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Supplement of

Dissolved organic carbon (DOC) in Arctic ground ice

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Sample ID	Region	Location	Latitude	Longitude	Ice type	Stratigraphy (Holocene/ Pleistocene)	DOC [mg/L]	DIC [mg/L]	d18O [‰]	δD [‰]	D excess [‰]	pH	Electrical conductivity [μS/cm]	Cl [mg/L]	SO4 [mg/L]	NO3 [mg/L]	HCO3 [mg/L]	Ca [mg/L]	K [mg/L]	Mg [mg/L]	Na [mg/L]
BAR 06 1.23A	Northern Alaska	Barrow	71.30	-156.67	Ice wedge	Pleistocene	4.57	na	-22.30	-177.4	1.0	7.63	83.2	na	na	na	na	na	na	na	na
BAR 06 IW1 29A	Northern Alaska	Barrow	71.30	-156.67	Ice wedge	Pleistocene	3.59	na	-20.18	-161.7	-0.3	7.71	129.1	na	na	na	na	na	na	na	na
BAR 06 IW1 34A	Northern Alaska	Barrow	71.30	-156.67	Ice wedge	Pleistocene	7.65	na	-19.34	-154.1	0.6	7.40	129.0	na	na	na	na	na	na	na	na
BAR 06 IW1.4A	Northern Alaska	Barrow	71.30	-156.67	Ice wedge	Pleistocene	2.36	na	-25.63	-195.1	9.9	7.65	203.2	na	na	na	na	na	na	na	na
BAR 06 IW3 12A	Northern Alaska	Barrow	71.30	-156.67	Ice wedge	Pleistocene	5.51	na	-25.65	-197.7	7.5	7.72	117.7	na	na	na	na	na	na	na	na
BAR 06 IW4 2A	Northern Alaska	Barrow	71.30	-156.67	Ice wedge	Pleistocene	4.74	na	-22.96	-177.8	5.9	7.84	103.6	na	na	na	na	na	na	na	na
FAI IW14 - U/Th	Interior Alaska	Fairbanks	65.03	-147.71	Ice wedge	Pleistocene	24.34	19.79	-19.93	-168.3	-8.8	7.64	235.3	5.34	17.91	38.74	100.59	25.85	4.31	9.00	7.28
FAI IW3 - U/Th	Interior Alaska	Fairbanks	65.03	-147.71	Ice wedge	Pleistocene	28.61	6.16	-23.16	-185.8	-0.5	7.87	138.7	2.02	12.18	0.52	31.31	7.84	3.07	3.21	1.81
FAI IW4 - U/Th	Interior Alaska	Fairbanks	65.03	-147.71	Ice wedge	Pleistocene	14.06	11.03	-27.51	-216.4	3.7	7.48	81.9	7.80	8.02	0.64	56.06	12.06	4.68	3.83	5.84
FAI IW6 - U/Th	Interior Alaska	Fairbanks	65.03	-147.71	Ice wedge	Pleistocene	8.87	5.92	-24.79	-195.9	2.4	7.30	51.0	1.95	3.61	1.80	30.09	6.41	2.01	2.29	2.11
FAI IW7 - U/Th	Interior Alaska	Fairbanks	65.03	-147.71	Ice wedge	Pleistocene	8.08	5.35	-24.54	-194.6	1.7	6.73	45.2	1.44	4.26	0.52	27.21	5.63	1.51	2.33	2.55
GI-2-11	Yukon Coast	Herschel Island	69.64	-139.10	Buried lake ice	Pleistocene	0.30	0.33	-29.64	-235.0	2.2	6.70	9.7	1.15	BDL	BDL	1.68	0.18	BDL	BDL	0.53
GI-2-16a	Yukon Coast	Herschel Island	69.64	-139.10	Buried lake ice	Pleistocene	0.33	0.93	-31.48	-246.0	5.8	7.28	44.0	0.78	BDL	BDL	4.73	0.99	BDL	0.11	0.26
GI-2-20	Yukon Coast	Herschel Island	69.64	-139.10	Buried lake ice	Pleistocene	0.97	5.19	-34.18	-260.8	12.6	8.18	165.6	16.63	5.09	BDL	26.39	4.88	0.86	1.03	14.70
