Government of Newfoundland and Labrador

Last Edited: April 3, 2018

Lake Melville East of Little River
NF03QA0047
Grab Sample Data

Name	SampType	Sample#	SA/WS#	Samp-Date	Lab	Alkalinity (mg/l CaCO3)	Color (TCU)	Conductivity (uS/cm)	Hardness (mg/l CaCO3)	pH	TDS (mg/l)	TSS	Turbidity (NTU)	Boron (mg/l)	Bromide (mg/l)	Calcium (mg/l)	Chloride (mg/l)	Flouride (mg/l)	Potassium (mg/l)	Sodium (mg/l)	Sulphate (mg/l)	Ammonia (mg/l)	DOC	Nitrate(ite) (mg/l)	KjeldahlNitrogen (mg/l)	TotalPhosphorus (mg/l)	Aluminium (mg/l)	Antimony (mg/l)	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Copper (mg/l)	Iron (mg/l)	Lead (mg/l)	Magnesium (mg/l)	Manganese (mg/l)	Mercury (mg/l)	Nickel (mg/l)	Selenium (mg/l)	Uranium (mg/l)	Zinc (mg/l)	Temperature-Source	TOC (mg/L)	Sr (mg/L)	Remarks
Lake Melville	SI	2010-6075-00-SI-SP	WS-S-0000	6-Aug-10	AT	17	29	5690	570	7.18	3700		0.9	0.38	6.12	37	1740	0.15	39	891	228	0.04	3.4	0	0.24	0	0.09	0	0.003	0	0	0.001	0	0.11	0	116	0	0	0	0.013	0	0		3.3	0.57	Arsenic, mercury and selenium were analysed at Exova Pointe
Lake Melville	SI	2011-6304-00-SI-SP	WS-S-0000	27-May-11	AT	14	40	2560	227	6.76	1660	16	16.3	0.18	14.3	15	669	0	14	417	97	0	4.2	0	0.3	0.05	0.42	0	0	0.01	0	0.001	0.002	0.44	0	46	0.02	0	0	0	0	0		4.3	0.298	Holding time for turbidity analysis was exceeded. Arsenic MRL elevated due to matrix interference.
Lake Melville	SI	2011-6315-00-SI-SP	WS-S-0000	29-Jun-11	AT	26	30	7430	673	7.28	4830	20	3.3	0.54	7.35	47	2160	0.17	46	1240	274	0.03	3.7	0	0.12	0.02	0.22	0	0	0.01	0	0.002	0.001	0.24	0	135	0	0	0	0	0	0	13	4.2	0.803	Holding time for turbidity analysis was exceeded. Sample was subcontracted to Pointe-Claire for Arsenic analysis.
Lake Melville	SI	2011-6327-00-SI-SP	WS-S-0000	3-Aug-11	AT	29	28	8940	802	6.97	6260	20	2.6	0.56	0	54	2700	0.21	59	1550	373	0	3.6	0	0	0.03	0.2	0	0.002	0.01	0	0.002	0.002	0.21	0	162	0	0	0	0	0	0	17	3.8	0.842	Holding time for turbidity analysis was exceeded. Br MRL elevated due to matrix interference. Sample was subcontracted to Exova
Lake Melville	SI	2012-6303-00-SI-SP	WS-S-0000	29-Jun-12	AT	14	43	2750	243	6.98	1790	13	1.1	0.12	3.18	15	752	0	16	430	101	0	4.1	0	0.1	0.02	0.13	0	0	0.01	0	0	0.002	0.17	0	50	0.01	0	0	0	0	0		3.6	0.313	Arsenic MRL elevated due to matrix interference. Holding time for DOC analysis was exceeded. Sample was subcontracted for
Lake Melville	SI	2012-6318-00-SI-SP	WS-S-0000	25-Jul-12	AT	16	29	5410	499	6.92	3520	31	8	0.32	5.69	35	1580	0.14	33	901	215	0	3.7	0	0	0.07	0.87	0	0	0.02	0	0.003	0.003	0.97	0	100	0.03	0	0	0	0	0		2.4	1.01	RTWQ / Sample was subcontracted for Arsenic and Selenium
Lake Melville	SI	2012-6332-00-SI-SP	WS-S-0000	22-Aug-12	AT	30	20	11000	1040	7.3	7700	22	4	0.7	11.5	69	3360	0.26	66	1860	474	0	2.3	0	0.2	0.03	0.15	0	0	0.01	0	0.001	0.002	0.17	0	210	0.01	0	0	0	0	0	18.7	1.9	1.5	RTWQ / Sample was subcontracted for Arsenic analysis.
