



FARLAIN LAKE Community Association

Ripples Farlain Lake Community Association Newsletter

Spring Issue April 2019

In This Issue

- Message from the President
- Social Media Launch
- SSEA Report on High Water Levels
- Dealing with Flooding - Are You Ready?
- Water Level Monitoring Project
- EWM Update
- Septic Re-inspections
- 2018 Fish Monitoring Results
- Upcoming Events



**Spring has finally arrived at Farlain Lake!
Or at least almost - the snow is melting
and the ice will be out soon!
What better time to celebrate Earth Week!**

Quick Links

- Membership in the FLCA
- Federation of Tiny Shoreline Associations
- [Tiny Township](#)
- [Federation of Ontario Cottagers Associations](#)
- [Severn Sound Environmental Association](#)

Tiny
EARTH WEEK
CALENDAR OF EVENTS
APRIL 22 TO 27
Let's work together towards a greener planet.
www.tiny.ca/environment

From the President...



The week of April 22 is Earth Week in Tiny with Monday being International Earth Day. Check out all the events happening in Tiny this week to promote environmental awareness and how we can protect our planet earth. As it happens, most of the content in this newsletter is related to exactly that - our plans for managing the Eurasian Watermilfoil in 2019, our efforts to address the increasingly high water levels and what you need to do to deal with the anticipated flooding, the Tiny Township septic system re-inspection program, well water testing, and the results

of the Ministry of Natural Resources and Forestries (MNRF) broadscale fish monitoring that was completed in 2018.

As you'll see from the information in this issue, it's been a very busy winter for the FLCA Board and the EWM Steering Committee. A keystone for success for any association is the relationships it has - with the members of its community, with government agencies such as the MNRF, with our local municipality - Tiny Township, other similar lake associations, and organizations that can support our efforts to protect our lake and create a stronger community such as the Severn Sound Environmental Association (SSEA). Building these relationships has been a significant part of our activity over the winter months and the following provides some highlights:

- Launching the Farlain Lake Facebook page and building a new Farlain Lake Community Association web site - set to launch this spring;
- Ongoing communication with Tiny Township to understand its goals, plans and programs particularly related to its properties around the lake such as the boat launch area, and share that information with our members;
- Partnering with the Township and the SSEA on the water level monitoring project and our efforts to manage the EWM (see articles below for more details);
- Attending both the fall and spring annual seminars put on by the Federation of Ontario Cottagers Associations (FOCA) - an excellent opportunity to access information to share with our members, network with other lake associations in Ontario and share our experiences with issues;
- Initiating a network of lake associations in Ontario also dealing with the Eurasian Watermilfoil to share our learning and experience with strategies to manage this invasive aquatic plant; and
- Participating on the Board of the Federation of Tiny Township Shoreline Associations (FOTTSA) through Doug Kirk, FLCA's representative, as well as participating in the newly formed FoTTSA "Presidents Roundtable".

As we move into the new season, our priorities include the following:

- continue to address the high water level issue;
- implement the EWM Integrated Management Plan and ensure we meet all the requirements of the grant from the Ontario Trillium Foundation;
- plan for social activities to help build community;
- launch the new web site (targeted within the next month) and increase

our use of social media;

- ensure ongoing communication with members through the newsletter, email blasts, the web site and social media;
- continue our efforts to grow our membership; and
- continue to build relationships outside our community.

