

Table 1: General Water Quality Results for Great Slave Lake sampling in August 2020 compared to historic results.

	Site	Great Slave lake @ East Yellowknife bay 2020-08-26	Great Slave Lake @ Central Yellowknife bay 2020-08-26	Great Slave Lake @ West Bay 2020-08-26	Great Slave lake @ Gros Cap 2020-08-17	Great Slave lake @ Burnt Island 2020-08-17	Hearne Channel @ Blanchet Island 2020-08-17	Etthen Island 2020-08-17	Taltheilli Narrows @ Plumbers Lodge 2020-08-17	Taltheilli historic record	Dettah 2020-08-26	Dettah Maximum 2013-19	N'dilo 2020-08-26	N'dilo Maximum 2013-2019
Major Ions	Chloride (mg/L)	7.20	7.10	7.20	6.70	7.00	6.70	6.50	1.90	-	7.30	7.30	2.60	6.70
	Fluoride (mg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	0.10	< 0.1	0.10
	Reactive Silica (mg/L)	3.56	3.65	3.80	3.80	3.71	3.09	2.73	0.65	-	3.25	3.35	0.49	2.57
	Sulphate (mg/L)	22.00	22.00	22.00	21.00	22.00	19.00	17.00	3.00	-	21.00	26.00	4.00	21.00
	Total Alkalinity, as CaCO ₃ (mg/L)	77.60	78.90	79.40	78.90	79.40	71.50	68.20	16.30	-	76.50	77.80	23.10	73.70
Micro-biology	Chlorophyll a (µg/L)	3.10	1.20	< 1.0	1.20	3.40	< 1.0	4.90	< 1.0	-	3.20	8.53	< 1.0	4.26
	E. coli (MPN/100mL)	< 1.0	< 1.0	< 1.0	-	-	5.60	-	-	-	< 1.0	25.90	< 1.0	3.10
	Enterococci (MPN/100mL)	< 1.0	1.00	< 1.0	-	-	5.40	-	-	-	3.10	8.60	2.00	3.00
	Fecal Coliform (CFU/100mL)	< 1	1.00	< 1	-	-	0.25	-	-	-	3.00	21.00	< 1	2.00
	Total Coliform (MPN/100mL)	13.40	8.60	< 1.0	-	-	0.10	-	-	-	35.00	281.00	1200.00	411.00
Nutrients	Nutrients-C, Dissolved Organic Carbon (DOC) (mg/L)	6.30	6.70	6.80	7.30	7.50	0.14	5.00	2.60	-	5.80	6.10	5.50	6.10
	Nutrients-C, Total Organic Carbon (TOC) (mg/L)	7.30	7.30	7.70	6.80	7.70	0.04	4.90	2.30	-	6.70	7.10	6.50	7.10

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	Nutrients-N, Dissolved Nitrogen (mg/L)	0.31	0.29	0.31	0.33	0.30	0.01	0.20	0.19	-	0.24	0.28	0.24	0.28
	Nutrients-N, Nitrate, as N (mg/L)	0.10	0.11	0.12	0.12	0.14	0.27	0.07	0.05	-	0.07	0.47	0.03	0.32
	Nutrients-N, Nitrate/Nitrite, as N (mg/L)	0.16	0.17	0.18	0.16	0.18	< 0.002	0.11	0.09	-	0.13	0.47	0.09	0.32
	Nutrients-N, Nitrite, as N (mg/L)	0.06	0.06	0.06	0.04	0.04	0.01	0.04	0.03	-	0.06	0.01	0.06	0.01
	Nutrients-N, Total Ammonia, as N (mg/L)	0.01	< 0.005	< 0.005	0.01	0.01	< 0.002	0.01	0.01	-	< 0.005	0.05	< 0.005	0.05
	Nutrients-N, Total Nitrogen (mg/L)	0.36	0.34	0.37	0.38	0.41	-	0.30	0.19	-	0.32	0.38	0.29	0.32
	Nutrients-P, Dissolved Phosphorus (DP) (mg/L)	0.01	0.01	0.01	0.01	0.01	-	< 0.002	< 0.002	-	0.00	0.01	< 0.002	0.00
	Nutrients-P, Total Phosphorus (mg/L)	0.03	0.03	0.03	0.05	0.05	-	0.02	0.00	-	0.02	0.01	0.01	0.01
	Nutrients-P, o-Phosphate, as P (mg/L)	< 0.002	< 0.002	0.00	0.01	0.00	-	< 0.002	< 0.002	-	< 0.002	0.01	< 0.002	0.00