Lake Melville	SI	2012-6341-00-SI-SP	WS-S-0000	25-Sep-12	AT	49	14	21000	2380	7.63	16800	72	22.8	1.5	96.9	170	6730	0.43	159	4260	928	0	1.7	0	0	0.06	0.33	0	0	0.01	0	0.002	0.004	0.37	0	476	0.02	0	0.005	0	0.001	0				Sample was subcontracted for Arsenic and Selenium analysis.
Lake Melville	SI	2013-6304-00-SI-SP	WS-S-0000	24-May-13	AT	14	44	2620	251	6.65	1700	13	4.1	0.16	6.65	18	704	0	15	408	98	0	4.7	0	0.12	0.03	0.31	0	0	0.01	0	0	0.002	0.44	0	50	0.02	0	0	0	0	0	6.3	4.7	0.288	RTWQ Grab Sample-small amber glass bottle broke. Volume transferred from white plastic bottle in the lab. Sampled May 24-transferred May 27.SC=2383us/cm TDS=1.5g/l pH=6.69 Turb=30.8 NTU LDO5=105.9 LDDmg=12.9mg/l / Holding time for turbidity
Lake Melville	SI	2013-6319-00-SI-SP	WS-S-0000	27-Jun-13	AT	14	37	4290	384	7	2790	4	1.6	0.28	6.25	25	1240	0.12	26	797	177	0	4.8	0	0	0	0.14	0	0	0	0	0	0	0.18	0	78	0	0	0	0	0	0	15	4.8	0.439	T:15.48,pH:8.23,SC:4358us/cm, DO:11.24mg/l, %sat: 114.2%, Turbidity: 0.5NTU / Holding time for turbidity analysis was exceeded. Arsenic MRL elevated due to matrix interference (dilution was
Lake Melville	SI	2013-6332-00-SI-SP	WS-S-0000	13-Aug-13	AT	28	24	10800	1040	7.6	7560	7	1.7	0.65	8.66	70	3220	0.25	68	1890	441	0	2.4	0	0.19	0.01	0.07	0	0	0	0	0.001	0.002	0.09	0	211	0	0	0	0	0	0	17.8	2.6	1.4	RTWQ / Sample was subcontracted for Arsenic analysis.
Lake Melville	SI	2013-6357-00-SI-SP	WS-S-0000	11-Oct-13	AT	41	33	16300	1550	7.11	12200	81	4.2	1.3	15.4	100	5150	0.35	110	3010	740	0	2.8	0	0.16	0.08	0.78	0	0	0.01	0	0.002	0.005	0.85	0	315	0.02	0	0.006	0	0	0	7.1	2.8	1.51	Holding time for trubidity analysis was exceeded. Sample was subcontracted for Arsenic analysis.
Lake Melville	SI	2013-6358-00-SI-SP	WS-S-0000	5-Nov-13	AT	42	31	17800	2050	7.39	14200	198	28.8	1.4	16.4	130	5810	0.42	138	3300	800	0	2.5	0	0.21	0.25	1.59	0	0	0.02	0	0.004	0.006	1.91	0	419	0.04	0	0.005	0	0.001	0	14.5	2.6	2.08	Holding time for turbidity analysis was exceeded. Sample was subcontracted for Arsenic analysis.
Lake Melville	SI	2014-6306-00-SI-SP	WS-S-0000	29-May-14	AT	16	23	3090	295	7.27	2010	6	8.1	0.2	3.03	21	851	0.11	19	522	118	0.08	3.4	0	0.24	0.04	0.32	0	0	0.01	0	0	0.001	0.28	0	59	0.01	0	0	0	0	0	1.8	3.6	0.367	Holding time for turbidity analysis was exceeded for the entire report.
