

**LIPA**  
Member  
Meeting

9/16/2018



# 2017 Cyanobacteria Bloom

- Found by Pete & Krista Bajor
- Where on lake
- Harmful to humans & pets
- How to prevent
- Dissipate on own

submitted by Pete and Christa Bajor

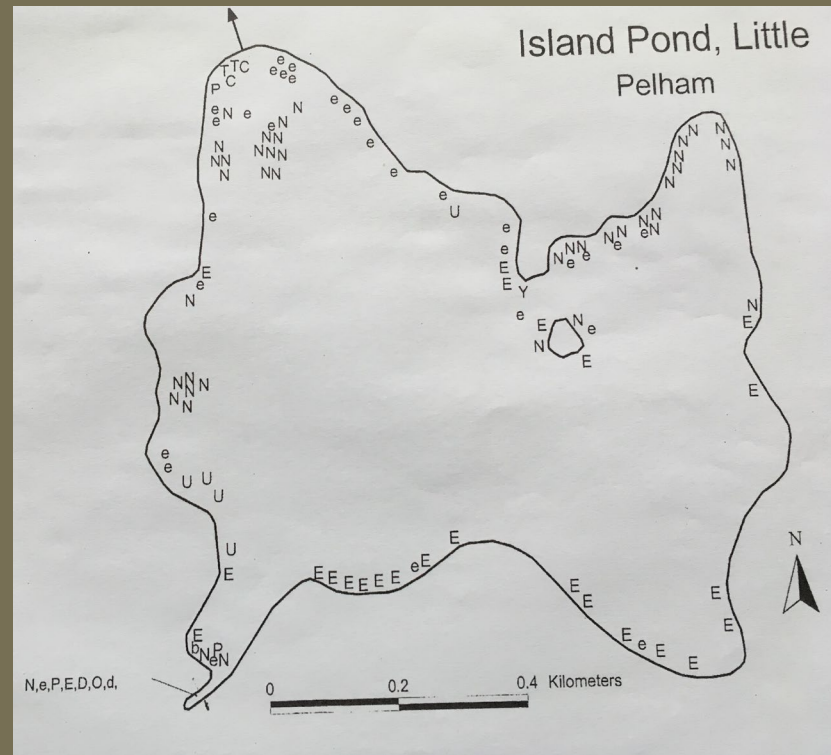




# **Water Testing Results – Pete Bajor**

# 2018 Water Test Data

- Sampling performed weekly by Krista & Pete Bajor
- Samples collected :  
4<sup>th</sup> of July week through Labor Day weekend
- Where on the Pond
- Definitions
- Safety Sampling
- Results





# 2018 Water Test Data

➤ Island Pond Park



# 2018 Water Test Data

- ▶ Picard Cove (South Shore Drive)



# 2018 Water Test Data

- ▶ Sandy Beach (Webster Avenue)





# 2018 Water Test Data

➤ Schmidt Cove (West Shore)



# 2018 Water Test Data

➤ Woekel Circle



# 2018 Water Test Data

## ► Definitions

### **Bacteria in fresh surface waters like Lakes & Ponds**

What are coliform bacteria?

- Coliform bacteria are various species of bacteria linked together that can be cultured as a single group. Used as an indicator.
- Includes:
  1. Fecal coliform bacteria - which are found naturally in the intestines of warm blooded animals.
  2. Non-fecal coliform bacteria
- Fecal coliforms include:
  1. Pathogenic (Disease causing) species
  2. Non-pathogenic species
- Presence of fecal coliform indicates contamination of the waterbody by human and/or animal fecal material.

# 2018 Water Test Data

## ► Definitions

## Bacteria in fresh surface waters like Lakes & Ponds

What is E. coli?

- E. coli is one of the most common subset species of coliform bacteria
  - Normal component of the large intestine in humans and other warm blooded animals like ducks, beavers, sea gulls, etc.
  - Found in human sewage in high numbers
  - Indicator organism – Presence in water indicates that sewage *MAY* be present
  - If sewage is present, disease causing organisms may also be present

# 2018 Water Test Data

## ► Recreational Safety Sampling

### **Bacteria in fresh surface waters like Lakes & Ponds**

What level of E. coli is acceptable?

