

# Memorandum

**Date:** July 17, 2025  
**To:** Preston Nielsen, Environment and Climate Programs Coordinator  
**From:** Kris Hadley, Hutchinson Environmental Sciences Ltd.  
**Re:** J100033 – 2024 Water Quality Monitoring Summary

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In 2024, Seguin Township completed year 15 of sampling for its Water Quality Monitoring Program. This program collects total phosphorus (TP) concentration data and other pertinent lake information (e.g., Secchi depth, dissolved oxygen concentration, lake depth, dissolved organic carbon, and major ion concentrations) in support of the water quality model developed to predict phosphorus concentrations in the Township<sup>1</sup>. Continued monitoring will also allow the Township to identify any changes in lake water quality as they emerge.

Monitoring in 2024 was conducted by summer students employed by Seguin Township. HESL staff provided sampling instructions which consisted of two half day training sessions in the spring and fall and ongoing technical guidance and assisted coordination with the laboratory at Dorset Environmental Science Centre (DESC). Duplicate water samples were collected from 47 sites for analysis of spring overturn TP concentration and in August, 29 sites were revisited to measure dissolved oxygen and temperature profiles, Secchi depth and lake depth.

Spring total phosphorus data are also collected by volunteers for several of the lakes in the Township under the province's Lake Partner Program (LPP) using the same sampling protocols as Seguin's program and analyzed at DESC. As with previous years, available LPP total phosphorus data collected since 2002 were compiled, reviewed and added to the Seguin data set to provide more data for more lakes and years. Combined, these two monitoring programs provide spring overturn total phosphorus data for 97 of the 129 lakes in Seguin Township that have a surface area of at least 10 ha.

The major findings from the 2024 Seguin monitoring and the results of the combined data from Seguin's monitoring program and the LPP are summarized below, and recommendations are provided for future sampling.

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<sup>1</sup> Hutchinson Environmental Sciences, Ltd., 2016. Review, Update and Refinement of Seguin Township's Water Quality Model (SWQM) and Phosphorus Management Approach. *Final report prepared for Seguin Township. January 2016. 67pp*



# 1. Spring Total Phosphorus

## 1.1 Data Screening

Water samples for analysis of total phosphorus are taken into duplicate laboratory-provided glass tubes. Contamination of samples can occur during sample collection which can produce elevated TP concentrations and 'bad splits' between the field duplicates. Even with careful sampling, bad splits occur in approximately 10% of sample submissions to DESC (pers. comm., Bev Clark, MOECP retired). All sample pairs that differed by more than a) 40% from the minimum of the two values, and b) 4 µg/L, were therefore flagged and the higher of the two values was removed, assuming contamination.

There were no bad splits identified in the 47 sites sampled collected by Seguin Township in 2024 (Table 1). This represents continued good sampling practices as the percentage of bad splits has remained below 10% since 2012. We recommend continued vigilance in following sampling protocol when collecting water samples to maintain the good record of minimum sample contamination.

**Table 1. Bad Splits between Duplicate Samples Collected by the Seguin Township Monitoring Program and the Lake Partner Program (LPP) for Seguin Township Lakes**

<b>Year</b>	<b># of Bad Splits</b>	<b>Total # of Samples</b>	<b>% Bad Splits</b>
<b>2008</b>	3	25	12
<b>2009</b>	7	37	19
<b>2010</b>	4	36	11
<b>2011</b>	8	47	17
<b>2012</b>	4	50	8
<b>2013</b>	1	53	2
<b>2014</b>	1	46	2
<b>2015</b>	0	40	0
<b>2016</b>	1	49	2
<b>2017</b>	0	50	0
<b>2018</b>	2	45	4
<b>2019</b>	4	43	9
<b>2021</b>	5	57	9
<b>2022</b>	0	27	0
<b>2023</b>	1	51	2
<b>2024</b>	0	47	0
<b>Seguin Township (08-24)</b>	43	713	6.1
<b>LPP (02-16)</b>	23	455	5.1

Outliers from the data set were identified using the Dixon's Q and Grubbs' outlier tests<sup>2</sup> at a significance level of  $\alpha = 0.05$ . Eleven values were identified as outliers in the 2002-2024 data set and were removed from the dataset prior to analysis (Table 2). No new outliers were identified in the 2024 data.

