

LIPA
Member
Meeting

9/22/2019





Water Testing Results – Pete Bajor

2019 - Cyanobacteria Blooms

[Not found in 2018]

- ▶ Found by Krista Bajor
- ▶ Wood Road
 - ▶ August 15, 2019
 - ▶ August 22, 2019
 - ▶ September 4, 2019
- ▶ Potentially Harmful to humans & pets
- ▶ Dissipated on its own



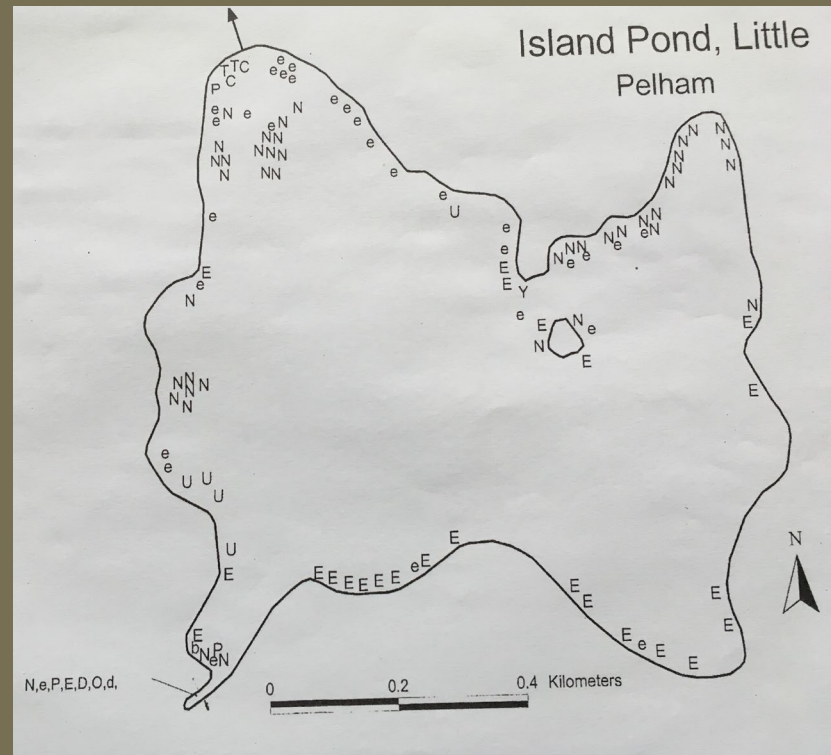
Blackish Brown scum

- ▶ Wood road
 - ▶ August 19, 2019
 - ▶ August 27, 2019
- ▶ Native
- ▶ Non-Invasive
- ▶ No action to be taken
- ▶ Not harmful- washed away over time
- ▶ Normal pond decomposition processes