GI-2-23	Yukon Coast	Herschel Island	69.64	-139.10	Buried lake ice	Pleistocene	4.97	22.93	-36.27	-272.2	18.0	8.30	986.0	198.02	54.38	0.19	116.54	8.08	13.15	10.65	173.00
GI-2-29	Yukon Coast	Herschel Island	69.64	-139.10	Buried lake ice	Pleistocene	5.16	21.29	-38.96	-286.4	25.3	8.19	845.0	151.01	55.02	0.32	108.23	9.80	10.40	8.47	140.00
GI-2-43	Yukon Coast	Herschel Island	69.64	-139.10	Buried lake ice	Pleistocene	0.57	2.43	-31.79	-246.6	7.7	8.05	27.6	0.83	0.11	BDL	12.36	3.38	BDL	0.26	0.50
HIWCS12-MI-02	Yukon Coast	Herschel Island	69.62	-139.19	Basal glacier ice	Pleistocene	2.14	15.21	-31.21	-244.3	5.4	7.99	201.9	21.14	10.21	0.22	77.34	6.48	4.35	3.21	25.30
HIWCS12-MI-03	Yukon Coast	Herschel Island	69.62	-139.19	Basal glacier ice	Pleistocene	2.86	12.63	-30.74	-239.2	6.8	8.32	125.3	8.60	2.37	0.29	64.22	3.06	4.79	1.78	15.10
KOM12-H2O-2-1m	Yukon Coast	Komakuk Beach	69.58	-140.20	Surface water	Recent	5.58	4.98	-16.39	-130.9	0.2	6.98	62.3	5.28	0.23	BDL	25.32	6.76	0.46	1.41	3.17
KOM-SPI-1	Yukon Coast	Komakuk Beach	69.60	-140.60	Snow pack ice	Holocene	2.99	na	-15.54	-123.1	1.2	6.69	11.7	na	na	na	na	na	na	na	na
KP12-IW1-01	Yukon Coast	Kay Point	69.25	-139.19	Ice wedge	Holocene	3.14	6.18	-18.73	-141.2	8.6	7.81	90.9	3.24	10.51	0.17	31.42	12.40	0.64	1.72	2.34
KP12-IW1-02	Yukon Coast	Kay Point	69.25	-139.19	Ice wedge	Holocene	4.81	7.71	-19.55	-145.0	11.4	8.61	105.3	4.18	10.90	BDL	39.20	13.40	0.77	2.57	3.13
KP12-MI-01	Yukon Coast	Kay Point	69.25	-139.19	Basal glacier ice	Pleistocene	BDL	0.12	-29.25	-233.1	0.9	6.32	14.8	3.23	0.50	BDL	0.61	0.28	BDL	BDL	1.96
KP12-MI-02	Yukon Coast	Kay Point	69.25	-139.19	Basal glacier ice	Pleistocene	BDL	0.27	-28.99	-231.3	0.5	7.09	18.0	4.29	0.35	BDL	1.37	0.18	BDL	BDL	2.62
KP12-MI-03	Yukon Coast	Kay Point	69.25	-139.19	Basal glacier ice	Pleistocene	BDL	0.27	-28.24	-229.0	-3.1	6.75	5.4	0.62	BDL	0.16	1.37	0.16	BDL	BDL	0.21
KP12-MI-04	Yukon Coast	Kay Point	69.25	-139.19	Basal glacier ice	Pleistocene	BDL	0.69	-29.19	-234.0	-0.4	6.91	51.8	5.96	9.41	BDL	3.51	3.84	BDL	0.24	4.29
KP12-MI-05	Yukon Coast	Kay Point	69.25	-139.19	Basal glacier ice	Pleistocene	1.06	4.29	-31.35	-247.6	3.2	7.93	332.0	7.02	122.22	BDL	21.81	55.60	BDL	0.90	5.45
KP12-MI-06	Yukon Coast	Kay Point	69.25	-139.19	Basal glacier ice	Pleistocene	BDL	3.03	-30.08	-240.0	0.7	7.25	107.1	6.25	24.68	BDL	15.41	13.10	BDL	0.46	4.36