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Inorganics-Physicals	Specific Conductivity (µS/cm)	223.00	224.00	227.00	221.00	222.00	204.00	193.00	48.50	174.00	219.00	226.00	66.00	211.00
	Total Dissolved Solids (TDS) (mg/L)	133.00	137.00	145.00	147.00	138.00	115.00	118.00	38.00	100.00	117.00	150.00	28.00	123.00
	Total Suspended Solids (TSS) (mg/L)	4.00	< 3	6.00	6.00	6.00	< 3	< 3	< 3	10.00	4.00	6.00	< 3	7.00
	Turbidity (NTU)	13.20	16.30	22.70	33.90	27.50	6.27	1.78	0.99	1.40	7.99	5.84	1.64	3.75
	pH (unitless)	8.01	8.00	8.01	7.99	8.00	7.98	8.05	7.40	8.00	8.05	8.29	7.46	8.16
Trace Metals, Total	Aluminum (µg/L)	429.00	485.00	666.00	559.00	443.00	122.00	37.80	38.10	38.90	247.00	252.00	71.00	170.00
	Antimony (µg/L)	0.10	0.10	0.20	0.10	0.10	0.10	< 0.1	< 0.1	0.10	0.10	0.20	0.10	0.90
	Arsenic (µg/L)	0.60	0.60	0.80	0.80	0.70	0.40	0.30	< 0.2	5.00	0.60	2.10	1.00	3.60
	Barium (µg/L)	55.00	56.80	63.70	64.40	62.60	46.20	40.00	10.10	9.85	49.10	47.60	6.20	43.60
	Beryllium (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.10	< 0.1	0.10	< 0.1	0.10
	Bismuth (µg/L)	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	-	< 0.2	0.20	< 0.2	0.20
	Boron (µg/L)	16.00	15.60	17.00	17.70	17.50	15.10	13.50	4.00	-	15.40	16.00	6.10	14.10
	Cadmium (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.04	10.00	< 0.1	0.20	< 0.04	0.20
	Cesium (µg/L)	< 0.1	< 0.1	0.10	0.20	0.10	< 0.1	< 0.1	< 0.1	0.10	< 0.1	0.10	< 0.1	0.10
	Chromium (µg/L)	0.70	0.70	1.00	0.90	0.70	0.30	0.10	< 0.1	6.00	0.40	0.50	0.20	0.80

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	Cesium (µg/L)	< 0.1	< 0.1	0.10	0.20	0.10	< 0.1	< 0.1	< 0.1	0.10	< 0.1	0.10	< 0.1	0.10
	Chromium (µg/L)	0.70	0.70	1.00	0.90	0.70	0.30	0.10	< 0.1	6.00	0.40	0.50	0.20	0.80
	Cobalt (µg/L)	0.10	0.20	0.30	0.40	0.30	< 0.1	< 0.1	< 0.1	1.00	< 0.1	0.10	< 0.1	0.10
	Copper (µg/L)	1.90	2.30	2.50	2.80	2.60	1.60	1.20	0.60	3.00	1.60	1.40	0.70	2.00
	Iron (µg/L)	422.00	517.00	792.00	1000.00	788.00	196.00	42.00	30.00	143.00	244.00	179.00	45.00	98.00
	Lead (µg/L)	0.30	0.30	0.50	0.60	0.50	< 0.1	< 0.1	< 0.1	2.00	0.10	0.20	< 0.1	0.40
	Lithium (µg/L)	4.30	4.30	4.80	4.80	4.70	3.80	3.50	1.20	1.45	4.10	4.30	1.80	3.90
	Manganese (µg/L)	4.60	5.30	8.60	11.40	9.30	2.30	0.70	0.80	1.40	3.20	3.60	2.90	3.60
	Mercury (ng/L)	1.00	1.30	2.00	3.00	2.30	0.70	0.30	< 0.2		0.40	0.07	< 0.2	0.03
	Mercury (µg/L)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.16	< 0.01	1.10	< 0.01	1.60
	Molybdenum (µg/L)	0.90	0.90	0.90	0.80	0.90	0.80	0.70	0.20	0.15	0.80	0.80	0.10	0.70
	Nickel (µg/L)	1.70	1.80	2.30	2.60	2.30	1.30	1.00	0.40	10.00	1.40	1.10	0.50	1.50
	Rubidium (µg/L)	1.50	1.60	2.00	2.10	1.80	1.00	0.80	1.00	0.95	1.20	1.80	2.20	2.00
	Selenium (µg/L)	< 0.5	< 0.5	< 0.5	< 0.5	0.50	< 0.5	< 0.5	< 0.3	0.30	< 0.5	0.60	< 0.3	0.60
	Silver (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.10	< 0.1	0.20	< 0.1	0.20
	Strontium (µg/L)	137.00	139.00	146.00	134.00	139.00	123.00	112.00	24.30	22.25	138.00	140.00	30.80	133.00
	Thallium (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.10	< 0.1	0.10	< 0.1	0.10
	Tin (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	0.10	< 0.1	0.10
	Titanium (µg/L)	12.50	13.70	19.10	7.70	7.00	2.00	1.20	2.00	1.90	7.70	9.60	1.80	4.90

