



Lake Michigan Beach Pierport

Township Invasive Species Committee Report **July 3rd, 2012**

JUNE 27TH MEETING WITH Lakeshore Environmental Inc:

Present: Jennifer Jones LEI, Mike Solomon LEI, Dan Behring, Herb Lenon, Chuck and Mary Reed, Jim Simon

Results of the June 2nd survey for ewm:

Approximately 70 acres were identified for treatment in 2012. The highest density area is near the far northwestern basin and the 2nd most dense area is near the Onekama Marina. The divers and the avas survey **did not find any deep water ewm.** The lake will be resurveyed at the time of treatment to confirm this. We still plan to use data collected by divers before and after treatment to evaluate 3 different chemicals and concentrations. PLM will do the required notification of riparians as required. Tentative treatment plan is to use: Near Shore - Renovate OTF @ 150# per acre, Off shore - Max G @ 160# per acre Beyond 10 ft Navigate @ 200 # per acre. **Survey Map of June 2nd is attached -** The committee reviewed the differences in location and density of ewm from the 2008, 2009, 2010, and 2011 maps.

Tentative LSI calendar for 2012:

Spring monitoring data has been collected for the lake, streams and storm drains. Jennifer will provide us with the dates that they were done and all tentative future dates that they plan to monitor, survey or treat. Data and survey maps will be shared with the ISC and the Township as soon as available. A survey map of phragmites will be provided to Wetlands and Wildlife. **Treatment date for ewm has been tentatively set by Professional Lake Management for July 9th**

Review of the Contract for Hybrid Deep Water EWM treatment

We did not identify any deep water ewm with the June survey and we are not using a "drop- hose" bottom treatment procedure. Divers will still be used this year to do more intense monitoring of the lake, but we are not doing the evaluation protocol as was proposed last fall. Some adjustments should be made to the contract and/or use funds for additional monitoring points on the lake and the identified streams. Additional surveys later in the season may find deep water milfoil and the additional information obtained by the divers allows us to monitor our native plants.

Estimated treatment costs for ewm as of June 27th, 2012:

Because of the increased concentrations of chemicals and the increase costs of the products we intend to use, the costs for treating approximately 70 acres will be higher than treating this size area in previous years.. Estimate at this time for treatment of the currently identified ewm is \$50,000+ for the applicator and products . Phragmites treatment is estimated to be about the same as last year. This is year 4 of treatment and we would consider that the last 2years of SAD collections may be discontinued as of this year. This can be reevaluated in the fall and revised if we have some significant changes.

Other invasive species threats to Portage Lake:

- 1. Purple Loosestrife** - Wildlife and Wetlands has identified 5 areas around the lake and will treat those areas with beetles. They will return in 2 weeks and monitor the results. Jennifer and Mike suggested that a good source for the beetles is Kalamazoo Conservation Department.
- 2. Japanese Knotweed** - Jennifer found 3-4 areas around the lake. This is a growing concern in several areas of Michigan,. It is important that we do an "early identification, rapid response" program as we did with the phragmites.
- 3. Autumn Olive** - Onekama Parks and Recreation Committee has a proposal from Wetlands and Wildlife for treating the autumn olive at North Point Park and at Carden Park. Request for approval for this expense will be taken to the Onekama Township board.

MDEQ

- 1. We received the standard Aquatic Water Permit for 2012 for treating over 100acres.**
- Cost of this permit was again 1,500 and this permit allows us to use the new products and the concentrations/acre that we propose to use this year. The applicator is required to submit to the MDEQ each year, a detailed report of the treatment. Mike will contact PLM and get us a copy of these reports for the ewm treatments for 2009, 2010, 2011 and this year.

Maps:

Large maps of the tributaries that ISC uses to identify the streams were provided. to assure that we are all using the same map/names/numbers to identify the streams. **Several streams do not have names.** Mary will ask the Township board at the July 3rd meeting **what the procedure is for having streams named.**

We still have some points to clarify, but that can easily be done by email. Jennifer will also give us recommendations on additional monitoring we could be doing on the streams that may have an impact on our lake's quality. We look forward to her cost estimates on having a "**Critical Source Management**" program for the Portage Lake Watershed and the costs of such a program.

Next meeting of ISC and LSI is scheduled for Wednesday August 20th at 10 AM at the Reed's Residence.....

Submitted by:

Mary Reed,
Chair Invasive Species Committee