

# Marina Terrace Aeration Project

## Pelican Lake Healthy Water and Fish Committee



Project Begins Summer 2015

The positive impact of the northern basin aeration system that our committee installed in 2013 has led us to make plans to install a second, larger 250 – 300 cfm field at the mid-point of Pelican Lake at Marina Terrace, on a piece of land owned by the R.M. of Prairie Lakes. We have secured federal funding through the Recreational Fisheries Conservation Partnerships Program Grant in the amount of \$46,500, with the total cost of the project estimated to be between \$100,000 and \$120,000. A significant portion of this cost will come from local fundraising.

We will line-bore underneath the shoreline and lake bottom out approximately 500 feet, to locate the field in approximately 13.5 to 15 feet of water. Approximately 100 diffuser bubbler heads will be installed in a fan pattern as shown in the diagram below. The system will be powered by three Becker rotary vane compressors. The compressors will be housed in a small shed on shore, that will be insulated for sound and located in a heavily treed area to minimize disturbance to area residents. There will be signage placed on the lake shore and the roadway denoting the aeration system and all supporters. The aeration field will be marked in the winter with reflective signage and flashing navigation lights (visible for 1.5 nautical miles). In the summer the field will be marked with floating marks/buoys with the same navigation lights.

Once installed, we ask that all recreational boaters and fishermen stay clear of the aeration field, as it will be susceptible to damage from dragging anchors etc. Please pass this information along so that everyone is aware of the location of the field, and can help to protect the equipment.

This new aeration field will help us to further build on the improvement in water quality and fish habitat that we've already started to see in the last couple of years in Pelican Lake. Running at full capacity in the winter months, this system will add much needed oxygen to the water to prevent fish die-offs. Running at a reduced capacity during the summer months, it will work to destratify the water column and accelerate the breakdown of the organic material on the bottom of the lake.

We welcome your help with this project! Whether you would like to join our work parties, or help us out with a donation, please email us at [info@healthylake.ca](mailto:info@healthylake.ca). For more information on our committee, as well as project updates, please visit [www.healthylake.ca](http://www.healthylake.ca).