<sup>2</sup> For lakes with 3 to 10 years of data, a sample was considered to be an outlier based on both the Dixon and Grubb's test. For lakes with more than 10 years of data, only the Grubb's test was used to identify outliers.



**Table 2. Outlier Total Phosphorus Values (2002-2024)**

Lake	Year	Outlier TP (µg/L)	Mean 2002-2024 TP (µg/L) (outlier excluded)
<b>Armishaw Lake</b>	2018	14.1	5.4
<b>Blackwater Lake</b>	2008	16.2	9.5
<b>Cosh Lake</b>	2008	21.0	7.0
<b>Gilbank Lake</b>	2006	13.9	7.1
<b>Little Whitefish Lake</b>	2006	10.1	5.1
<b>Maple Lake</b>	2002	18.2	10.2
<b>McKechine Lake</b>	2021	9.8	4.3
<b>Murdock Lake</b>	2018	68.8	11.2
<b>Oastler Lake</b>	2014	10.8	6.8
<b>Salmon Lake</b>	2002	13.2	5.8
<b>Scott Lake</b>	2013	12.3	5.4

## 1.2 Summary

Mean spring total phosphorus concentrations for the 97 lakes with data from 2002 to 2024 ranged from 3.6 to 21.38 µg/L, with an overall average of 8.05 µg/L (Table 3). Seventy-nine (79) of the lakes had spring TP concentrations ≤10 µg/L, which provides a high level of protection against aesthetic deterioration due to excessive algal production in lakes (MOE 1994). Five new lakes were added to the dataset in 2024, Cochrane Lake, Dick Lake, Hamer Lake, Heaslip Lake and Lovell Lake.

The MOECP recommends a minimum of two years of spring overturn TP data to be 95% confident of being within 20% of the mean spring concentration of a lake (Clark and Hutchinson 1992). Eighty-eight (88) lakes in Seguin Township now meet or exceed the minimum monitoring data requirements to provide reliable estimates of long term, spring total phosphorus concentrations.

Mann Kendall trend analysis was used to determine whether TP concentrations were changing significantly over time (2002-2024) in lakes with at least 10 years of data. Thirty-seven (37) lakes in the data set met the criteria for trend analysis. No significant increasing trends in total phosphorus were detected.



**Table 3. Mean Spring Total Phosphorus (TP) Concentrations in Seguin Township Lakes (n=97)**

Lake name	TP 2024 (µg/L)	# of Years Sampled (02-24)	Mean TP (02-24) (µg/L)
Anselmi Lake		1	8.9
Armishaw Lake		5	5.4
Baby Lake	7.9	11	9.1
Back Lake		7	7.9
Blackwater Lake	11.6	11	9.6
Blue Lake		10	4.0
Brennan Lake	12.9	7	10.7
Brush Lake		7	5.4
Burr Lake	6.8	5	7.3
Caption Lake		5	7.2
Carruthers Lake	7.0	5	6.4
Clear Lake		18	3.6
Cochrane Lake	10.8	1	10.8
Cosh Lake		7	7.0
Diamond Lake		8	9.2
Dick Lake	10.6	1	10.6
Draper Lake	13.9	9	8.3
Dyson Lake	5.6	12	5.0
Fair Lake		7	7.2
Faris Lake		8	4.2
First Lake	10.3	10	8.1
Flaxman Lake		6	4.5
Forget Lake	8.0	10	6.4
Gerow Lake	9.1	5	9.4
Gilbank Lake		13	7.1
Haines Lake		8	7.9
Hamer Lake	9.0	1	9.0
Heaslip Lake	6.7	1	6.7
Home Lake	25.9	2	21.4
Hooton Lake	7.9	5	6.5



