

**Appendix 6.1**  
**Results of Sediment Quality Analysis**





Vibrocure No.	Depth (m) From To	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Nickel (Ni)	Lead (Pb)	Zinc (Zn)	Mercury (Hg)	Arsenic (As)	Silver (Ag)	Total PCB	PAHs (Low Molecular Weight)	PAHs (High Molecular Weight)	Tributyltin (TBT)	Overall Classification
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/L	
V06-38A	0.00-0.90m	<0.20	9.0	<7.0	5.5	8.2	<20	0.17	2.5	<0.10	<3	<55	<170		Category L
V06-38A	0.90-1.90m	<0.20	42	15.0	39	12	88	0.19	2.9	<0.10	<3	<55	<170		Category L
V06-38A	1.90-2.10m	<0.20	34	13.0	31	16	71	0.07	2.9	<0.10	<3	<55	<170		Category L
V06-39	grab sample													<0.015	*
V06-39	0.00-1.70m	<0.20	10	15	5.9	30	70	0.30	2.5	0.36	11	110	360		Category L
V06-40A	grab sample													<0.015	*
V06-40A	0.00-0.90m	<0.20	<8.0	23	<4.0	20	100	0.26	2.2	0.66	6.4	770	240		Category M
V06-40A	0.90-1.90m	<0.20	<8.0	<7.0	4.4	9.2	<20	0.15	1.2	<0.10	<3	<55	<170		Category L
V06-40A	1.90-2.90m	<0.20	35	8.7	21	12	58	0.06	1.2	<0.10	<3	1400	<170		Category M
V06-41	grab sample													<0.015	*
V06-41	0.00-0.90m	<0.20	17	28	8.0	30	54	0.70	3.7	0.42	120	210	1300		Category M
V06-41	0.90-1.90m	<0.20	15	<7.0	7.0	12	21	0.22	3.1	0.18	<3	<55	<170		Category L
V06-42	grab sample													<0.015	*
V06-42	0.00-0.90m	0.14	11	47	5.4	44	41	0.29	2.9	0.33	3.3	530	3200		Category M
V06-42	0.90-1.90m	<0.20	10	<7.0	6.9	8.9	<20	0.44	7.4	<0.10	<3	<55	<170		Category L
V06-43	grab sample													<0.015	*
V06-43	0.00-0.90m	0.62	57	200	25	58	180	3.6	7.6	6.3	<3	<55	<170		Category H
V06-43	0.90-1.90m	0.26	27	78	14	30	61	1.1	3.6	0.97	<3	<55	<170		Category H
V06-43	1.90-2.90m	<0.20	24	8.8	19	14	50	0.11	2.5	<0.10	<3	<55	<170		Category L
V06-43	2.90-3.90m	<0.20	10	13	4.5	18	27	0.12	2.6	0.46	<3	<55	<170		Category L
V06-43	5.90-6.90m	<0.20	28	12	28	19	59	1.8	4.6	<0.10	<3	<55	<170		Category H
V06-44	grab sample													<0.015	*
V06-44	0.00-0.90m	0.61	46	150	19	53	150	5.5	6.6	5.4	<3	<55	<170		Category H
V06-44	0.90-1.90m	<0.20	8.6	7.9	5.4	26	24	0.60	3.1	0.14	<3	<55	<170		Category M
V06-44	1.90-2.90m	<0.20	23	23	24	26	42	0.23	1.6	<0.10	<3	<55	<170		Category M
V06-44	2.90-3.90m	<0.20	34	11	17	15	51	<0.05	<1.0	<0.10	<3	87	<170		Category L
V06-45	grab sample													<0.015	*
V06-45	0.00-0.90m	0.76	73	290	29	58	200	0.54	7.0	5.8	<3	<55	<170		Category H
V06-45	0.90-1.90m	0.24	23	38	14	39	78	0.36	3.7	0.64	9.3	130	1600		Category L
V06-46	grab sample													<0.015	*
V06-46	0.00-0.90m	<0.20	<8.0	8.8	<4.0	8.7	21	0.29	1.9	0.24	<3	<55	<170		Category L
V06-46	0.90-1.90m	<0.20	12	11	7.6	15	28	0.19	3.2	0.20	<3	<55	<170		Category L
V06-47	grab sample													<0.015	*
V06-47	0.00-0.90m	1.0	76	370	32	69	220	4.3	8.1	7.8	<3	<55	<170		Category H
V06-47	0.90-1.90m	1.2	100	560	30	87	220	1.1	6.7	5.2	3.6	240	250		Category H
V06-47	1.90-2.90m	0.63	81	190	27	98	200	1.4	7.0	3.0	33	200	650		Category H
V06-47	2.90-3.90m	0.52	60	114	20	70	170	1.1	6.2	2.4	17	210	710		Category H
V06-47	5.90-6.90m	<0.20	<8.0	<7.0	7.7	9.0	<20	0.21	2.0	<0.10	<3	190	<170		Category L
V06-47	8.10-9.10m	<0.20	<8.0	<7.0	<4.0	13	<20	0.16	<1.0	<0.10	<3	<55	<170		Category L
V06-48	grab sample													<0.015	*
V06-48	0.00-0.90m	0.26	28	60	11	36	77	1.5	4.3	0.94	<3	<55	<170		Category H
V06-48	0.90-1.90m	<0.20	13	<7.0	10	11	25	0.10	1.9	0.13	<3	<55	<170		Category L
V06-48	1.90-2.90m	<0.20	20	11	14	15	34	1.1	2.1	<0.10	<3	<55	<170		Category H
Reference Sediment	grab sample	<0.20	20	12	15	32	63	0.19	5.5	0.11	<3	<55	<170	<0.015	Category L

Notes:

1. Low molecular weight PAHs, that is, acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene and phenanthrene.
2. High molecular weight PAHs, that is, benzo[a]anthracene, benzo[a]pyrene, chrysene, dibenzo[a,h]anthracene, fluoranthene, pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, indeno[1,2,3-c,d]pyrene and benzo[g,h,i]perylene.
3. Values in underline indicate Category M sediment under ETWB TCW No. 34/2002.
4. Values in bold indicate Category H sediment under ETWB TCW No. 34/2002.
5. Values in bold and underline indicate Category H sediment under ETWB TCW No. 34/2002 and that the contaminant level exceeds the LCEL by 10 times.
6. \* = only TBT was analysed in the grab samples in view of the difficulty to extract sufficient interstitial water for TBT analysis in the vibrocure samples.