We recently celebrated National Volunteer Week and sincerely thank all those who dedicate their precious time and energy to support the FLCA! This particularly applies to all those members working so hard to manage the EWM, and no one more than Pete Andrews. Pete has made an invaluable contribution to the FLCA in so many ways through his leadership and environmental stewardship. He has led the charge to manage the EWM and is now



turning over the coordination of that project to Gerry Pipe to allow Pete to focus on education and research. Gerry will chair the EWM Steering Committee and provide overall coordination and administration of the project - a significant undertaking and we are very appreciative! But we are not losing Pete! Pete and Daryl will continue actively participating on the Committee along with the following core group of *Weed Warriors*:

Don Ferguson
Pat and Brian Kelso
Greg Goss
Judy Buchanan
Lori Brouillette

High Water Levels



We know increasingly high water levels are a major concern, and so far it appears they will be higher than last year. Why is this happening? Is this cyclical or is this going to be the future and is it a result of climate change? What, if anything, can we do? Throughout our many discussions about the issue, the sense is that climate change may be responsible. However we currently have only anecdotal observations and the project initiated by the SSEA in partnership with the FLCA and Tiny will provide us with data that can be used to gain a better understanding of why this is happening, what can be expected in future and help us determine what actions may be necessary to manage it. Be sure to read Aisha Chiandet's report below and the article on

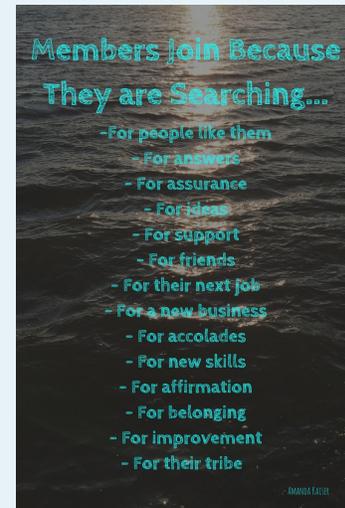
the measurement project - *Calling All Citizen Scientists*.

Aside from the above project, we've been discussion with both the SSEA and Tiny as to what can be done now to assist with the flooding . While we are not alone in dealing with flooding, we are somewhat unique in that there is no known outflow so the high levels are not significantly coming back down over the course of the summer. Some have suggested "pumping water out of the

lake" or somehow building drainage into the next lake which ultimately empties into Georgian Bay. However that lake sits in Awenda Provincial and provincial regulations would prevent that. Even if we could, there are a number of questions such as who would be responsible, what environmental impact would it have and where would the resources come from. Unfortunately there is just no immediate solution other than understanding how you can protect your property, particularly those of you located in the low lying areas.

Help Us Build Our Membership

Building a strong and engaged membership base is vitally important to our sustainability and success as a community association. It provides not only both financial and volunteer resources but strengthens our voice and our credibility as a community. Engaged members are happy members and happy members get members. Our current members are our best ambassadors. Do you have friends or neighbours who are not members? Personal contact is the most effective strategy for recruiting new members so please help us spread the word. Speak to them about what we are doing. Or refer them to any member of the Board so we can talk to them directly. Contact any of us through the general email at inquiries@farlainlake.ca and one of us will follow up immediately.



Keeping members is equally important and that means ensuring that you are seeing value in your membership. This includes what we're doing to protect the lake and the environment around it and the information we provide on a range of topics from property management issues to safety to the environment. It is providing a voice for the community with the municipality and with relevant organizations.

FLCA Members Can Now Benefit from FLCA's Membership in FOCA

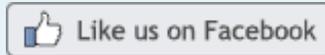


There are also tangible benefits such as the retail discount program offered by FOTTSA and available to our members since we are a member of FOTTSA. Now we can offer more benefits as the FLCA has become a member of the [Federation of Ontario Cottagers Associations](#) (FOCA). See the attached document outlining [Member Benefits](#) showing the access you as an FLCA member have to a number of "deals and discounts" including **Cottage First**, the first cottage group insurance program. FOCA is an excellent resource for information on a wide range of topics to help you manage your property and better understand the environment. Flooding and climate change are a particular focus for FOCA. Members of the FLCA will receive a generic username and password in a separate email to access secure information on the FOCA web site.

Please contact me at any time through inquiries@farlainlake.ca to chat further about the FLCA and what we're doing!

Elizabeth Di Chiara
President

Save the date! FLCA Annual General Meeting Sunday August 11, 2019 at the Knights of Columbus Hall in Penetanguishene.