KP12-MI-07	Yukon Coast	Kay Point	69.25	-139.19	Basal glacier ice	Pleistocene	2.46	11.01	-30.85	-242.8	4.0	7.95	378.0	24.93	85.51	BDL	55.98	17.40	6.40	5.66	45.30
L6-C11	New Siberian Islands	Bol'shoy Lyakhovskiy Island	73.18	143.93	Ice wedge	Pleistocene	12.06	9.30	-32.18	-250.0	7.4	na	na	5.49	3.07	BDL	47.26	7.92	1.25	3.74	6.90
L6-C2	New Siberian Islands	Bol'shoy Lyakhovskiy Island	73.18	143.93	Ice wedge	Pleistocene	10.18	9.03	-34.55	-269.4	6.9	na	na	2.51	3.54	BDL	45.90	9.05	1.25	4.03	3.26
L6-C3	New Siberian Islands	Bol'shoy Lyakhovskiy Island	73.18	143.93	Ice wedge	Pleistocene	15.39	8.89	-32.90	-255.9	7.2	7.84	179.7	5.04	4.55	BDL	45.21	8.31	1.88	4.09	6.16
LD05-IW-7.1_R	Lena Delta	Samoylov Island	72.44	126.43	Ice wedge	Holocene	3.67	5.70	-24.49	-187.1	8.7	7.83	55.4	1.96	0.26	BDL	28.98	5.49	0.87	2.52	1.14
LD05-IW-7.18	Lena Delta	Samoylov Island	72.44	126.43	Ice wedge	Holocene	5.74	6.72	-24.44	-185.7	9.8	7.94	68.0	2.95	0.68	BDL	34.17	6.26	1.27	3.25	1.80
LH 2012	Yukon Coast	Herschel Island	69.60	-139.06	Surface water	Recent	5.45	40.24	-13.17	-107.8	-2.4	8.00	1,262.0	294.36	13.27	BDL	204.55	57.30	7.10	27.70	153.00
MAK-IW-28.1_C1	Western Laptev Sea	Cape Mamontov Klyk	73.60	117.17	Ice wedge	Pleistocene	4.02	10.44	-30.09	-239.5	1.2	7.82	186.8	15.82	10.53	10.89	53.08	5.89	1.85	2.79	26.40
MAK-IW-28.4_C4	Western Laptev Sea	Cape Mamontov Klyk	73.60	117.17	Ice wedge	Pleistocene	19.02	11.43	-30.81	-239.3	7.1	7.51	118.6	4.67	1.57	0.22	58.12	11.90	2.97	4.80	3.24
MAK-IW-28.5_C5	Western Laptev Sea	Cape Mamontov Klyk	73.60	117.17	Ice wedge	Pleistocene	17.97	10.44	-31.70	-244.9	8.7	7.57	109.9	4.08	1.90	0.20	53.08	12.00	2.48	4.66	3.06
MAK-IW-28.6_C6	Western Laptev Sea	Cape Mamontov Klyk	73.60	117.17	Ice wedge	Pleistocene	17.82	13.92	-30.98	-240.0	7.8	8.46	109.1	4.02	1.32	0.24	70.78	10.10	2.40	3.86	3.14
MUO11-IW-1 - Block1	Eastern Laptev Sea	Muostakh Island	71.43	129.99	Ice wedge	Holocene	2.92	0.45	-24.78	-189.0	9.2	6.44	36.5	7.14	0.13	BDL	2.29	0.36	0.31	0.39	4.08
MUO11-IW-1 - Block2	Eastern Laptev Sea	Muostakh Island	71.43	129.99	Ice wedge	Holocene	4.91	0.60	-24.35	-185.8	9.0	5.94	76.9	17.13	1.55	BDL	3.05	0.41	1.01	0.70	9.87
MUO11-IW-1 - Block3	Eastern Laptev Sea	Muostakh Island	71.43	129.99	Ice wedge	Holocene	3.23	0.38	-24.49	-186.5	9.4	6.27	51.5	14.90	1.21	BDL	1.91	0.35	0.93	0.55	8.97
MUO11-IW-1 - Block4	Eastern Laptev Sea	Muostakh Island	71.43	129.99	Ice wedge	Holocene	2.44	0.78	-24.65	-187.8	9.4	6.37	52.3	10.11	0.49	BDL	3.97	0.33	0.55	0.45	5.89
