

Appendix 7:  
Marine Scotland sediment  
sampling analysis of  
Aberdeen offshore disposal  
site (1995 – 2011)

# Marine Scotland CR110 disposal site heavy metal sampling results 1995 - 2011

No	Site Name	Year	Field ID	UKAS/LIMS No	Depth	Date	Latitude	Longitude	As mg/kg	Cd mg/kg	Cr mg/kg	Cu mg/kg	Hg mg/kg	Ni mg/kg	Pb mg/kg	Zn mg/kg	Mean Dia. mm	Median Dia mm	Sorting Coef.	Skewness	Kurtosis	PSA <20µm (%)	PSA <63µm (%)	Visual Description
9	Aberdeen	1995	9ABZ95	465/97		26-Sep-95	57°06.754'N	001°59.834'W	6.04	0.050	4.88	8.54	0.030	4.24	20.18	39.77	0.529	0.525	1.91	-0.04	1.25		6.40	
8	Aberdeen	1995	8ABZ95	464/97		26-Sep-95	57°06.871'N	001°59.858'W	5.36	0.040	4.30	9.22	0.030	4.29	19.55	36.45	0.297	0.330	1.74	0.10	1.66		11.00	
7	Aberdeen	1995	7ABZ95	463/97		26-Sep-95	57°07.116'N	001°59.994'W	6.09	0.040	3.03	4.98	0.100	2.74	12.20	22.21	0.299	0.312	0.76	-0.02	1.26		3.40	
6	Aberdeen	1995	6ABZ95	462/97		26-Sep-95	57°07.255'N	001°59.999'W	6.73	0.030	5.39	9.02	0.070	4.76	22.42	43.88	0.275	0.301	1.82	0.02	2.12		12.10	
5	Aberdeen	1995	5ABZ95	461/97		26-Sep-95	57°07.045'N	001°59.540'W	7.61	0.020	3.12	3.34	0.050	3.91	11.45	20.27	0.312	0.306	1.03	-0.17	1.41		3.90	
4	Aberdeen	1995	4ABZ95	460/97		26-Sep-95	57°07.019'N	001°59.740'W	5.65	0.070	4.14	5.88	0.020	3.45	14.03	27.14	0.363	0.339	1.02	-0.25	1.27		2.50	
3	Aberdeen	1995	3ABZ95	459/97		26-Sep-95	57°07.015'N	001°59.934'W	7.32	0.040	4.37	3.32	0.010	3.63	8.73	23.52	0.183	0.252	1.29	0.51	1.58		13.10	
2	Aberdeen	1995	2ABZ95	458/97		26-Sep-95	57°07.022'N	002°00.243'W	7.00	0.060	4.88	6.03	0.050	4.19	14.60	28.37	0.192	0.253	1.68	0.39	1.89		15.80	
1	Aberdeen	1995	1ABZ95	457/97		26-Sep-95	57°07.058'N	002°00.342'W	6.98	0.030	3.60	4.41	0.030	4.25	13.83	25.10	0.316	0.312	0.84	-0.15	1.31		2.80	
2	Aberdeen	2006	15ABZ2006	1839/06		7-Apr-06	57 11.610N	2 0.807W	4.95	BDL	13.47	2.74	BDL	6.69	6.32	19.10								Medium sand anaerobic at depth
3	Aberdeen	2006	14ABZ2006	1838/06		7-Apr-06	57 11.601N	2 1.611W	5.02	BDL	12.62	2.75	BDL	6.82	6.42	19.60								Fine-Medium Sand anaerobic at depth
4	Aberdeen	2006	13ABZ2006	1837/06		7-Apr-06	57 11.448N	2 2.754W	4.32	BDL	14.18	2.64	0.079	5.97	5.92	17.19								Medium Sand
5	Aberdeen	2006	12ABZ2006	1836/06		7-Apr-06	57 12.368N	2 0.486W	4.84	BDL	16.28	3.78	BDL	8.68	8.63	25.47								Fine-Medium sand anaerobic with depth
6	Aberdeen	2006	11ABZ2006	1835/06		7-Apr-06	57 12.280N	2 1.330W	4.83	BDL	19.98	3.81	BDL	8.89	8.39	24.87								Medium sand anaerobic at depth
7	Aberdeen	2006	10ABZ2006	1834/06		7-Apr-06	57 12.143N	2 2.357W	4.22	BDL	16.97	2.54	BDL	5.83	5.80	16.58								Medium Sand
8	Aberdeen	2006	9ABZ2006	1833/06		7-Apr-06	57 12.024N	2 0.627W	4.81	BDL	18.29	4.17	BDL	9.38	8.84	26.96								Fine_medium sand anaerobic at depth