Social Media Launch

We are pleased to announce that we have revitalized our Facebook page and are posting updates on a regular basis. You can look forward to seeing updates, events, photos and community information on the page. Please like and share the page to get the word out about our new resource.



If you have any photos, events, updates or community information that you would like to see posted to the page, please send the information to the page administrator Jen Parker at jeanette.a.parker@gmail.com

High Waters on Farlain Lake - a Report from the SSEA

Aisha Chiandet, SSEA Water Scientist

The following article is a summary of a recent report done by SSEA on Farlain Lake Water Levels. To read the full report, visit severnsound.ca/resources/reports-publications.

The SSEA has received complaints from concerned residents over the past couple of years regarding high water levels on Farlain Lake and the resulting property and shoreline damage. Of particular concern are septic systems that might become inundated with water and contaminate the lake. Up to approximately 190 homes and cottages may be affected by high water, depending on proximity to the lake.

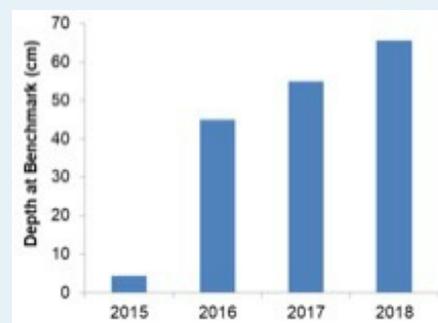


Photo taken in May 2018 showing flooded conditions on Farlain Lake (photo courtesy of Peter Andrews). Graph shows spring water levels for Farlain Lake (mid-April to early May).

Current Lake Conditions

Farlain Lake is a kettle lake that was formed during the last glacial period. It is unique in that it has no surface discharge, classifying it as a seepage kettle lake. The lake is mainly groundwater fed and is in a groundwater recharge zone, with a groundwater fed tributary that flows year round into the lake. Several other tributaries flow into the lake on an intermittent basis as a result of precipitation. It is suspected that Farlain Lake slowly discharges to Second Lake via groundwater flow. Not having an outlet can lead to high water levels in years with greater than average precipitation, while steady groundwater inputs prevent abnormally low water levels in years with less precipitation.

Spring water level measurements have been recorded by a shoreline resident from 2015-2018. The graph above shows water levels measured in mid-April to early May. These data show that levels have risen steadily over the past 4 years, with a substantial increase from 2015 to 2016. The results are difficult to put in context without information on snowpack and streamflow to indicate when the spring melt occurred, as melt timing and intensity would have a substantial impact on lake levels. No historical measurements are available, but based on anecdotal observations from residents, it seems that the high spring levels over the last 3 years do not represent normal conditions for the lake.

Factors Influencing and Leading to Lake Level Rise for Farlain Lake

Lake water levels are determined by the balance of water inputs and outputs. For Farlain Lake, inputs include precipitation, inflowing tributaries and groundwater, and surface runoff. Outputs include evapotranspiration by plants, evaporation from the lake's surface, and discharge via groundwater. Changes in precipitation and timing/intensity of snow melt may have a large impact on water levels in the lake, especially since there is no outflow. The impact will be determined partially by the local geology/physiography, so this along with information on precipitation, and timing/intensity of snow melt are important to consider in determining possible causes of increased water levels.

The recent increases in water levels observed on Farlain Lake are likely related to changes in precipitation and snow melt. An increase in snow melt could be a result of an increase in snowfall amount and/or warmer days earlier in the season that cause the snow to melt all at once instead of over a longer period of time. Since there is no record of water levels over the entire summer season, or for a longer historical period, it is difficult to determine if the recent high water levels are related to larger precipitation events or snow melt events, or if they represent long term changes in the water levels.