Lake Melville	SI	2014-6314-00-SI-SP	WS-S-0000	26-Jun-14	AT	13	35	3440	323	7.18	2240	36	3.7	0.26	3.59	22	976	0.11	21	598	135	0.09	4.4	0	0.22	0.06	0.78	0	0	0.01	0	0	0.002	0.5	0	65	0.01	0	0	0	0	0	14.9	4.8	0.418	RTWQ, TURBIDITY = 25.3
Lake Melville	SI	2014-6324-00-SI-SP	WS-S-0000	22-Jul-14	AT	15	37	5790	620	7.36	3760	12	6.4	0.5	6.56	44	1680	0.17	35	1060	241	0.07	4	0	0.16	0.01	0.3	0	0	0	0	0	0	0	0	124	0	0	0	0	0	0	20.2	4	0.69	RTWQ, Turbidity=11.7
Lake Melville	SI	2014-6334-00-SI-SP	WS-S-0000	14-Aug-14	AT	25	25	9060	872	7.47	6340	31	2.7	0.6	10.9	59	2701	0.24	59	1640	392	0.07	2.8	0	0.14	0.04	0.4	0	0	0	0	0	0	0.5	0	176	0	0	0	0	0	0	18.7	3.2	1.03	RTWQ
Lake Melville	SI	2014-6350-00-SI-SP	WS-S-0000	1-Oct-14	AT	43	24	19200	2130	7.59	15400	44	17.3	1.7	22	125	6030	0.46	135	3750	972	0.04	2.1	0	0.52	0.2	4.79	0	0	0.02	0	0.001	0.005	1.29	0	441	0.03	0	0	0	0	0		2.9	2.3	RTWQ Sample, TURBIDITY = 126 NTU
Lake Melville	SI	2014-6351-00-SI-SP	WS-S-0000	23-Oct-14	AT	40	48	17200	1930	7.57	13800	123	12	1.6	16.3	115	5450	0.42	114	2660	770	0.13	2.8	0	0.6	0.05	1.49	0	0	0.01	0	0	0.003	0.44	0	399	0.01	0	0	0	0	0	5.2	2.51	2.9	RTWQ Sample / Sediment not included in Metals analysis.
Lake Melville	SI	2015-6302-00-SI-SP	WS-S-0000	27-May-15	AT	13	38	1930	191	7.24	1250	14	7.8	0.14	2.33	14	521	0	12	328	72	0.16	4.7	0	0	0.03	0.61	0	0	0.01	0	0	0.002	0.59	0	38	0.03	0	0	0	0	0	3.5	4.5	0.221	RTWQ Sample
Lake Melville	SI	2015-6310-00-SI-SP	WS-S-0000	25-Jun-15	AT	21	43	4290	427	7.71	2790	37	5.4	0.31	3.45	29	1250	0	29	551	178	0.14	5.3	0	0.2	0	0.69	0	0	0.01	0	0	0.002	0.54	0	86	0.02	0	0	0	0	0	11.9	10	0.533	RTWQ Sample
Lake Melville Buoy	SI	2015-6319-00-SI-SP	WS-S-0000	11-Aug-15	AT	11	35	2390	221	7.27	1550	6	2	0.2	0	16	679	0	15	384	97	0	4.3	0	0.33	0	0.18	0	0	0	0	0	0	0.14	0	44	0	0	0	0	0	0		4.3	0.278	Holding time for turbidity analysis was exceeded. Bromide MRL elevated due to matrix interference (dilution was done).