Lake name	TP 2024 (µg/L)	# of Years Sampled (02-24)	Mean TP (02-24) (µg/L)
Horseshoe Lake	7.1	20	7.2
Isabella Lake		19	9.5
Joselin (Burnt) Lake		19	5.9
Kight Lake		6	10.9
Kingshott Lake		7	9.7
Lake Adele	15.0	5	19.7
Lake Leba	12.3	5	11.9
Lane Lake	5.8	10	5.9
Lieback Lake		5	5.7
Limestone Lake		1	7.3
Linger Long (Napken) Lake	10.4	10	9.3
Lioness Lake	11.4	4	9.3
Little Lake Joe	7.8	10	6.4
Little Otter Lake	11.9	9	7.7
Little Seguin/Duck Lake		17	9.6
Little Whitefish Lake	5.1	17	5.1
Long Lake		8	6.2
Long Lake 1		3	4.3
Lovell Lake	9.2	1	9.2
Lower Fry Lake		8	12.9
Manitouwaba Lake		18	6.2
Maple Lake		14	10.2
Martin Lake		9	6.7
McDonald Lake	10.6	10	8.9
McGown Lake		19	5.1
McKechine Lake		7	4.3
McLean Lake		7	7.6
McNutt Lake	10.6	12	10.1
McTaggart Lake	10.1	4	10.4
Mill Lake	9.5	2	8.0
Mirror Lake		8	7.0



Lake name	TP 2024 (µg/L)	# of Years Sampled (02-24)	Mean TP (02-24) (µg/L)
Mohan Lake	8.3	2	6.9
Murdock Lake		6	11.4
Mutton Lake		7	9.7
Neville Lake		7	11.6
Oastler Lake		18	6.5
Otter Lake		20	6.1
Pender Lake		6	5.7
Pickering Lake	11.6	10	13.2
Portage Lake		10	5.9
Rankin Lake		18	8.4
Richmond Lake	8.1	6	7.0
Roberts Lake	14.0	10	7.9
Salmon Lake		18	5.7
Scime Lake		2	9.3
Scott Lake	6.2	8	5.5
Second Lake		8	11.4
Sovereign Lake	7.7	3	6.7
Star Lake		18	10.1
Storm Lake		6	6.3
Sucker Lake		11	6.0
Sugar Lake		19	6.7
Ten Mile Lake		5	9.9
Third Lake		7	10.4
Three-Legged Lake		15	4.9
Tiffin Lake/Silver	6.7	10	6.6
Trout Lake	5.5	9	5.1
Tub Lake		6	7.0
Tucker Lake		11	8.7
Turtle Lake	6.1	16	8.0
Upper Fry Lake		18	14.0
Virtue Lake	11.1	11	10.0



Lake name	TP 2024 (µg/L)	# of Years Sampled (02-24)	Mean TP (02-24) (µg/L)
Watson Lake	12.2	4	9.3
Whitefish Lake		13	4.5
Windfall Lake		7	8.0
Wright Lake		1	6.4
Yarrow Lake	11.5	6	9.6

## 2. Dissolved Organic Carbon and Major Ions

Water quality samples were collected and analyzed for dissolved organic carbon during the spring sampling, however samples were not collected for major ions in 2024.

Past sampling performed for the Township of Seguin has focused on the qualitative assessment of dissolved organic substances by water colour observation, however, beginning in 2017 dissolved organic carbon (DOC) samples were also collected to begin to better quantify DOC and identify lakes in which TP concentrations reflect elevated DOC concentrations. Dissolved organic carbon sampling was performed for the fifth time in the 2024 monitoring campaign. Water samples were collected and submitted to the water chemistry lab at ALS for analysis (Table 4). DOC is the dominant factor explaining TP concentrations in Precambrian Shield Lakes and lakes sampled by the District of Muskoka Lake System Health Program show a significant relationship of TP to DOC (HESL 2016). Lakes with high DOC concentration (i.e., >10 mg/L) will have naturally enriched TP concentrations and may not model well because they fall outside the range of DOC in lakes that were used to develop and calibrate the Province's Lakeshore Capacity Model (Ontario, 2010) which was used as the basis of the Seguin Water Quality Model. One lake sampled in 2024 (Pickering Lake) had DOC concentrations above 10 mg/L (Table 4) but Palmer and Yan (2013) reported that DOC concentrations are increasing in Muskoka area lakes. We recommend continued DOC sampling to expand the DOC data set in Seguin and inform future modelling.