9	Aberdeen	2006	8ABZ2006	1832/06		7-Apr-06	57 11.919N	2 1.521W	4.38	BDL	14.85	3.11	BDL	7.53	7.12	20.95								Medium Sand anaerobic at depth
10	Aberdeen	2006	7ABZ2006	1831/06		7-Apr-06	57 11.817N	2 2.529W	4.44	BDL	14.42	2.04	BDL	5.83	5.56	16.04								Medium Sand
11	Aberdeen	2006	6ABZ2006	1830/06		7-Apr-06	57 11.212N	2 0.952W	6.06	BDL	13.86	3.25	BDL	7.17	7.52	20.69								Medium sand anaerobic at depth
12	Aberdeen	2006	5ABZ2006	1829/06		7-Apr-06	57 11.137N	2 1.941W	5.02	BDL	16.85	3.68	BDL	8.04	8.10	22.69								Fine -Medium Sand Aaerobic below the surface
13	Aberdeen	2006	4ABZ2006	1828/06		7-Apr-06	57 11.043N	2 2.932W	4.16	BDL	13.80	2.22	BDL	6.68	6.14	23.28								Medium Sand
14	Aberdeen	2006	3ABZ2006	1827/06		7-Apr-06	57 12.650N	2 0.383W	5.04	BDL	20.72	4.58	BDL	10.08	10.22	29.39								Medium sand anaerobic at depth
15	Aberdeen	2006	2ABZ2006	1826/06		7-Apr-06	57 12.580N	2 1.225W	4.41	BDL	15.01	2.88	BDL	7.32	6.72	22.27								Medium sand anaerobic at depth
1	Aberdeen	2006	1ABZ2006	1825/06		7-Apr-06	57 12.510N	2 2.050W	4.27	BDL	14.09	2.01	BDL	5.85	5.46	20.65								Medium Sand
6	Aberdeen	2011	6/ABN/11	1737/2011		13-May-11	57.1146	-2.0010	5.51	0.029	6.65	9.42	0.059	3.41	4.18	19.58	0.278	0.258	0.65	0.06	1.06	1.793	4.143	
5	Aberdeen	2011	2/ABN/11	1734/2011		13-May-11	57.1197	-2.0014	3.94	0.023	5.32	2.22	0.059	3.25	3.46	13.59	0.414	0.351	0.78	-0.05	1.01	1.055	2.55	
4	Aberdeen	2011	4/ABN/11	1732/2011		13-May-11	57.1172	-2.0050	8.42	0.059	14.78	5.20	0.059	8.13	10.31	27.58	0.111	0.054	1.97	0.0	0.98	20.1	54.9	Sandy Mud
3	Aberdeen	2011	1/ABN/11	1731/2011		13-May-11	57.1170	-2.0010	3.78	0.043	8.55	4.13	0.059	5.25	4.91	24.26	0.200	0.177	2.1	0.53	1.23	15.666	25.944	
2	Aberdeen	2011	10/ABN/11	1728/2011		13-May-11											0.249	0.236	1.29	0.43	1.49	4.175	14.653	Muddy Sand
1	Aberdeen	2011	12/ABN/11	1727/2011		13-May-11																		
2	Aberdeen	2007	5ABZ2007	1504/07	56	5-Apr-07											0.320	0.276	1.27	0.27	1.54	4.26	10.10	8cm Grey brown Silty Sand
3	Aberdeen	2007	4ABZ2007	1503/07	48	5-Apr-07			4.25	BDL	7.27	2.74	BDL	5.49	5.40	16.70	0.432	0.373	0.78	-0.02	0.95	0.00	1.02	6cm Grey brown Sand and small stones
4	Aberdeen	2007	8ABZ2007	1502/07	44	5-Apr-07			4.84	BDL	10.60	4.01	BDL	6.54	6.45	22.50	0.343	0.298	0.69	-0.06	1.01	0.04	1.47	5cm Grey brown Sand
5	Aberdeen	2007	9ABZ2007	1501/07	43	5-Apr-07											0.387	0.347	0.72	0.00	1.00	1.26	3.12	9cm Choc brown Sand and shell fragments
6	Aberdeen	2007	7ABZ2007	1500/07	49	5-Apr-07											0.466	0.438	0.54	0.01	0.94	0.00	0.00	5cm Choc brown Sand
7	Aberdeen	2007	6ABZ2007	1499/07	46	5-Apr-07			4.46	BDL	8.74	5.98	BDL	5.76	6.48	20.90	0.383	0.320	0.79	-0.07	0.98	0.03	1.33	7cm Choc brown Sand (anoxic at depth)