MUO11-IW-1 - Block5	Eastern Laptev Sea	Muostakh Island	71.43	129.99	Ice wedge	Holocene	1.61	0.39	-24.15	-185.5	7.7	6.35	29.8	8.46	0.55	BDL	1.98	0.33	0.55	0.38	5.07
MUO11-IW-1 - Block6	Eastern Laptev Sea	Muostakh Island	71.43	129.99	Ice wedge	Holocene	2.14	0.60	-23.81	-182.6	7.9	6.44	38.6	8.92	1.17	BDL	3.05	0.50	0.49	0.45	5.35
MUO11-IW-1 - Block7	Eastern Laptev Sea	Muostakh Island	71.43	129.99	Ice wedge	Holocene	3.57	0.98	-24.53	-188.4	7.8	6.10	93.6	27.82	1.80	BDL	4.97	0.80	1.51	1.72	14.28
MUO11-IW-1 - Block8	Eastern Laptev Sea	Muostakh Island	71.43	129.99	Ice wedge	Holocene	4.75	0.33	-24.14	-185.3	7.8	6.09	76.3	32.10	2.49	BDL	1.68	0.87	2.25	1.86	16.40
MUO11-IW-1 - Block9	Eastern Laptev Sea	Muostakh Island	71.43	129.99	Ice wedge	Holocene	3.55	1.55	-23.78	-182.7	7.5	6.30	37.9	14.79	0.95	BDL	7.86	0.75	1.05	1.10	9.73
Muo-C1	Eastern Laptev Sea	Muostakh Island	71.61	129.94	Ice wedge	Pleistocene	20.56	5.15	-31.83	-250.6	4.0	7.42	101.0	4.48	2.25	0.07	26.16	5.50	3.04	2.64	2.50
Muo-C2	Eastern Laptev Sea	Muostakh Island	71.61	129.94	Ice wedge	Pleistocene	17.29	5.51	-32.51	-255.4	4.7	7.69	104.1	5.68	3.86	0.13	28.01	5.78	3.79	2.54	3.58
Muo-C3	Eastern Laptev Sea	Muostakh Island	71.61	129.94	Ice wedge	Pleistocene	16.03	5.45	-31.48	-247.8	4.1	7.75	86.1	5.32	2.61	0.14	27.69	6.25	3.66	2.48	2.76
Muo-C4	Eastern Laptev Sea	Muostakh Island	71.61	129.94	Ice wedge	Pleistocene	15.17	10.01	-29.40	-233.4	1.8	7.96	216.8	8.79	6.81	BDL	50.87	9.48	3.45	4.65	6.83
Muo-C5	Eastern Laptev Sea	Muostakh Island	71.61	129.94	Ice wedge	Pleistocene	10.95	11.17	-25.90	-208.1	-0.9	7.95	111.2	5.30	2.82	0.03	56.77	10.26	2.71	4.55	4.12
Muo-C6	Eastern Laptev Sea	Muostakh Island	71.61	129.94	Ice wedge	Pleistocene	7.02	9.38	-25.99	-209.1	-1.2	8.09	116.6	5.09	1.00	BDL	47.68	7.73	1.84	4.36	3.49
Muo-C7	Eastern Laptev Sea	Muostakh Island	71.61	129.94	Ice wedge	Pleistocene	7.69	6.79	-31.27	-246.7	3.5	7.66	78.3	5.42	3.59	0.03	34.53	6.22	2.60	2.94	4.41
Muo-C8	Eastern Laptev Sea	Muostakh Island	71.61	129.94	Ice wedge	Pleistocene	11.41	5.88	-32.20	-253.2	4.4	7.49	74.1	4.79	2.46	BDL	29.87	5.31	3.53	2.79	3.50

Sample ID	Region	Location	Latitude	Longitude	Ice type	Stratigraphy [Holocene, Pleistocene]	DOC [mg/L]	DIC [mg/L]	d18O [‰]	δD [‰]	D excess [‰]	pH	Electrical conductivity [μS/cm]	Cl [mg/L]	SO4 [mg/L]	NO3 [mg/L]	HCO3 [mg/L]	Ca [mg/L]	K [mg/L]	Mg [mg/L]	Na [mg/L]