## 3. August Field Sampling

Dissolved oxygen and temperature profiles, and lake depth were monitored (Table 5) at 29 study sites in August 2024. Of the lakes monitored, twelve were shallow and mixed to the bottom. Sixteen of the lakes displayed low oxygen concentrations (<2.0 mg/L) within 1 m of the lake bottom. These lakes have potential for internal phosphorus loading via hypolimnetic anoxia and were therefore sampled for total phosphorus at the surface and in the deep water (Table 5). In one lake (i.e., Lake Adele) only the bottom-most interval displayed low oxygen concentrations which may suggest sampling error (i.e., interference of sediment with measurement), avoiding this issue in the future will be discussed during training in 2025.

The Seguin Township monitoring program collected samples for total phosphorus from 1 meter above bottom (1mob) to document the potential for phosphorus release from lake sediments (internal loading) in lakes whose dissolved oxygen concentrations fell below 2.0 mg/L (n=16, Table 5). Of the 21 top/bottom



samples, 1 collected in Little Whitefish Lake had no increase between the top and bottom sample. All of the remaining sites sampled in fall of 2024 showed higher phosphorus concentrations in the bottom sample. The magnitude of the increase was small in Forget, Hooton, Little Whitefish, Richmond and Turtle lakes indicating that the increase was more likely related to settling of particulate phosphorus from the surface waters than to internal loading. In Baby, Blackwater, Joselin (Burnt), Dick, Adele, Mohan and Scott lakes, we recorded a marked increase in bottom water total phosphorus concentrations suggesting internal loading is likely contributing phosphorus to these water bodies. Continued top/bottom sampling of Seguin Township lakes is recommended to identify any additional lakes which may experience internal loading of phosphorus and inform future modelling efforts.

**Table 4. Summary of Dissolved Organic Carbon Sampling Conducted in 2024.**

<b>Lake Name</b>	<b>Results</b>	<b>Date Sampled</b>
Baby Lake	4.8	06-Jun-2024
Blackwater Lake	7.47	22-May-2024
Brennan Lake	5.64	31-May-2024
Burr Lake	7.58	12-Jun-2024
Carruthers Lake	5.76	22-May-2024
Cochrane Lake	3.69	05-Jun-2024
Dick Lake	6	29-May-2024
Draper Lake	4.32	29-May-2024
Dyson Lake	3.81	17-May-2024
First Lake	4.72	16-May-2024
Forget Lake	3.72	16-May-2024
Garrow Lake	4.74	17-May-2024
Hamer Lake	11.3	06-Jun-2024
Heaslip Lake	5.64	23-May-2024
Home Lake	7.83	11-Jun-2024
Hooton Lake	5.04	30-May-2024
Joselin (Burnt) Lake	5.87	04-Jun-2024
Lake Adele	9.32	27-May-2024
Lake Leba	5.13	27-May-2024
Lane Lake	5.51	22-May-2024
Lingerlong Lake	7.58	24-May-2024
Lioness Lake	5.22	31-May-2024
Little Lake Joe	4.17	29-May-2024
Little Otter Lake	4.74	24-May-2024
Little Whitefish Lake-6	4.35	03-Jun-2024
Little Whitefish Lake-7	4.2	03-Jun-2024
Little Whitefish Lake-8	4.16	16-May-2024
Lovell Lake	6.56	23-May-2024
McDonald Lake	6.82	24-May-2024
McNutt Lake	7.22	05-Jun-2024
McTaggart Lake	8.19	04-Jun-2024



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Mill Lake	6.97	11-Jun-2024
Mohan Lake	5.02	21-May-2024
Pickering Lake	10.8	17-May-2024
Richmond Lake -2	5.29	23-May-2024
Richmond Lake -3	5.2	23-May-2024
Roberts Lake	8.16	31-May-2024
Scott Lake	3.34	07-Jun-2024
Sovereign Lake	7.95	30-May-2024
Tiffin (Silver) Lake	7.37	04-Jun-2024
Trout Lake	3.42	15-May-2024
Turtle Lake	5.3	15-May-2024
Virtue Lake	5.55	10-Jun-2024
Watson Lake	6.8	15-May-2024
Yarrow Lake	5.54	21-May-2024