The fact that there is no outlet from the lake would impact the response of the lake to precipitation/runoff/snow melt events. This impact would result in higher water levels as all the inputs are stored within the lake then slowly discharged via groundwater, the speed of which depends on local geology. Based on the local geology, it is expected that any precipitation would result in large water level increases as the lake receives runoff from a large catchment relative to the lake's size. Due to the sandy nature of the surface geology around Farlain Lake, this runoff and shallow groundwater may flow quickly to the lake, resulting in a larger total amount of precipitation entering the lake over a shorter time period. However, the silt and clay-rich layer underlying the lake would result in slow discharge of the water from Farlain to Second Lake.

Therefore, larger water level increases following precipitation would be expected as a result of the local geology. If increased precipitation events are occurring recently (precipitation events that are higher intensity or longer lasting etc.), then these may be a big contributor to the higher water levels within the lake.

Recommendations

SSEA does not recommend that the natural drainage of the lake be altered - this would likely not be possible under provincial/federal legislation (e.g. Fisheries Act, Drainage Act). We recommend that a hydrogeology study of the lake be conducted to determine the balance of water inputs and outputs. Also recommended is further investigation into timing and intensity of precipitation and melt events to determine trends, and into lake and groundwater level trends to determine if recent observations represent a seasonal water level increase or a long term rise in groundwater and surface water levels.

Dealing with Flooding

While there is little we can do to control the high water levels right now, we hope the following information maybe of some help to those of you who are impacted by the flooding. Aside from property damage, the two most serious concerns are flooding of septic systems and wells which can endanger water quality in wells, ground water and the lake. A number of properties along the shoreline in the low lying areas have their septic fields and systems located in the "front" of their property which puts them at risk.



Septic Systems



The higher levels in the water table and saturated soil in the leaching beds may pose problems with your septic system. The extra water may reduce the bed's ability to absorb and treat wastewater from your residence/cottage. The tank

and pump chambers may fill with silt and debris which would also need to be cleaned. Flooding can also cause sewage to back up into your house - if the leaching bed is flooded, you should avoid using your system. You should then wait until the water has receded to prevent sand and silt from entering the tank and ending up in the leaching field. Check out the FOCA video on [septic system management](#) on You Tube.

Well Water

Flooding may also affect your well. Drinking water should be tested and disinfected after flood waters have receded. The following helpful links have been provided by the Severn Sound environmental Association.

- [Provincial well record information](#) - Use this if you need information on

your well. Information is searchable by location, well tag number and several other search options. Note that well records in this data set are typically only drilled wells (i.e., not dug wells or sand points), and sometimes the location information is not always accurate - particularly for older wells drilled prior to widespread use of accurate GPS units. The well record information typically has the owner information redacted, but may have well location information in the form of coordinates, address and/or sketch map. Well records provide details on the soils encountered during drilling (depth and type), the depth water was found at, and well yield testing information.



- Simcoe Muskoka District Health Unit Information:
 - [Wells](#) - including drilled wells, dug wells, sand points
 - [Drinking water information](#)
 - [Drinking water safety after a flood or power outage](#) - where a well has been flooded, the water should be tested and disinfected after flood waters have receded
 - [Well disinfection tool](#)
- [Wells on your property](#)
- [Well Aware](#)

Check out the information on flood preparedness on the FOCA web site at <https://foca.on.ca/high-water-flood-events-in-cottage-country/>.

You may also be interested in a FOCA publication entitled [Managing Your Waterfront Property in a Changing Climate](#).

High Water Levels

CALLING ALL CITIZEN SCIENTISTS!

by Aisha Chiandet, SSEA Water Scientist

Tiny Township, SSEA, and FLCA to partner in Farlain Lake Water Level Watchers citizen science program.

Farlain Lake water levels are on the rise, and SSEA needs your help to figure out why. A partnership between the SSEA, FLCA and the Township of Tiny will support the installation and calibration of a water level gauge (below, left), to be installed at the public boat launch on Andrew Drive. The gauge will be mounted on a post and installed just offshore at a depth of about 1m at the southern edge of the launch area, and an instructional sign (below, right) will be located at the FLCA kiosk.