Oy7-11-IW7 11-12	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	6.13	0.42	-23.56	-183.1	5.4	5.61	39.5	7.96	0.31	BDL	2.14	0.34	0.85	0.46	4.25
Oy7-11-IW7 1-2	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	5.40	0.59	-25.69	-199.6	5.9	6.03	35.5	5.39	0.29	BDL	2.97	0.31	0.75	0.32	2.37
Oy7-11-IW7 13-14	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	6.15	0.48	-24.02	-184.9	7.3	5.83	48.0	8.42	0.32	BDL	2.44	0.37	1.12	0.51	4.33
Oy7-11-IW7 15-16	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	6.31	0.43	-24.88	-192.1	6.9	na	na	6.36	0.45	BDL	2.19	0.31	0.67	0.30	3.27
Oy7-11-IW7 17-18	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	7.75	0.53	-25.47	-196.9	6.9	5.53	36.5	5.52	0.39	0.22	2.67	0.36	0.87	0.41	2.62
Oy7-11-IW7 19-20	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	8.22	0.55	-25.10	-194.6	6.2	5.58	37.2	5.42	0.57	BDL	2.78	0.34	0.77	0.30	2.66
Oy7-11-IW7 21-22	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	8.12	0.99	-25.90	-199.7	7.5	6.29	48.9	5.67	1.25	0.22	5.03	0.30	2.09	0.25	2.27
Oy7-11-IW7 23-24	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	9.59	1.41	-25.87	-198.9	8.1	6.66	77.7	7.82	0.77	BDL	7.17	0.31	3.33	0.25	2.00
Oy7-11-IW7 3-4	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	5.87	0.36	-24.74	-191.9	6.0	5.56	35.3	7.05	0.31	BDL	1.83	0.32	0.50	0.37	3.60
Oy7-11-IW7 5-6	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	5.59	0.44	-25.54	-197.6	6.8	5.72	26.8	5.10	0.24	BDL	2.21	0.26	0.62	0.28	2.39
Oy7-11-IW7 7-8	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	6.63	0.36	-24.95	-192.3	7.3	5.75	47.8	10.20	0.37	BDL	1.83	0.38	0.61	0.55	5.25
Oy7-11-IW7 9-10	Dmitry Laptev Strait	Oyogos Yar coast	72.70	143.50	Ice wedge	Holocene	16.03	0.60	-24.34	-189.3	5.5	5.73	59.1	9.14	0.31	BDL	3.05	0.43	0.34	0.54	4.59
RB12-IW1	Yukon Coast	Roland Bay	69.43	-139.00	Ice wedge	Pleistocene	2.43	8.46	-27.58	-217.1	3.5	7.62	444.0	6.08	163.14	1.39	43.02	57.30	3.59	12.40	10.80
RB12-IW2	Yukon Coast	Roland Bay	69.43	-139.00	Ice wedge	Holocene	12.66	2.79	-23.87	-181.9	9.0	7.12	73.4	12.64	1.43	BDL	14.19	4.06	1.18	1.32	7.28
RB12-IW3	Yukon Coast	Roland Bay	69.43	-139.00	Ice wedge	Holocene	10.87	2.61	-23.23	-177.7	8.2	7.18	75.5	11.77	3.39	BDL	13.27	4.65	1.23	1.57	6.94
RB12-IW4	Yukon Coast	Roland Bay	69.43	-139.00	Ice wedge	Pleistocene	6.38	6.42	-26.02	-204.0	4.1	7.53	366.0	5.98	130.29	0.23	32.64	45.90	3.45	9.16	9.33
RB12-IW5	Yukon Coast	Roland Bay	69.43	-139.00	Ice wedge	Holocene	15.77	3.75	-23.19	-175.3	10.2	7.21	56.1	4.84	1.87	BDL	19.07	5.52	1.60	1.54	3.03
