

**Appendix C**

**Grain Size analysis (table) from Marine Sediment Sampling Program (MSSP)**  
**Report for Ballantyne's Cove (AMEC, March 2015)**

**Table B.11 TIC, TOC and Grain Size Results for Marine Sediments - Ballantynes Cove DFO-SCH, Antigonish County, Nova Scotia**

Parameter	RDL	Units	Sample Identification and Date							
			BC-7	BC-9	BC-12	BC-22	BC-24	BC-37	BC-WA	BC-WB
			8 December, 2014							
Grain Size Results										
< PHI -4 (12.5 mm)	0.1	%	100	100	100	100	100	100	100	100
< PHI -3 (9.5 mm)	0.1		100	100	100	100	100	100	100	86
< PHI -2 (4.75 mm)	0.1		100	100	100	100	100	100	100	80.1
< PHI -1 (2 mm)	0.1		100	100	100	100	100	100	87.2	61.5
< PHI 0 (1 mm)	0.1		100	100	100	100	87.3	100	85.4	49.9
< PHI +1 (1/2 mm)	0.1		99.1	99.5	96.2	96.5	68.1	96.5	82.9	41.8
< PHI +2 (1/4 mm)	0.1		97.6	98.9	91.9	91	56.1	87.6	73.4	34.7
< PHI +3 (1/8 mm)	0.1		95.1	96.5	77.1	74.6	46.7	68.1	68.8	31
< PHI +4 (1/16 mm)	0.1		90.4	91.8	62.8	59.2	34.4	61.2	62.5	28.4
< PHI +5 (1/32 mm)	0.1		62.6	60.2	50.8	46.3	29.8	35.9	55.8	22
< PHI +6 (1/64 mm)	0.1		30.9	31.7	29.7	29.1	22.7	23.5	33.2	15.3
< PHI +7 (1/128 mm)	0.1		18.6	19.8	18.5	17.7	15.5	14.7	20.7	10
< PHI +8 (1/256 mm)	0.1		15.5	16.5	15.1	14.4	12.5	12.2	15.6	7.7
< PHI +9 (1/512 mm)	0.1		11.9	12.6	11.6	10.6	9	9.3	11.6	5.3
Gravel	1		<1	<1	<1	<1	<1	<1	13	39
Sand	1	10	8	37	41	66	39	25	33	
Silt	1	75	75	48	45	22	49	47	21	
Clay	1	16	17	15	14	13	12	16	8	
Other										
Total Organic Carbon (TOC)	0.15	g/kg	2.95	1.56	2.16	2.00	2.24	1.88	2.52	1.03
Total Inorganic Caron (TIC)	0.15	g/kg	<0.15	0.6	<0.15	<0.15	0.29	0.94	<0.15	<0.15
Total Carbon (TC)	Calculation	g/kg	3.03	2.16	2.24	2.08	2.53	2.82	2.60	1.11

NOTE(S):

All results below the laboratory detection limit were divided by 2 prior to further calculations.

Light values indicate results below detection limit.