**Help monitor Farlain Lake -
Send us a water level
measurement!**

Step 1. Record the current **water level in metres** and **take a picture** of the gauge. Large numbers indicate 0.10 m (10 cm) increments, blue bars show 0.01 m (1 cm) increments.

Count down from last visible number (e.g. 0.4).
Reading for this example is 0.32 m.

Bars show 0.01m (1 cm) increments

Step 2. Record the **date, time and weather**. Also indicate whether **wind direction** is towards or away from shore, along with **approx. wave size** (small, medium, large). Calm days are best.

Step 3. **Send us your results** by email, indicating Farlain Lake WLs to: sseainfo@severnsound.ca
For more info and results, visit sseacitsci.ca

Volunteers can submit water level readings and photos of the gauge (to help verify observations) by email to sseainfo@severnsound.ca. Volunteers are also asked to record whether winds are onshore or offshore, and give an estimate of wave height. The results will be shared on SSEA's citizen science portal at www.sseacitsci.ca.

Collecting as many data points as possible will allow SSEA scientists to describe the variations in water levels over short and long time periods, and help to determine the causes of these variations, such as rainfall, particularly in the winter, and snowmelt timing. Predictions of future climate indicate an increased likelihood of longer periods of drought followed by more intense storm events, and increased rainfall in the winter months. These changes can lead to wider swings in water levels. Determining patterns in water levels on Farlain Lake will assist shoreline residents in understanding impacts of climate change on the lake, and will help inform appropriate adaptive measures.

Assuming installation of the gauge goes as planned, it will be available to start monitoring by mid-May.

EWM Management - Update on Our Plans for 2019

by Peter Andrews and Gerry Pipe

The FLCA Board sincerely thanks Gerry Pipe for taking on the role of EWM project coordinator and chair of the Eurasian Watermilfoil Steering Committee. The workload involved with this project is tremendous and we know that our battle with this plant is an ongoing one. Gerry's assistance will allow Peter Andrews to focus on education and research. Gerry's guidance will also help the FLCA Board of Directors ensure we meet our obligations to the Ontario Trillium Foundation for the grant.

Managing the invasive aquatic plant in our lake takes a year-round effort.



Unfortunately this weed is - in fact - spreading and coming to a location near you. Our team of volunteers, who regularly monitor our lake for the EWM, discovered new mature beds in September of last year. This marked a significant setback to our EWM management efforts. Since the fall of 2018 the EWM Steering Committee, in concert with members of the FLCA Board of Directors, developed a three year (2019-2021) **EWM Integrated Management Plan** based on our research and experience to date. The plan is consistent with our application for a grant from the Ontario Trillium Foundation (OTF) and we are thrilled that the approval of the application will

allow us to move forward with our plan

The winter months have been a very busy time for the FLCA Board and EWM Steering Committee in production of linked OTF grant projects and preparing for the implementation of the Integrated Management Plan initiatives over the coming months Our efforts will focus on the following:

- Mapping and monitoring of the locations of the EWM;
- Education and training of volunteer 'Weed Watchers';
- Preparation of the equipment, materials and services needed for our management efforts;
- Application of the herbicide to targeted areas;
- Harvesting of the EWM utilizing FLCA's DASH system, volunteers, and contracted commercial divers; and
- Laying down of burlap benthic mats pending MNRF approval