8	Aberdeen	2007	1ABZ2007	1498/07	43	5-Apr-07			3.24	BDL	7.58	4.41	BDL	5.50	5.57	27.00	0.368	0.319	0.78	-0.01	0.99	1.14	2.85	5cm Grey brown Sand
9	Aberdeen	2007	2ABZ2007	1497/07	41	5-Apr-07			4.06	BDL	8.92	5.90	BDL	5.90	5.42	26.30	0.414	0.341	0.82	-0.08	0.97	0.03	1.23	4cm Grey brown Sand
1	Aberdeen	2007	3ABZ2007	1496/07	43	5-Apr-07											0.344	0.312	0.64	-0.02	0.97	0.00	1.44	6cm Grey brown Sand
32	Aberdeen	2002	32/ABZ/02	14148-02-SED					6.18	NA	9.43	4.62	0.052	5.38	13.60	34.20	0.297	0.323	0.04	0.94	0.71		3.90	
31	Aberdeen	2002	31/ABZ/02	14147-02-SED					5.99	NA	9.94	4.18	0.069	5.69	9.19	41.60	0.277	0.310	0.20	1.38	0.83		5.00	
30	Aberdeen	2002	30/ABZ/02	14146-02-SED					5.61	NA	15.60	11.30	0.057	9.19	12.70	42.70	0.178	0.214	0.27	0.99	1.27		13.30	
29	Aberdeen	2002	29/ABZ/02	14145-02-SED					5.81	NA	7.70	2.00	NA	4.34	5.57	16.00	0.311	0.328	0.01	0.93	0.67		2.70	
28	Aberdeen	2002	28/ABZ/02	14144-02-SED					8.92	NA	9.02	2.90	NA	4.09	9.42	19.80	0.285	0.308	0.04	1.06	0.63		3.50	
27	Aberdeen	2002	27/ABZ/02	14143-02-SED					5.86	NA	14.90	18.70	0.067	9.15	12.10	38.20	0.232	0.292	0.34	1.35	1.27		11.40	
26	Aberdeen	2002	26/ABZ/02	14142-02-SED					5.78	NA	18.60	10.10	0.088	10.90	17.20	47.20	0.118	0.173	0.41	0.93	1.72		28.10	
25	Aberdeen	2002	25/ABZ/02	14141-02-SED					3.61	NA	16.50	9.82	0.054	10.00	8.83	35.60	0.123	0.285	0.64	0.72	2.61		32.40	
24	Aberdeen	2002	24/ABZ/02	14140-02-SED					8.40	NA	26.00	11.10	0.153	16.20	21.10	49.90	0.079	0.071	-0.04	0.83	2.14		47.60	
23	Aberdeen	2002	23/ABZ/02	14139-02-SED					5.19	NA	16.40	9.24	0.077	9.51	11.80	41.80	0.181	0.504	0.88	1.11	2.41		23.40	
22	Aberdeen	2002	22/ABZ/02	14138-02-SED					7.17	0.205	16.60	2.70	0.078	10.30	25.90	410.00	0.141	0.206	0.42	0.97	1.68		24.10	
21	Aberdeen	2002	21/ABZ/02	14137-02-SED					3.91	NA	13.90	6.76	0.057	8.19	8.64	33.90	0.209	0.306	0.52	1.26	1.63		16.80	
20	Aberdeen	2002	20/ABZ/02	14136-02-SED					2.67	NA	9.37	4.32	NS	5.71	5.82	20.20	0.278	0.385	0.49	1.54	1.21		10.00	
19	Aberdeen	2002	19/ABZ/02	14135-02-SED					5.36	NA	11.00	3.41	0.060	6.06	6.38	22.40	0.251	0.290	0.23	1.53	0.92		6.30	
18	Aberdeen	2002	18/ABZ/02	14134-02-SED					3.45	NA	7.62	3.49	0.061	4.89	17.30	19.70	0.301	0.342	0.25	1.35	0.91		5.20	
17	Aberdeen	2002	17/ABZ/02	14133-02-SED					5.64	NA	12.30	34.90	0.064	6.98	8.20	26.60	0.192	0.264	0.48	1.84	1.33		13.10	
16	Aberdeen	2002	16/ABZ/02	14132-02-SED					6.14	0.192	19.80	10.20	0.325	11.70	16.50	52.00	0.105	0.142	0.30	0.88	1.86		33.60	
15	Aberdeen	2002	15/ABZ/02	14131-02-SED					3.15	NA	12.10	6.13	0.051	6.89	6.85	29.40	0.175	0.261	0.46	0.91	1.82		21.10	
14	Aberdeen	2002</																						