RB12-IW6	Yukon Coast	Roland Bay	69.43	-139.00	Ice wedge	Holocene	16.29	1.83	-22.10	-167.0	9.8	6.94	39.1	3.56	0.95	0.24	9.30	3.27	1.22	1.02	2.26
RB12-IW7	Yukon Coast	Roland Bay	69.43	-139.00	Ice wedge	Holocene	15.54	1.83	-21.45	-162.0	9.6	6.95	39.3	3.80	0.63	BDL	9.30	3.35	1.26	1.01	2.19
RB12-IW8	Yukon Coast	Roland Bay	69.43	-139.00	Ice wedge	Holocene	8.57	3.00	-21.55	-162.7	9.6	7.37	64.4	5.80	6.58	0.34	15.25	5.76	1.30	1.60	2.96
RB12-IW9	Yukon Coast	Roland Bay	69.43	-139.00	Ice wedge	Holocene	6.62	6.75	-23.99	-183.3	8.6	7.76	98.6	3.44	11.61	0.26	34.32	10.90	2.16	2.66	2.78
SP H2O 1-1m	Yukon Coast	Roland Bay	69.33	-139.03	Surface water	Recent	5.71	22.72	-15.67	-131.3	-5.9	7.57	384.8	56.45	9.35	BDL	115.51	33.03	2.41	8.61	30.85
TSA12-IW1-01	Yukon Coast	Herschel Island	69.58	-138.94	Ice wedge	Holocene	8.08	1.26	-21.20	-158.3	11.3	6.88	43.4	6.29	0.87	0.52	6.41	2.11	0.92	0.83	3.41
TSA12-IW1-02	Yukon Coast	Herschel Island	69.58	-138.94	Ice wedge	Holocene	8.28	1.98	-20.74	-154.9	11.0	7.25	62.3	10.45	1.05	0.22	10.07	3.45	1.05	1.43	5.11
TSA12-IW1-03	Yukon Coast	Herschel Island	69.58	-138.94	Ice wedge	Holocene	6.26	4.41	-20.91	-157.5	9.8	7.45	68.3	7.37	1.53	BDL	22.42	6.05	0.75	1.78	3.85
TSC12-IW1-01	Yukon Coast	Herschel Island	69.58	-138.95	Ice wedge	Holocene	13.24	2.85	-20.41	-152.5	10.8	7.20	92.7	16.10	3.39	0.23	14.49	5.99	0.92	1.92	8.33
TSC12-IW1-02	Yukon Coast	Herschel Island	69.58	-138.95	Ice wedge	Holocene	19.48	9.54	-20.50	-154.7	9.3	7.65	230.2	28.71	20.27	BDL	48.51	11.80	3.88	4.38	24.60
TSD09-6-1	Yukon Coast	Herschel Island	69.60	-139.23	Basal glacier ice	Pleistocene	0.74	2.61	-32.70	-253.2	8.4	8.00	68.2	6.90	3.02	0.17	13.27	4.19	0.37	1.14	4.39
TSD09-6-2	Yukon Coast	Herschel Island	69.60	-139.23	Basal glacier ice	Pleistocene	3.80	14.01	na	na	na	8.00	346.0	21.58	54.49	BDL	71.24	15.05	6.66	8.79	36.35
TSD09-IW-5-1	Yukon Coast	Herschel Island	69.60	-139.23	Ice wedge	Pleistocene	8.90	7.26	-28.36	-225.2	1.7	8.19	175.0	24.09	5.92	BDL	36.91	9.65	5.87	3.58	15.00
TSD12-IW1-71	Yukon Coast	Herschel Island	69.57	-139.02	Ice wedge	Pleistocene	5.85	6.72	-25.23	-194.6	7.2	7.85	173.1	10.09	33.97	BDL	34.17	20.10	1.60	2.87	5.89
TSD12-IW1-72	Yukon Coast	Herschel Island	69.57	-139.02	Ice wedge	Pleistocene	9.02	6.21	-25.77	-198.6	7.6	7.76	359.0	13.88	111.43	BDL	31.58	40.40	7.40	8.73	11.20
TSD12-IW1-73	Yukon Coast	Herschel Island	69.57	-139.02	Ice wedge	Pleistocene	7.89	4.95	-25.30	-193.3	9.1	7.68	161.8	8.06	36.96	BDL	25.17	14.70	3.96	4.29	5.13