Permits

Although the FLCA has assumed the role of lake steward, guarding the lake's health and ecosystem, any lake management efforts must be reviewed and approved by different government agencies. The Department of Fisheries and Oceans Canada (DFO) is responsible for fisheries in public waters. The Ontario Ministry of Natural Resources and Forestry (MNRF) is responsible for fisheries habitat. The Ontario Ministry of the Environment, Conservation, and Parks (MECP) is responsible for controlling the use of pesticides to manage invasive aquatic plants. The FLCA submitted appropriate project applications along with a copy of our EWM Integrated Management Plan to each of the appropriate government organizations at the end of November 2018. Over the course of the past four months, we have been in discussions with DFO and MNRF in regards to our plans. As a result of these discussions the DFO approved our EWM Integrated Management Plan for 2019 providing EWM control work does not occur before (April 1) and until the end (July 15) of the fisheries spawning and incubation timing window. Further, the MECP has supported our plan to use the aquatic herbicide Reward in limited spot treatment of dense EWM infestations, as a means to suppress the growth of EWM plants. Reward does not kill the plants;



it temporarily suppresses growth. MNRF is currently reviewing our EWM Integrated Management Plan as it relates to work undertaken in public waters. A control method utilizing experimental burlap bottom barriers is of particular interest to the Ministry of Natural Resources and Forestry. We await MNRF's comments on our Plan, tailored specifically to our Farlain Lake.

Aquatic Plant Mapping and EWM Monitoring

The key to effective management of EWM in Farlain Lake is to locate EWM plants and prioritize control efforts. As we lack sufficient funding to undertake control efforts on a weekly basis throughout the summer months, our management efforts must be based on realistic, cost effective, and ecologically sound control efforts. Our strategy is to reduce the size of dense mature EWM infestations and to remove new small EWM plant infestations in high risk areas.

In 2019 we will be focussing our efforts on locating EWM plants. FLCA volunteers will be conducting extensive surveys of the lake to search for EWM plants. Working from pontoon boats and other watercraft, the FLCA will locate EWM infestations, mark them with floating buoys, and map them for management priority setting.

The FLCA will also train shoreline property owners as volunteer Weed Watchers. These volunteers will 'patrol' their watch area for new outbreaks of EWM.

The EWM Steering Committee has developed a Weed Watcher Training Manual providing instructions in both aquatic plant identification and aquatic plant monitoring. We are fortunate to have the assistance of the Severn Sound Environmental Association (SSEA) in refining the Weed Watcher Training Manual and this summer's aquatic plant mapping and monitoring efforts. This work is critical to the evaluation of the effectiveness of our efforts and an important component of our reports back to the OTF.

EWM Management Tools

Funding provided by the Ontario Trillium Foundation will enable the FLCA to purchase and equip a second pontoon boat to be used as a support vessel for our DASH (Diver Assisted SuctionHarvesting) pontoon boat. The second pontoon boat will also be equipped for use in mapping/monitoring aquatic plants, and community outreach and education.



Timing

Aquatic plant mapping and monitoring for the plant will not begin until the end of June as aquatic plants will be more mature and easier to identify, and our activities will not interfere with fish spawning and incubation periods. As per the MECP regulations only a licensed aquatic herbicide applicator will be permitted to treat targeted EWM dense infestations with the aquatic herbicide Reward on a suitable weather day between July 22- 31. Contracted commercial divers from Lower Lakes Marine will use the FLCA's DASH pontoon boat to hand

harvest EWM plants from target sites, currently planned for two weekends of August 17-19 and 24-26. The divers will also assist us in installing burlap bottom barriers in MNRF approved EWM infestation sites. Further EWM monitoring will continue in September to assess the effectiveness of our 2019 control efforts.

Identifying all the EWM infestations and characterizing the extent of the invasive plant's damage will provide baseline information for analysis for future management efforts.

2019 and Beyond



The key to effective control of EWM and the preservation of our beloved Farlain Lake for future generations is recognizing and accepting that long-term ongoing multifaceted management initiatives are required. We depend on the continued participation and support of FLCA members, lake community residents, and government organizations for the effective execution of our 2019 - 2021 EWM Integrated Management Plan and the

years to follow. Continuing communication with other lake associations and municipalities dealing with this invasive plant is critical as we share our experiences to develop the most effective strategy for managing it. We are not alone.

