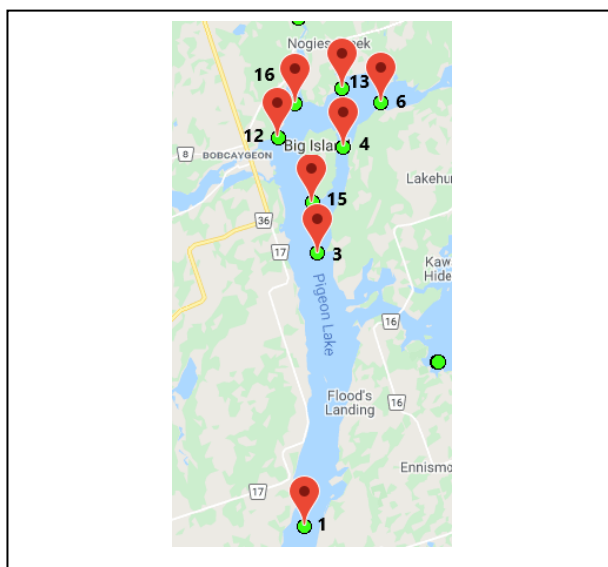


Pigeon Lake

Lake Morphology	
Coordinates	44°27'18.6"N 78°29'12.5"W
Lake Surface Area	53.4 hectares
Maximum Depth	17.4 metres
Average Depth	3.0 metres

Fish Species		
Fish Species	Sighted by MNRF	Sighted by the Public
Brook Trout		
Brown Bullhead	X	
Brown Trout		
Burbot	X	
Lake Trout		
Lake Whitefish		
Largemouth Bass	X	X
Muskellunge	X	X
Northern Pike		
Pumpkinseed	X	X
Rainbow Trout		
Rock Bass	X	X
Round Whitefish		
Smallmouth Bass	X	X
Walleye	X	X
Yellow Perch	X	X

Municipal and Association Facts	
Municipality	Trent Lakes, Selwyn, City of Kawartha Lakes
Watershed	Kawartha Lakes
Lake Association	Pigeon Lake Cottage Association Inc. Conc. 17, North Pigeon Lake Association , Nogies Creek Drive Cottagers' Association, Alpine Village Property Owners' Association
Conservation Authority	Kawartha Conservation / Otonabee Conservation



Monitoring and Management	
Currently monitored through the Lake Partner Program	Yes
Source Water Protection Region	Trent Conservation Coalition
Fisheries Management Zone	17
Lake Trout Managed Lake	No

Please see the introduction for information regarding data sources, limitations, and disclaimers.

Lake Partner Program Data – Total Phosphorus (ug/L)					
Site	Target	Average 2002-2005	Average 2006-2009	Average 2010-2013	Average 2014-2017
1	< 20	19.5	23.8	NA	NA
3	< 20	14.3	16.3	17.1	15.1
4	< 20	18.0	NA	NA	NA
6	< 20	25.7	NA	NA	NA
12	< 20	15.8	17.2	20.7	17.4
13	< 20	15.7	14.4	15.3	16.1
15	< 20	17.0	17.4	18.8	16.2
16	< 20	16.5	17.0	28.6	16.9
All Sites Avg.	< 20	16.4	16.4	19.9	16.2
<i>The Ontario Provincial Water Quality Objectives states: “To avoid nuisance concentrations of algae in lakes, average total phosphorus concentrations for the ice-free period should not exceed 20 µg/L. A high level of protection against aesthetic deterioration will be provided by a total phosphorus concentration for the ice-free period of 10 µg/L or less. This should apply to all lakes naturally below this value.”</i>					

Lake Partner Program Data – Secchi Depth (m)					
Site	Target	Avg. 2002-2005	Avg. 2006-2009	Avg. 2010-2013	Avg. 2014-2017
1	> 1.2	0.6	NA	NA	NA
3	> 1.2	3.2	3.0	3.0	3.0
4	> 1.2	4.4	NA	NA	NA
6	> 1.2	4.0	NA	NA	NA
12	> 1.2	4.5	3.3	2.2	3.2
13	> 1.2	3.4	3.0	3.0	3.0
15	> 1.2	3.6	3.5	3.0	3.0
16	> 1.2	4.3	3.4	2.3	3.3
All Sites Avg.	> 1.2	3.7	3.3	2.8	3.1
<i>Typical Secchi depths by lake trophic status</i> <i>Oligotrophic: 2-4m Mesotrophic: 1-2m Eutrophic: less than 1m</i>					

Lake Partner Program Data – Calcium (mg/L)					
Site	Target	Average 2002-2005	Average 2006-2009	Average 2010-2013	Average 2014-2017
1	> 2	NA	50.4	NA	NA
3	> 2	NA	30.6	30.4	31.4
4	> 2	NA	NA	NA	NA
6	> 2	NA	NA	NA	NA
12	> 2	NA	29.5	31.4	31.6
13	> 2	NA	30.3	30.9	31.1
15	> 2	NA	31.6	30.5	31.0
16	> 2	NA	30.5	31.4	32.6
All Sites Average	> 2	NA	31.6	30.9	31.5
Laboratory experiments have shown that the reproduction of most <i>Daphnia</i> species (a species of zooplankton that are a primary food source for many fish species) is jeopardized at lake calcium concentrations below 1.5-2.0 mg/L.					

For more information on other citizen science initiatives that you can get involved with, as well as more detailed information about water quality monitoring, check out [FOCA's Citizen Science Guide](#).

For more information on aquatic invasive species, check out www.invadingspecies.com

Levels of contaminants in fish flesh (e.g., mercury, PCB's, mirex, organochlorine pesticides, and other organic chemicals) are reported in: [The Guide to Eating Ontario Sport Fish](#).