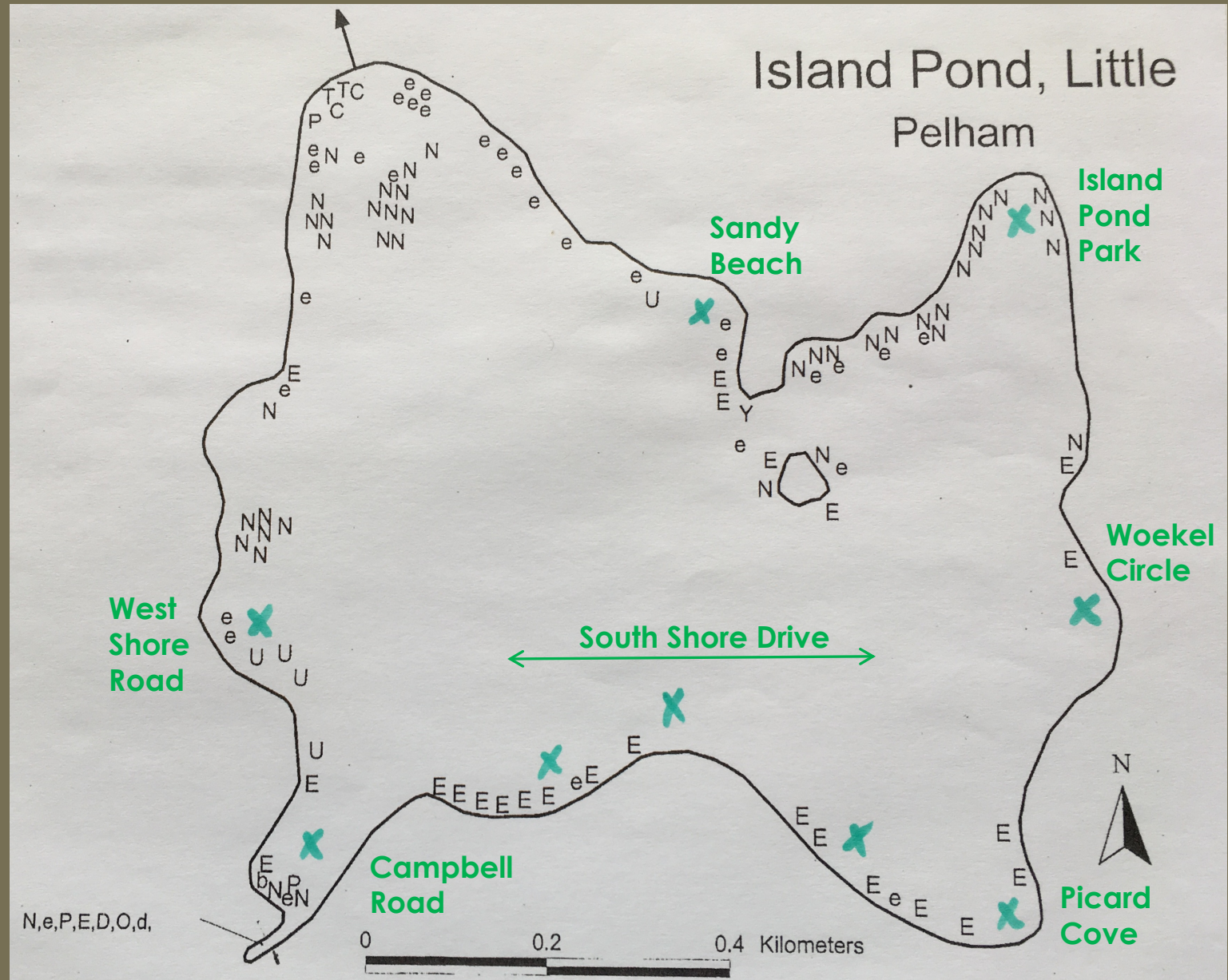
2019 Water Test Data

- Sampling performed weekly by Krista & Pete Bajor
- Samples collected :
4th of July week through Labor Day week
- Where we sample on the Pond
- Definitions
- Results



2019 Water Test Data

- Where do we sample on the Pond ?



2019 Water Test Data

➤ Island Pond Park



2019 Water Test Data

- ▶ Picard Cove (South Shore Drive)



2019 Water Test Data

- ▶ Sandy Beach (Webster Avenue)



2019 Water Test Data

▶ West Shore Cove



2019 Water Test Data

▶ Woekel Circle



2019 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.

2019 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

2019 Water Test Data

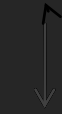
► Recreational Safety Sampling

Bacteria in fresh surface waters like Lakes & Ponds

What level of E. coli is acceptable?

- Based on Statistical Risk Analysis to protect human health
- Designated 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

2019 Water Test Data



➤ Results

Little Island Pond Fecal Coliform Colonies per 100ml

	EXAMPLE					
Date	6/30/2018	6/30/2019	7/8/2019	7/16/2019	7/23/2019	7/29/2019
Weather (today)	Sunny, 83	Sunny, 89	Sunny, 89	Sunny, 90	Rain, 69	Sunny, 97
Weather (yesterday)	Sunny, 75	Sunny, 90	Sunny, 89	Sunny, 85	Rain, 70	Sunny, 90
Weather (2 days ago)	Sunny, 72	Sunny, 85	Sunny, 90	Sunny, 82	Sunny, 97	Sunny, 89
Location						
BEACHES						
Campbell Road	0	0	0	0	0	0
West Shore: Schmidt Cove	NA	NA	NA	NA	NA	NA
Island Pond Park	0	200	0	100	0	0
South Shore Drive:						
John Picard Cove	0	NA	NA	0	0	NA
Malapan	NA	NA	NA	NA	NA	NA
Paul Picard Point	NA	0	300	NA	NA	NA
Doucot Cove	NA	NA	NA	NA	NA	0
Webster Avenue	0	0	0	0	0	0
Woekel Circle	0	0	200	0	0	0

2019 Water Test Data

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➤ Results

Little Island Pond Fecal Coliform Colonies per 100ml

	EXAMPLE					
Date	6/30/2018	8/6/2019	8/13/2019	8/20/2019	8/26/2019	
Weather (today)	Sunny, 83	Sunny, 82	Sunny, 94	Sunny, 89	Sunny, 70	
Weather (yesterday)	Sunny, 75	Rain, 84	Sunny, 96	Sunny, 87	Sunny, 74	
Weather (2 days ago)	Sunny, 72	Sunny, 83	Sunny, 92	Sunny, 90	Sunny, 80	
Location						
BEACHES						
Campbell Road	0	100	NA	NA	0	
West Shore: Schmidt Cove	NA	NA	0	100	NA	
Island Pond Park	0	0	0	0	0	
South Shore Drive:						
John Picard Cove	0	NA	NA	0	NA	
Malapan	NA	0	0	NA	NA	
Paul Picard Point	NA	NA	NA	NA	0	
Doucot Cove	NA	NA	NA	NA	NA	
Webster Avenue	0	0	0	0	0	
Woekel Circle	0	0	100	0	0	

Questions ?