TSD12-IW2-01	Yukon Coast	Herschel Island	69.57	-139.01	Ice wedge	Holocene	2.94	1.92	-24.17	-183.0	10.3	7.30	44.3	7.14	0.26	BDL	9.76	3.00	0.32	0.51	3.85
TSD12-IW2-02	Yukon Coast	Herschel Island	69.57	-139.01	Ice wedge	Holocene	4.25	2.07	-22.41	-169.6	9.7	7.25	47.2	7.09	0.31	0.15	10.53	3.77	0.39	0.60	3.71
TSD12-IW2-03	Yukon Coast	Herschel Island	69.57	-139.01	Ice wedge	Holocene	6.03	2.04	-23.97	-182.6	9.2	6.80	50.2	8.24	0.42	BDL	10.37	3.10	0.73	0.86	3.92
TSD12-MI-01	Yukon Coast	Herschel Island	69.57	-139.02	Basal glacier ice	Pleistocene	1.06	3.27	-31.47	-245.1	6.6	7.70	77.7	13.85	0.91	0.17	16.63	4.87	0.27	0.69	8.14
TSD12-MI-02	Yukon Coast	Herschel Island	69.57	-139.02	Basal glacier ice	Pleistocene	1.03	4.17	-31.67	-246.0	7.3	7.65	87.9	13.91	1.42	0.23	21.20	6.27	0.44	1.33	7.53
TSD12-MI-03	Yukon Coast	Herschel Island	69.57	-139.02	Basal glacier ice	Pleistocene	6.07	22.60	-31.62	-245.8	7.1	8.09	386.0	27.74	51.88	0.40	114.86	10.60	5.90	6.45	60.20
TSD12-MI-04	Yukon Coast	Herschel Island	69.57	-139.02	Basal glacier ice	Pleistocene	5.72	25.39	-32.98	-258.4	5.4	8.10	504.0	68.41	32.15	BDL	129.05	9.98	6.20	5.85	79.30
TSD12-MI-05	Yukon Coast	Herschel Island	69.57	-139.02	Basal glacier ice	Pleistocene	0.00	1.65	-33.40	-259.8	7.4	7.24	47.7	9.50	0.53	BDL	8.39	2.35	BDL	0.30	6.10
TSD12-MI-06	Yukon Coast	Herschel Island	69.57	-139.02	Basal glacier ice	Pleistocene	1.80	15.78	-33.47	-260.5	7.2	8.01	236.5	22.43	10.73	BDL	80.23	9.44	3.98	5.22	20.50
TSD12-MI-07	Yukon Coast	Herschel Island	69.57	-139.02	Basal glacier ice	Pleistocene	2.17	13.92	-33.24	-259.0	7.0	7.92	206.5	19.09	15.23	BDL	70.78	6.58	4.80	3.67	26.40
TSD12-MI-08	Yukon Coast	Herschel Island	69.57	-139.02	Basal glacier ice	Pleistocene	0.00	0.72	-32.00	-248.5	7.6	7.18	26.5	5.11	0.78	BDL	3.66	1.08	BDL	0.24	3.00
TSD12-MI-09	Yukon Coast	Herschel Island	69.57	-139.02	Basal glacier ice	Pleistocene	1.85	13.89	-34.44	-267.5	8.0	7.79	175.6	5.41	18.73	BDL	70.62	10.50	3.96	4.10	15.90
TSD12-MI-10	Yukon Coast	Herschel Island	69.57	-139.02	Basal glacier ice	Pleistocene	3.12	17.88	-34.14	-265.2	7.9	8.01	379.0	55.72	22.68	0.27	90.91	8.39	5.76	4.59	58.20
TSD-MI-6	Yukon Coast	Herschel Island	69.60	-139.23	Basal glacier ice	Pleistocene	0.77	na	-31.74	-249.7	4.2	7.10	28.0	na	na	na	na	na	na	na	na

na not available (no measurement)

BDL Below Detection Limit (For statistical analyses, this value was set to zero)