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**Table 5. Summary of August 2024 Field Sampling Results.**

Lake	Depth (m)	Surface Water Temperature (°C)	Dissolved Oxygen (mg/L) <sup>1</sup>	Potentially Anoxic Hypolimnion? <sup>2</sup>	Shallow Mixed Water Column? <sup>3</sup>	Total Phosphorus Top (mg/L)	Total Phosphorus Bottom (mg/L)
Baby Lake	9	21.6	0.42	Y	N	6.05	34.0
Blackwater Lake	7	22.5	0.21	Y	N	8.51	26.4
Joselin (Burnt) Lake	10	21.8	0.64	Y	N	4.74	53.6
Dick Lake	10	24.3	0.28	Y	N	4.62	97.7
Forget Lake	24	25.0	0.9	Y	N	3.53	7.5
Hooton Lake	8	22.6	0.84	Y	N	5.29	8.79
Lake Adele	2	22.5	0.43	Y	Y	12.6	64.1
Lioness Lake	8	21.8	0.5	Y	N	4.64	108
Little Whitefish Lake	12	21.3	0.91	Y	N	9.79	4.3
Little Whitefish Lake	11	21.1	1.1	Y	N	3.97	8.9
Little Whitefish Lake	28	21.4	0.31	Y	N	4.37	8.67
Mohan Lake	14	22.8	0.19	Y	N	5.79	52.2
Richmond Lake	8	24.1	0.82	Y	N	4.64	8.01
Richmond Lake	6	23.8	1.75	Y	N	5.46	19.70
Scott Lake	20	23.0	0.21	Y	N	4.13	91.3
Turtle Lake	15	21.0	0.2	Y	N	6.71	18.7
Brennan Lake	3	23.5	5.81	N	Y		
Carruthers Lake	3	22.9	7.55	N	Y		
Draper Lake	3	24.2	8.26	N	Y		
Dyson Lake	14	23.8	4.33	N	N		
First Lake	2	24.3	9.15	N	Y		
Lake Leba	4	23.9	6.64	N	Y		
Lane Lake	5	23.1	5.6	N	Y		
Linger Long (Napken)	2	21.1	8.47	N	Y		
Little Otter Lake	4	24.1	7.77	N	Y		
McDonald Lake	2	20.6	9.61	N	Y		
Roberts Lake	3	20.7	7.55	N	Y		
Trout Lake	10	21.9	2.59	N	N		
Yarrow Lake	2	22.4	6.2	N	Y		

<sup>1</sup>value in brackets is the deepest D.O. measurement; <sup>2</sup>mean hypolimnetic dissolved oxygen concentration <2.0 mg/L; <sup>3</sup>weak stratification refers to lakes that have a thermocline (>1°C change/1 m depth) that extends to the lake bottom.



## 4. Summary and Recommendations

The 2024 Seguin Water Quality Monitoring Program successfully expanded our understanding of water quality in the Township. Samples were collected for total phosphorus, dissolved oxygen, and temperature, providing important data to inform the ongoing assessment of development capacities and aid in the identification of emerging lake health issues in the Township.

The key results of this years monitoring program and recommendations for future sampling are:

- ❁ A total of 97 of 129 lakes (75%) in Seguin Township have measured spring total phosphorus concentration data, and 85 of these lakes have at least 3 years of data as of the end of the 2024 sampling season. It is important that Seguin Twp. continue to build this record to inform their lake management program.
- ❁ August monitoring of dissolved oxygen, temperature, and lake depth was completed for 29 sites in 2024. These data have been useful to flag lakes where internal loading of phosphorus may pose future management challenges. Continued expansion of this database to include additional lakes and to look for changes over time is recommended but should not be considered authoritative as the sampling period ends well before the end of the period of stratification and so does not capture the maximum oxygen stress.
- ❁ We recommend that the monitoring program continue with the focus on lakes that have little or no TP data ('B' lakes), while expanding the long-term monitoring of more frequently monitored lakes and include the collection of top/bottom total phosphorus samples in low oxygen lakes.
- ❁ Quantitative analysis of DOC was carried out in 2024 for the fifth time. The majority (n=85) of the lakes that are assessable and frequently sampled by the Township now have at least a single year of DOC data. Some "B" lakes (n=44) have not yet been sampled for DOC, however we note that many of these lakes have not been sampled for total phosphorus due to accessibility issues. HESL will work with Seguin Township to select the most appropriate lakes for additional DOC sampling and discuss the future of DOC as a part of the long-term monitoring program. A combination of adding new lakes to the dataset and re-assessing DOC concentrations in some previously sampled lakes will provide both new data but also an understanding of year-to-year variability in the region.
- ❁ Outlier and bad split assessments suggest that the sampling in 2024 was excellent. It is important to reinforce the need for proper field protocol for sample collection and record keeping among the student crew. We recommend that an orientation "refresher" continue to be conducted for the students prior to the August sampling with additional attention to dissolved oxygen sampling methods.

