

Subject:FW: Aeration Meeting Summary

Date: Thu, 30 Aug 2012 14:06:05 -0500

From: Spangler, Brian W - DNR <Brian.Spangler@wisconsin.gov>

To: mjmarsh@centurytel.net <mjmarsh@centurytel.net>

CC: Cole, Aaron J - DNR <Aaron.Cole@wisconsin.gov>, Margenau, Terry L - DNR <Terry.Margenau@wisconsin.gov>

Hello Marvin,

Nice to finally meet you **in person** and inspect the Largon Lake aeration system with you on the morning of Aug. 29th.

Here's a quick summary to cover what we found and discussed.

I explained that WDNR fisheries assists with these projects on a cooperative basis, contingent on funding, and we provide technical assistance to help train people in operation and system maintenance and repairs.

Recommended that the lake district form an aeration committee of volunteers that can be trained on pump repair and maintenance to ensure continuity, equitable distribution of work, and system operational knowledge into the future.

Mark and I started and ran all of the pumps. The electrical motors sounded good, vanes were operating and air was being outputted to the lines, and the functioning air lines cleared of water allowing us to observe the bubbling air column.

I determined that we would not disassemble the pumps to inspect the vanes because of issues with gaskets and "O" rings that **usually** need to be replaced once the pumps are opened up and **because** the pumps were currently working.

I assigned numbers to the pumps and lines from left to right in the house for further reference.

This is what we found:

Pump 1: Pump ran fine. Both lines 1 & 2 cleared of water and appeared to function properly. **Both lines are floating up in places and need to have rebar re-attached and sunk by boat.**

Pump 2: Pump ran fine. Both lines 1 & 2 cleared of water and appeared to function properly.

Pump 3: Pump ran fine. Line 1 cleared of water and appeared to function properly. Line 2 is plugged up and no air is getting out to the lake or the line is **possibly** plugged with sediment. **Need to repair by diverting all air flow to line 2 in attempt to clear the line or possibly replace the check valve.**

Pump 4: Pump ran fine. **Issue is with both lines right outside the shed. One line is leaking and other line has pulled apart with the end sticking up and air blowing out above water. Fix leak on one line by splicing line together. Locate ends of other line and re-attach.**

In addition, the shed roof is in need of some repair with a few missing shingles being observed. I also recommend ordering several vane kits to have on hand in case a pump breaks down in the winter. Currently they cost 104.44 without shipping (please see appendix)

We set up a repair meeting on Sept. 12 at 10:00am, at the aeration shed, to assist Largon lake aeration committee members in completing repairs.

Barron fisheries management will bring a boat, tools, some pieces of rebar, zip ties, additional fittings, connectors etc, and aeration pump that we can demonstrate vane replacement on. In addition, I will bring with a pump owners/operation manual, **vane replacement kit**, and sample reflector cards, reflective tape and posts.

Thanks again for your interest and work in preserving and enhancing the fishery resources of Largon Lake and I look forward to seeing you [and your crew](#) on [Sept. 12th](#).

Sincerely,

Brian Spangler

Note: Prices in the above attachment are not current, but can serve as a guide.

[Pump and Parts Vendor: Aquatic-Eco Systems, Inc.](#)
[AquaticEco.com](#)
[1-877-347-4788](#)

[Sweetwater Rotary Vane Pumps -- Model #AQ5](#)

[We observed that you have 3/4hp pumps, but I didn't get the model number.](#) So most likely you have AQ5 pumps.

Replacement Vane kit: Current price for a Vane Kit is 104.44



Brian W. Spangler

[Advanced Fisheries Technician](#)

[Barron and Polk Counties](#)

[127 S. 4th St. Barron, Wisconsin 54812](#)

[Wisconsin Department of Natural Resources](#)

(☎) [phone:](#) (715) 637-6861

(☎) [fax:](#) (715) 537-3246

(✉) [e-mail:](#) brian.spangler@wisconsin.gov

Aeration Barrier Fence Vendors and Materials

Fiberglass Fence Posts:

Supplier: K-Fence

RR1 Box 195

Zumbro Falls, MN 55991

1-507-753-2943

www.kfence.com

Materials: 5/8" diameter posts, 5 feet in length.

Price, approx. \$4.10 each.

Fence Post Clips:

Supplier: Same vendor as the posts -- K-Fence.

Materials: Clips for the 5/8" posts.

Price, approx. \$10.00/50 clips

Floats:

Supplier: Netco

Materials: Model # SB-6 float approx. 3" x 3" with 1/2" hole. One float per post, double float every 5th post for extra buoyancy.

Price, approx. /float.

Rope:

Supplier: Nylon Net Company

845 N. Main P.O. Box 592

Memphis, TN

1-901-526-6500

Materials: Black Polypropylene 1/2" rope (600-foot role). Stock # 42167, Price, approx. \$44.96/roll.

Reflective Tape and Reflective Markers:

Supplier: Rent-A-Flash

13605 Stettin Drive

Marathon, WI. 54448

1-715-472-7446 WI order dept. 1-800-472-7446.

Reflective Trail Blazes, Model # CX TB-6

(Cut trail blazes in half, punch hole in 1 end for zip tying to the rope between each post).

3M Reflective Tape

Materials: Tape – 6" x 50 yd 1484 Orange.

Price, approx. \$125.00.

Aeration materials cont.

Marker Signs:

Zip tie marker sign to the top of every 5th post to provide contrast and daytime visibility.

1. Supplier: GE Polymers shapes 1-866-437-7427 1-763-315-9184

Materials: 12"x 8" sheet of 10mm coroplast – (molded black corrugated plastic).

Zip tie to the top of every 5th post to provide contrast and daytime visibility.

Zip ties:

Supplier: Local hardware stores, Menards, Farm&Fleet etc.

Materials: Need enough to zip tie the rope to each post, Marker signs to the top and reflective markers between each post.