The OTF grant will support our efforts for the next three years. The balance of funds raised previously (approximately \$22k) has been set aside as the beginning of a "war chest" needed to provide support for ongoing management Fund raising efforts



will continue to be necessary to carry on our vital EWM management efforts. If we back off of on any of our efforts, the progress we have made to date - and we have made progress - will be quickly lost to this terribly aggressive, invasive weed. Thank you so very much or your attention and support.

Septic Re-inspections and Well Water Testing

The Township of Tiny Sewage System Re-inspection program was initiated in 2002. The first phase of inspections were completed in 2009, the second phase in 2015 and the third phase is currently ongoing.

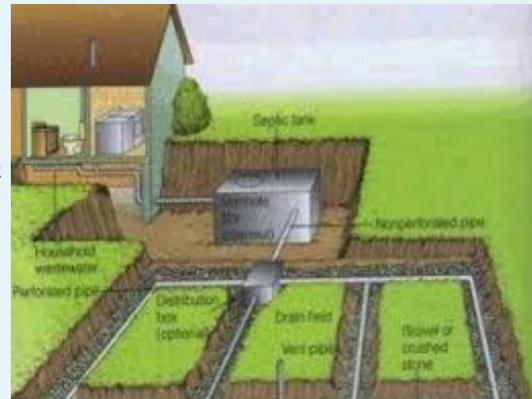
One may ask why sewage systems need to be re-inspected if any problems were identified and addressed during the first and second rounds of inspections.

The simplest answer is to safeguard human health and the environment. The intention of the program is to be an ongoing maintenance program that continuously identifies and remediates deficient sewage systems. In addition,

there are a number of sewage systems that were not quite old enough to be part of the program the last time and that will be inspected this time around.

A properly functioning sewage system is an integral part of any home or cottage. The Sewage System Re-inspection Program was undertaken to encourage regular maintenance of sewage systems through mandatory inspections. Every sewage system requires regular maintenance to ensure it is operating efficiently and safely.

The Re-inspection Program, undertaken by Tatham Engineering's field staff on behalf of the Township of Tiny, will be identifying possible sewage system deficiencies. These include deficient septic and holding tanks, deficient grey water disposal systems, effluent above/below operating level of tank, leaching bed issues, lush vegetation or hard surfaces (i.e. buildings, parking areas, etc.) over the leaching bed, and other related concerns.



The first stage of the Re-inspection Program is a visual surface inspection of the sewage system by Tatham Engineering staff. These inspections will occur between April and November. The cost of this inspection is \$92.55, which is payable to the Township of Tiny. The Township will send you an invoice for the fee following your septic inspection.

The second stage of the program involves the property owner arranging for their septic or holding tank to be pumped out by a licensed sewage hauler. The property owner must request that the hauler provide them with a written report detailing the condition of the tank at the time of the pump out. The report is to be submitted to Tatham Engineering by the owner no later than **September 30, 2019**. If the tank was pumped out in 2018 or 2017 and the owner does not have a written report, they must contact the hauler to obtain a report and submit it. We encourage all owners to obtain and submit pump out reports whenever their tanks are pumped out, even if the program is not in your area.

We have recently sent out a letter to each property owner affected by the program this year.

The Sewage System Re-inspection Program is instrumental in protecting the quality of surface and groundwater in the Township of Tiny. The program also ensures that sewage system problems are continuously identified and remediated within the Township for the good of the community as a whole. We appreciate your cooperation with this proactive program.

Contact Us:

Tatham Engineering Limited Hours of Operation: Monday to Friday, 8:30 AM to 12:00 PM (noon) 130 Balm Beach Road West Tiny, Ontario, L0L 2J0 Phone: 705-527-0119 Fax: 705-527-9001 Email: sewagereinspectionprogram@tiny.ca

2018 Broadscale Fish Monitoring Results

Broad-scale Fisheries Monitoring Program Bulletin
FARLAIN LAKE - FMZ 16 - 2018-2022

Farlain Lake facts
Location: TNY
Surface area: 110 ha
Maximum depth: 4.9 m
Average depth: 1.7 m
Water clarity: 5.4 m