## 5. References

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## Appendix A. Seguin Township 2025 Lake Sampling Recommendations

Lake Name	ID
Armishaw Lake	5041
Back Lake	165
Blue Lake	477
Brush Lake	611
Capton Lake	741
Clear Lake	888
Cosh Lake	7519
Diamond Lake	1184
Fair Lake	7571
Faris Lake	1430
First Lake	1470
Flaxman Lake	1499
Gilbank Lake	1649
Haines Lake	1822
Home Lake	2002
Hooton Lake	2007
Horseshoe Lake	2026
Horseshoe Lake	2026
Horseshoe Lake	2026
Isabella Lake	2103
Joselin (Burnt) Lake	6947
Kight Lake	2318
Kingshott Lake	2335
Lieback Lake	2547
Lioness Lake	2572
Little Otter Lake	4196
Little Seguin/Duck Lake	2715
Long Lake	2777
Lower Fry Lake	4719
Manitouwaba Lake	2972
Maple Lake	2983
Martin Lake	3028
McGown Lake	6044
McKechine Lake	3125



McLean Lake	7541
McNutt Lake	3154
Mirror Lake	7545
Murdock Lake	7587
Mutton Lake	3407
Neville Lake	3455
Oastler Lake	4117
Otter Lake	4193
Pender Lake	4303
Pickering Lake	4358
Portage Lake	4433
Rankin Lake	4545
Richmond Lake	4623
Richmond Lake	4623
Salmon Lake	4759
Scime Lake	7542
Second Lake	4856
Sovereign Lake	7650
Star Lake	5155
Storm Lake	5179
Sucker Lake	5214
Sugar Lake	5221
Ten Mile Lake	5330
Third Lake	5340
Three-Legged Lake	5360
Tiffin Lake/Silver	5373
Tub Lake	7544
Tucker Lake	5472
Upper Fry Lake	5605
Whitefish Lake	5857
Windfall Lake	5920
Wright Lake	5973
Yarrow Lake	7543



## Appendix B. Seguin Township Lake List



Lake Name	2009 Model Lake	Accessible?	DOC	'A'	'B'
1	26	-			x
2	27	-			x
3	1	-			x
4	100	-			x
5	87	-			x
7	89	-			x
8	126	-			x
9	127	-			x
10/Good Lake	95	No			x
6/Vinett Lake	88	All Marsh			x
Aikman Lake	54	Yes			x
Anselmi Lake	101	No			x
Armishaw Lake	102	Yes	x	x	
Baby Lake	61	Yes	X	x	
Back Lake	49	Yes	x	x	
Bennett Lake	28	-			x
Black Water Lake	97	Yes	X	x	
Blue Lake	2	Yes	x	x	
Brennan Lake	15	Yes	x	x	
Brush Lake	103	Yes	x		x
Burr Lake	104	Yes			x
Capton Lake	50	-	x	x	
Carruthers Lake	62	Yes			x
Carter Lake	105	-			x
Catfish Lake	29	-			x
Clear Lake	63	Yes	x	x	
Clear Lake 1	30	-			x
Clubbe Lake	106	No			x
Cochrane Lake	51	Yes			x
Cosh Lake	64	Yes	x	x	
Dainty Lake	65	No			x
Dell Lake	44	-			x
Diamond Lake	66	Yes	x	x	
Dick Lake	107	Yes			x
Draper Lake	108	Yes	X	x	
Dyson Lake	109	Yes	X	x	
Fair Lake	110	Yes	x	x	
Faris Lake	67	Yes	x	x	
First Lake	16	Yes	X	x	
Flaxman Lake	17	Yes	x	x	
Forget Lake	31	Yes	x	x	
Fume Lake	90	No			x
Gerow Lake	111	Yes			x
Gilbank Lake	68	Yes	X	x	
Haines Lake	42	Yes	x	x	
Hamer Lake	112	Yes			x
Heaslip Lake	32	Yes			x
Hines Lake	33	-			x
Home Lake	45	Yes			x
Hooton Lake	55	Yes	x		x
Horn Lake	84	No			x
Horseshoe Lake (includes Virtue	18	Yes	X	x	
Hurst Lake	113	No			x
Isabella Lake	60	Yes	x	x	