Lake Melville	SI	2016-6301-00-SI-SP	WS-S-0000	25-May-16	MX	14	43	1800	170	7.06	910	13	22	0.13	2	13	490	0	11	280	76	0	3.6	0.16	0.12	0.033	0.99	0	0	0.019	0	0.0014	0.0021	1.2	0	33	0.049	0	0	0	0.00015	0	1.37	3.6	0.21	RTWQ Sample
Lake Melville	SI	2016-6323-00-SI-SP	WS-S-0000	4-Aug-16	MX	26	28	6800	750	7.3	3800	3	2.1	0.54	8.1	49	2000	0.16	44	1300	290	0.085	0	0.052	0.18	0.009	0.12	0	0	0.009	0	0	0	0.11	0	150	0.0071	0	0	0	0.0004	0.02	18.2	<5	0.9	RTWQ Sample
Lake Melville	SI	2016-6333-00-SI-SP	WS-S-0000	20-Sep-16	MX	45	27	14000	1500	7.8	8300	5.6	2.1	1.2	16	100	4600	0.27	95	2600	670	0	0	0	0.22	0.014	0.18	0	0	0.011	0.00002	0	0	0.2	0	310	0.008	0.000013	0	0	0.0009	0		<5	1.9	TOC and DOC - Elevated reporting limit due to sample matrix.
Lake Melville Buoy	SI	2016-6313-00-SI-SP	WS-S-0000	7-Jul-16	MX	17	44	3300	350	7.1	1800		6.1	0.25	3.8	24	950	0	21	580	150	0	3.6	0	0.2	0.012	0.25	0	0	0.01	0	0.0014	0	0.3	0	70	0.011	0	0	0	0.0003	0		3.5	0.44	
Lake Melville Buoy	SI	2016-6334-00-SI-SP	WS-S-0000	23-Sep-16	MX	33	29	9700	1000	6.9	5600	1.4	2.2	0.78	12	69	3100	0.23	66	1700	470	0	0	0.053	0.14	0.01	0.097	0	0	0.009	0	0	0	0.15	0	210	0.0067	0	0	0	0.0005	0		<5	1.2	
Lake Melville	SI	2016-6339-00-SI-SP	WS-S-0000	15-Nov-16	MX	53	18	18000	2200	7.31	10000	53	14	1.8	23	140	5100	0.35	140	3700	830	0	0	0.073	0.27	0.16	0.9	0	0	0.019	0	0	0	1.4	0	460	0.049	0	0	0	0.0014	0		<5	2.7	
Lake Melville	SI	2017-6302-00-SI-SP	WS-S-0000	31-May-17	MX	17	29	3200	290	6.92	1600	15	7.1	0.22	2.8	20	910	0	18	490	130	0	2.8	0	0.15	0.025	0.36	0	0	0.011	0	0	0	0.41	0	58	0.017	0	0	0	0.00017	0.006		3	0.035	/ RTWQ
Lake Melville	SI	2017-6312-00-SI-SP	WS-S-0000	6-Jul-17	MX	24	37	5800	570	7	3100	120	37	0.42	13	39	1600	0.14	35	960	270	0.074	2.8	0	0.19	0.08	1.3	0	0	0.022	0.000022	0.0022	0.0027	1.6	0.0005	120	0.041	0	0	0	0.00041	0.009		4.2	0.69	/ RTQW / Elevated reporting limit due to sample matrix - Total Organic Carbon (C), Dissolved Sulphate (SO4).
Lake Melville	SI	2017-6323-00-SI-SP	WS-S-0000	11-Aug-17	MX	36	27	11000	1100	7.1	6200	150	76	0.82	23	76	3400	0.23	70	1900	450	0	0	0	0.1	0.14	2.6	0	0	0.04	0.000016	0.0045	0.0053	3.1	0.0009	220	0.07	0	0.004	0	0.00076	0.009	16.2	<5	1.4	/ RTQW / Elevated reporting limit due to sample matrix - Dissolved Organic Carbon (C), Total Organic Carbon (C)
Lake Melville	SI	2017-6332-00-SI-SP	WS-S-0000	27-Sep-17	MX	45	27	15000	1500	7.3	8700	32	7.1	1.2	17	100	4800	0.29	94	2600	690	0	0	0	0.15	0.03	0.49	0	0	0.013	0	0.0013	0	0.58	0	310	0.015	0	0	0	0.00083	0	9.3	<5	1.9	/ RTQW / Elevated reporting limit due to sample matrix - Dissolved Organic Carbon (C), Total Organic Carbon (C)