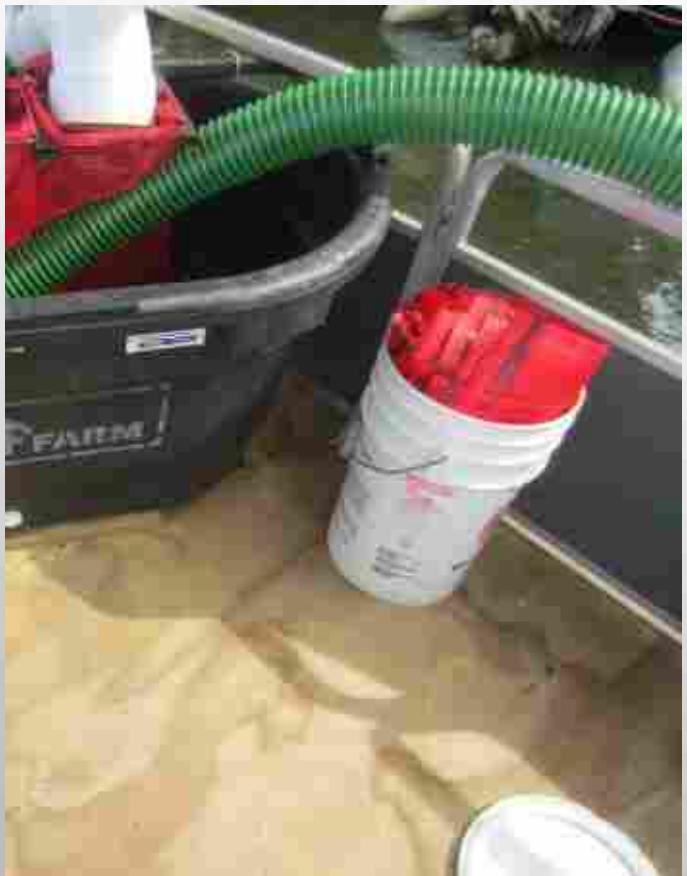
# FIGURE 30



# FIGURE 31



# FIGURE 32



# FIGURE 33



# FIGURE 34

- Diver gear by diver:
  - Mask & snorkel (if desired)
  - Fins and or booties
  - Wetsuit (hood optional)
  - Weight belt
  - Mask anti-fogging drops
  - Spray bottle filled with mouthwash (Listerine or equal) for rinsing regulators.
  - Regulators are inside a ziploc bag with a rubber band (to keep bugs out.)
  - Towel(s)

# FIGURE 35



# FIGURE 36



# FIGURE 37



## FIGURE 38