- Determined by risk analysis based on statistics to protect human health
- Drinking water should have no E. coli
- Swimming beaches should not exceed 88 E. coli per 100 milliliter (mL) sample in any one sample OR 47 E. coli per 100mL three sample geometric mean over 60-day period
- Recreational waters not designated as beaches should not exceed 406 E. coli per 100mL in any one sample OR 126 E. coli per 100mL three sample geometric mean over 60-day period
- Occasional higher counts are not unusual after storm events when runoff occurs. Generally not considered unsafe unless the source is determined to be sewage

# 2018 Water Test Data

## ➤ Results

### Little Island Pond Fecal Coliform Colonies per 100 mL

	EXAMPLE				
Date →	6/30/2018	7/3/2018	7/9/2018	7/16/2018	7/24/2018
Weather (today)	Sunny, 83	Sunny, 89	Sunny, 89	Sunny, 90	Sunny, 89
Weather (yesterday)	Sunny, 75	Sunny, 90	Sunny, 89	Sunny, 85	Rain, 85
Weather (2 days ago)	Sunny, 72	Sunny, 85	Sunny, 90	Sunny, 82	Shower, 80
Location ↓					
<b>BEACHES</b>					
Campbell Road	0	0	0	0	0
West Shore: Schmidt Cove	NA	NA	NA	NA	NA
Island Pond Park	0	200	0	0	0
South Shore Drive:					
John Picard Cove	0	NA	0	200	0
Malapan	NA	NA	NA	NA	NA
Paul Picard Point	NA	0	NA	NA	NA
Doucot Cove	NA	NA	NA	NA	NA
Webster Avenue	0	0	0	0	0
Woekel Circle	0	400	100	0	0
<b>STREAMS</b>					
S. Shore - Gravel/Shelzi	NA	NA	NA	NA	NA
S. Shore - Roth/Picard	NA	NA	NA	NA	NA
Campbell Rd. - Webster (channel)	NA	NA	NA	NA	NA
Webster Rd. - Sandy Beach	NA	NA	NA	NA	NA
Wood Rd. - Green	NA	NA	NA	NA	NA
Wood Rd. - Bajor	NA	NA	NA	NA	NA
Woekel Circle - left of dock @ beach	NA	NA	NA	NA	NA

# 2018 Water Test Data

## ➤ Results

### Little Island Pond Fecal Coliform Colonies per 100 mL

	EXAMPLE					
Date →	6/30/2018	8/2/2018	8/7/2018	8/16/2018	8/20/2018	8/29/2018
Weather (today)	Sunny, 83	Sunny, 90	Sunny, 94	Sunny, 89	Sunny, 75	Sunny, 98
Weather (yesterday)	Sunny, 75	Sunny, 88	Sunny, 96	Rain, 78	Sunny, 73	Sunny, 95
Weather (2 days ago)	Sunny, 72	Sunny, 86	Sunny, 92	Rain, 89	Sunny, 78	Sunny, 92
Location						
<b>BEACHES</b>						
Campbell Road	0	NA	NA	NA	200	100
West Shore: Schmidt Cove	NA	0	0	100	NA	NA
Island Pond Park	0	0	100	0	0	200
South Shore Drive:						
John Picard Cove	0	NA	NA	0	NA	0
Malapan	NA	0	NA	NA	NA	NA
Paul Picard Point	NA	NA	NA	NA	0	NA
Doucot Cove	NA	NA	0	NA	NA	NA
Webster Avenue	0	200	0	0	0	100
Woekel Circle	0	0	0	0	0	100
<b>STREAMS</b>						
S. Shore - Gravel/Shelzi	NA	NA	NA	NA	NA	NA
S. Shore - Roth/Picard	NA	NA	NA	NA	NA	NA
Campbell Rd. - Webster (channel)	NA	NA	NA	NA	NA	NA
Webster Rd. - Sandy Beach	NA	NA	NA	NA	NA	NA
Wood Rd. - Green	NA	NA	NA	NA	NA	NA
Wood Rd. - Bajor	NA	NA	NA	NA	NA	NA
Woekel Circle - left of dock @ beach	NA	NA	NA	NA	NA	NA