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	Uranium (µg/L)	0.50	0.50	0.50	0.50	0.50	0.40	0.40	0.20	0.20	0.40	0.40	0.20	0.40
	Vanadium (µg/L)	1.50	1.80	2.40	2.20	1.80	0.60	0.30	0.10	0.10	0.70	0.60	0.20	0.30
	Zinc (µg/L)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.4	30.00	< 5.0	7.80	0.50	5.00
Trace metals, Dissolved	Aluminum (µg/L)	2.90	3.00	3.80	2.90	2.30	1.70	0.60	1.20	-	2.50	21.90	6.00	27.10
	Antimony (µg/L)	0.10	0.10	0.10	0.10	0.10	< 0.1	< 0.1	< 0.1	-	0.10	0.30	0.10	1.00
	Arsenic (µg/L)	0.40	0.40	0.40	0.40	0.40	0.30	0.30	< 0.2	-	0.40	1.80	1.00	3.20
	Barium (µg/L)	49.60	49.80	52.10	50.20	50.30	44.00	41.10	10.00	-	46.50	45.60	5.50	41.60
	Beryllium (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	0.10	< 0.1	0.10
	Bismuth (µg/L)	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	-	< 0.2	0.70	< 0.2	0.40
	Boron (µg/L)	15.20	14.70	15.20	16.60	16.20	14.90	13.60	4.00	-	14.80	15.20	5.40	13.80
	Cadmium (µg/L)	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	-	< 0.04	0.10	< 0.04	0.08
	Cesium (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	0.10	< 0.1	0.20
	Chromium (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	0.10	< 0.1	0.10
	Cobalt (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	0.10	< 0.1	0.10
	Copper (µg/L)	1.40	1.50	1.60	1.70	1.60	1.20	1.90	0.40	-	1.20	1.40	0.60	2.20
	Iron (µg/L)	10.00	10.00	13.00	14.00	12.00	7.00	< 5	< 5	-	6.00	12.00	8.00	19.00
	Lead (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	0.20	< 0.1	0.10
	Lithium (µg/L)	4.00	3.90	4.10	4.20	4.20	4.00	3.60	1.20	-	4.00	4.30	1.70	3.80
	Manganese (µg/L)	0.30	0.30	0.40	0.60	0.70	0.40	0.20	0.20	-	0.20	1.50	0.50	2.10

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	Molybdenum (µg/L)	0.90	0.90	0.90	0.90	0.90	0.80	0.70	0.20	-	0.80	0.80	0.10	0.70
	Nickel (µg/L)	1.20	1.30	1.40	1.30	1.30	1.00	0.80	0.40	-	1.10	1.10	0.40	0.90
	Rubidium (µg/L)	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.90	-	0.80	1.60	2.00	1.90
	Selenium (µg/L)	0.30	< 0.3	0.30	0.40	0.40	0.40	0.40	< 0.3	-	0.40	0.80	< 0.3	0.70
	Silver (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	0.10	< 0.1	0.10
	Strontium (µg/L)	141.00	140.00	145.00	134.00	134.00	124.00	116.00	24.40	-	138.00	135.00	30.30	131.00
	Thallium (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	0.10	< 0.1	0.10
	Tin (µg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	0.10	< 0.1	0.10
	Titanium (µg/L)	0.20	0.20	0.20	0.30	0.20	0.20	< 0.1	< 0.1	-	0.10	0.40	< 0.1	0.50
	Uranium (µg/L)	0.50	0.50	0.50	0.50	0.50	0.40	0.40	0.20	-	0.40	0.50	0.20	0.40
	Vanadium (µg/L)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	< 0.1	-	0.20	0.20	0.10	0.20
	Zinc (µg/L)	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.50	< 0.4	-	< 0.4	1.00	< 0.4	0.60