Jelso Lake	91	No			x
Joselin (Burnt) Lake	34	Yes	x	x	
Kight Lake	52	Yes	x	x	
Kingshott Lake	35	Yes	x	x	
Krapek Lake	114	No			x
Lane Lake	43	Yes	X	x	
Lieback Lake	69	Yes	x	x	
Linger Long Lake/Napken	3	Yes	X	x	
Lioness Lake	19	Yes	x		x
Lipscombe Lake	56	No			x
Little Manitouwaga Lake	98	No			x
Little Seguin/Duck Lake	70	Yes	x	x	
Little Whitefish	71	Yes	X	x	
Long Lake	53	Yes	x	x	
Long Lake 1	72	Yes		x	
Loucks Lake	115	No			x
Lovell Lake	4	Yes			x
Lower Fry Lake	85	Yes	x	x	
Manitouwaba Lake	99	Yes	x	x	
Maple Lake	73	Yes	X	x	
Martin Lake	74	Yes	x	x	
McCan Lake	116	No			x
McCauley Lake	75	No			x
McCoy Lake	57	No			x
McDonald Lake	5	Yes	x	x	
McGowan Lake	36	Yes	x	x	
McGruther Lake	46	-			x
McKechine Lake	37	Yes	x	x	
McLean Lake	76	Yes	x	x	
McNutt Lake	47	Yes	x	x	
McTaggart Lake	117	Yes			x
Mirror Lake	118	Yes	X	x	
Mohan Lake	77	No			x
Motley Lake	119	No			x
Murdock Lake	6	Yes	x	x	
Mutton Lake	78	Yes	x	x	
Neville Lake	48	Yes	X	x	
Oak Lake	38	No			x
Oastler Lake	7	Yes	x	x	
One Island Lake	39	No			x
Otter Lake	8	Yes	X	x	
Payne Lake	40	No			x
Pender Lake	20	Yes	x	x	
Pickering Lake	120	No	x		x
Ponsford Lake	79	No			x
Portage Lake	128	Yes	X	x	
Rankin Lake	9	Yes	x	x	
Richmond Lake	41	Yes			x
Roberts Lake	121	Yes	X	x	
Salmon Lake	10	Yes	X	x	
Santa Lake	96	-			x
Scime Lake	11	Yes		x	
Scott Lake	12	Yes	x	x	
Second Lake	21	Yes	x	x	
Sovereign Lake	13	Yes	x		x
Spectacle Lake	22	-			x
Star Lake	80	Yes	x	x	
Storm Lake	94	Yes	x	x	



Sucker Lake	122	Yes	X	x	
Sugar Lake	81	Yes	X	x	
Tarver Lake	58	No			x
Ten Mile Lake	92	Yes	x	x	
Third Lake	23	Yes	x	x	
Three-Legged Lake	59	Yes	X	x	
Tiffin/Silver Lake	123	Yes	x	x	
Trout Lake	72.5	Yes	x	x	
Tub Lake	93	Yes	x	x	
Tucker Lake	124	Yes	X	x	
Turtle	82	Yes	X	x	
Upper Fry Lake	86	Yes	x	x	
Watson Lake	125	Yes			x
Whitefish Lake	83	Yes	X	x	
Windfall Lake	24	Yes	x	x	
Wright Lake	14	Yes			x
Yarrow Lake	25	Yes	x	x	

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