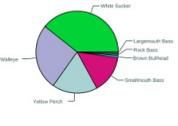
Monitoring activities

- Fish netting
- Fish contaminants
- Zooplankton
- Water chemistry
- Bathymetry
- Water temperature/dissolved oxygen
- Aquatic invasive species

Netting summary
Netting period: Jun 25 to Jun 28 2018
Number of nets set: 17
Number of fish species caught: 10

About Broad-scale Fisheries Monitoring
The Broad-scale Fisheries Monitoring program collects information from representative lakes in fisheries management zones across the province to help biologists manage our fisheries effectively. This bulletin provides a snapshot of recent monitoring activities and netting results. The sampling approach allows us to measure and evaluate the health of Ontario's lakes and their fish communities, and track changes through time over broad areas of Ontario. To learn more about the sampling program visit Methods for monitoring fish populations.

ontario.ca/fishing



Fish species	Total catch %	Maximum length (cm)	Minimum length (cm)	Average length (cm)
White Sucker	30	56.7	23.0	40.9
Walleye	26	57.9	25.2	40.7
Yellow Perch	18	30.3	16.5	19.8
Smallmouth Bass	15	52.5	15.9	42.4
Brown Bullhead	<1	29.0	23.0	29.0
Rock Bass	<1	13.6	13.6	13.6
Largemouth Bass	<1	34.9	34.9	34.9

The [Ministry of Natural Resources and Forestry](#) (MNR) is responsible for monitoring the abundance and health of fish populations in the lakes and rivers across Ontario. MNR completed its monitoring of fish in Farlain Lake last June and we have just received a short bulletin with the results. Please [download the complete results](#) here.

MNR had conducted two previous studies and we are in the process of comparing 2018 to those. We will share that with you as soon as it is available.

Upcoming Events

Mark Your Calendars!

Backyard Invasive Species in Tiny Seminar -
Wednesday, April 24th - Tiny Community Centre |
6pm-8pm.

Presented by Robert Canning (Invasive Species Coordinator, SSEA) and Lynn Short (Horticulture Professor and Local Phragmites Researcher). Learn about invasive species in Tiny and what you need to know as a landowner. Breakout sessions include Phragmites removal techniques. Registration required. Refreshments provided.

Elmvale Maple Syrup Festival Saturday April 27, 2019 8:00 a.m. - 5:00 p.m.

Sugar Bush Nature Walk Saturday April 27, 2019 (tied in with the Elmvale Maple Syrup Lake Festival) 1355 Flos Road 8 East - 11:20 a.m.-noon.

Join the naturalists from the Tiny Marsh Biodiversity group for a 40-minute walk through the sugar bush at a time when we are welcoming back many well-loved migrants and enjoying the flowering of our spring ephemerals. This tour is a feature of the Elmvale Maple Sugar Festival. Registration required.

Ontario's Best Butter Tart Festival in Midland Saturday June 8, 2019

Tiny Township Town Hall Meeting Saturday May 25, 2019 10:00 a.m. - 12:00 Noon at the Tiny Township Community Centre

FLCA Annual General Meeting Sunday August 11, 2019 10:00 a.m. - 12:00 Noon at Knights of Columbus Hall in Penetanguishene



Followed by a special reception to recognize the Ontario Trillium Foundation for the grant in support of managing the EWM.

Eurasian Watermilfoil Harvesting on Farlain Lake Friday August 16-
Sunday August 18 and Friday August 23-Sunday August 25, 2019

We Need You!

...and we need your support in growing our membership!

More members mean a stronger voice for the Farlain Lake Community. And membership provides access to valuable information, a strong community network, the opportunity to influence the future of our Lake and protect it for generations to come.



Join for one, two or five years and encourage your friends and neighbours to do the same! Download the [2018-2019 Membership form here](#).

Payment is easy now with e-transfer - [click here](#) for instructions.