Table 2: PAHs and Organics Water Quality Results from Great Slave Lake sampling in Summer 2020.

Parameters results in ng/L	Dettah	Great Slave Lake at Central Yellowknife Bay	Great Slave Lake at East Yellowknife Bay	Great Slave Lake at West Bay	N'Dilo
1,2,6-Trimethylphenanthrene	0	0.084	0.057	0.094	0
1,2-Dimethylnaphthalene	0	0.124	0.106	0.217	0
1,4,6,7-Tetramethylnaphthalene	0	0.113	0.101	0.21	0
1,7-Dimethylfluorene	0	0	0	0.104	0
1,7-Dimethylphenanthrene	0.125	0.341	0.278	0.572	0
1,8-Dimethylphenanthrene	0	0.077	0	0.106	0
1-Methylchrysene	0.047	0.145	0.097	0.255	0
1-Methylnaphthalene	0.532	0.59	0.516	0.925	0.837
1-Methylphenanthrene	0.231	0.542	0.431	0.832	0
2,3,5-Trimethylnaphthalene	0.16	0.465	0.327	0.673	0.087
2,3,6-Trimethylnaphthalene	0.235	0.548	0.475	0.925	0.105
2,4-Dimethyldibenzothiophene	0	0	0	0.141	0
2,6-Dimethylnaphthalene	0.326	0.513	0.509	0.896	0.184
2,6-Dimethylnaphthalene d-12	27.1	61.2	44.7	54.4	48.1
2,6-Dimethylphenanthrene	0.073	0.206	0.153	0.328	0
2/3-Methyldibenzothiophenes	0	0.136	0.114	0.25	0
2-Methylantracene	0	0	0	0	0
2-Methylfluorene	0	0.074	0	0.13	0
2-Methylnaphthalene	0.689	0.757	0.671	1.09	0.859
2-Methylnaphthalene d-10	19.6	54.6	38.6	48	46.9
2-Methylphenanthrene	0.279	0.72	0.597	1.09	0
3,6-Dimethylphenanthrene	0.092	0.165	0.136	0.302	0
3-Methylfluoranthene/Benzo[a]fluorene	0.243	0.542	0.473	0.865	0.026
3-Methylphenanthrene	0.23	0.482	0.404	0.772	0
4,6-Dimethyldibenzothiophene	0	0.135	0.124	0.223	0
5,9-Dimethylchrysene	0.072	0.21	0.162	0.345	0
5/6-Methylchrysene	0.046	0.115	0.097	0.185	0
7-Methylbenzo[a]pyrene	0	0	0.12	0.126	0
9/4-Methylphenanthrene	0.322	0.582	0.545	0.949	0
Acenaphthene	0	0.084	0.08	0.1	0
Acenaphthylene	0.07	0.036	0	0.041	0.212
Acenaphthylene d-8	29.4	61.9	46.4	56.8	49.2
Anthracene	0	0	0	0	0
Benz[a]anthracene	0.053	0.129	0.088	0.23	0
Benzo[a]anthracene d-12	76.2	80.6	74.1	79.9	79.3

