



## Water Restoration and Enhancement of Pond at Winkler Bible Camp in Manitoba, Canada

**Location:** Winkler Bible Camp, Winkler Manitoba, Canada

**Background:** The following performance information was provided by Mr. Gerald Wiebe owner of Ecological Dynamics, Inc, Manitoba MB, Canada. Gerald has featured our technology for water enhancement and restoration successfully for over 12 years. Due to his success in natural biological water management he was contacted to address a water quality problem at Winkler Bible Camp.

The pond in question consists of a man made three acre pond with a maximum depth of 14 feet and is used for swimming and other recreational activities at the summer camp.



**Objective:** On May 14, 2016 the camp management contacted Ecological Dynamics with concerns of discolored water, excessive bottom sludge, and potential water quality issues, making it unsafe for swimming.

- Water turbidity was very poor with a layer of organic solids within the shoreline beach and on pond bottom, resulting in poor water quality and concerns for camp swimmers.

**Solution:** Treatment with **MICROBE-LIFT®/PBL** and **MICROBE-LIFT®/SA** started June 14th 2016.

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The sand contained organic muck that would come to the surface as you walked on the sandy beach and had a poor rotten egg odor.

Photos of sand before treatment began.

Prior to **MICROBE-LIFT**<sup>®</sup> treatment



Five months of **MICROBE-LIFT**<sup>®</sup> treatment



### Results Achieved:

Water quality improved dramatically within 30 days of treatment, odor was eliminated and eutrophic conditions were controlled, allowing summer camp children to once again enjoy the water and water events.

Look at the pictures left to right, review the reduction and elimination of the organic matter from the sand at shore line, and within the entire pond's ecosystem, i.e., benthic and littoral zone.

In September of 2016 camp management advised they were pleased with the recovery of their lake and requested the use of the **MICROBE-LIFT**<sup>®</sup> for 2017, treatment is currently being applied.

For more information on **MICROBE-LIFT**<sup>®</sup> Technology contact

**Ecological Laboratories Inc.**

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