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Benzo[a]pyrene	0	0.155	0.113	0.229	0
Benzo[a]pyrene d-12	73.2	76.4	67.9	74.6	77.2
Benzo[b]fluoranthene	0.189	0.538	0.376	0.763	0
Benzo[b]fluoranthene d-12	80.7	84.2	74.5	82.6	84.1
Benzo[e]pyrene	0.259	0.695	0.537	1.02	0
Benzo[ghi]perylene	0.197	0.532	0.413	0.733	0
Benzo[ghi]perylene d-12	64.9	67.3	54.4	59.7	73
Benzo[j,k]fluoranthenes	0.071	0.128	0.074	0.177	0
Benzo[k]fluoranthene d-12	79.6	83.3	74.2	81.4	79.7
Biphenyl	0.328	0.417	0.349	0.507	0.265
Biphenyl d-10	26.1	59.8	43.2	53.2	47.9
C1 Phenanthrenes/Anthracenes	1.06	2.33	1.98	3.64	0
C1-Acenaphthenes	0	0	0	0	0
C1-Benzo[a]anthracenes/Chrysenes	0.482	1.28	0.923	2.03	0
C1-Benzofluoranthenes/Benzopyrenes	0.396	2.41	1.21	3.57	0.923
C1-Biphenyls	0.347	0.523	0.513	0.776	0.503
C1-Dibenzothiophenes	0	0.377	0.21	0.769	0
C1-Fluoranthenes/Pyrenes	0.63	1.54	1.29	2.37	0.048
C1-Fluorenes	0.226	0.482	0.36	0.779	0.131
C1-Naphthalenes	1.22	1.35	1.19	2.02	1.7
C2 Phenanthrenes/Anthracenes	1.11	2.7	2.15	4.11	0.148
C2-Benzo[a]anthracenes/Chrysenes	0.339	1.05	0.763	1.58	0
C2-Benzofluoranthenes/Benzopyrenes	0.128	1.73	0.676	2.56	1.06
C2-Biphenyls	0.669	0.628	1.11	1.2	2
C2-Dibenzothiophenes	0.505	0.98	0.828	1.45	0.087
C2-Fluoranthenes/Pyrenes	1.02	2.18	1.78	3.24	0.06
C2-Fluorenes	0.524	1.2	1	1.6	0.141
C2-Naphthalenes	1.73	2.89	2.34	4.23	1.03
C3-Benzo[a]anthracenes/Chrysenes	0	0.478	0.25	0.7	0.317
C3-Dibenzothiophenes	0.271	0.633	0.421	0.953	0
C3-Fluoranthenes/Pyrenes	0.401	1.02	0.831	1.77	0

Parameters results in ng/L	Dettah	Great Slave Lake at Central Yellowknife Bay	Great Slave Lake at East Yellowknife Bay	Great Slave Lake at West Bay	N'Dilo
C3-Fluorenes	0.736	2.34	2.73	2.98	0.769
C3-Naphthalenes	1.27	2.32	2.01	3.74	0.538
C3-Phenanthrenes/Anthracenes	0.557	1.5	1.14	2.28	0.061
C4-Benzo[a]anthracenes/Chrysenes	0	0	0	0	0
C4-Dibenzothiophenes	0	0.299	0	0.416	0
C4-Fluoranthenes/Pyrenes	0.154	0.408	0.274	0.56	0.103
C4-Naphthalenes	0.351	1.17	1.11	1.93	0
C4-Phenanthrenes/Anthracenes	1.56	3.89	2.82	6.51	0.073
Chrysene	0.394	0.859	0.72	1.27	0.035
Chrysene d-12	82.5	83.1	77.1	83.1	80.8
Dibenz[a,h]anthracene	0	0.118	0.064	0.125	0
Dibenzo[a,h]anthracene d-14	56.7	61.9	48.7	54.6	66.5
Dibenzothiophene	0.066	0.147	0.119	0.24	0.027
Dibenzothiophene d-8	31.5	60.7	46.7	60.9	58.3
Fluoranthene	0.194	0.322	0.309	0.627	0.147
Fluoranthene d-10	56.8	72.9	62	72	72.7
Fluorene	0.062	0.139	0.076	0.215	0.073
Indeno[1,2,3-cd]pyrene	0.086	0.19	0.132	0.223	0
Indeno[1,2,3-cd]pyrene d-12	60.5	64.6	52	59.4	69.5
Naphthalene	1.57	1.05	0.986	1.41	3.34
Naphthalene d-8	17.2	47.3	32.9	43	46.9
Perylene	0.788	2.18	1.62	3.4	0
Perylene d-12	77.8	76.7	70	77.9	79
Phenanthrene	0.735	1.3	1.18	2.01	0.475
Phenanthrene d-10	41.3	72.6	56.6	70.2	66.2
Pyrene	0.22	0.493	0.425	0.757	0.073
Retene	0.485	1.08	0.789	1.73	0.06