



Immingham Green Energy Terminal

TR030008

Volume 7

7.9 Sediment Contamination Data Part 1

Planning Act 2008

Regulation 5(2)(q)

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009 Sept

Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Immingham Green Energy Terminal

Development Consent Order 2023

7.9 Sediment Contamination Data (Part 1)

Regulation Reference	APFP Regulation 5(2)(q)
Planning Inspectorate Case Reference	TR030008
Application Document Reference	TR030008/APP/7.9
Author	Associated British Ports Air Products BR

Version	Date	Status of Version
Revision 1	21 September 2023	DCO Application

Applicant Information

Instructions:

- All applicants and laboratories should refer to the most recent guidance on sediment analysis in support of marine licence applications
[Sediment analysis guidance](#)
- Full information must be provided under each relevant sheet of the workbook. Grey highlighted cells indicate where information can be entered.
- Where information cannot be provided, the applicant should consult with the MMO prior to submission.
- Worksheets are protected to prevent accidental amendments to calculated values. If amendments are required please consult with the MMO.
- Sample IDs used through the data output worksheets should correspond to Sample IDs provided on this worksheet.
- Where more than 6 dredge areas or 30 samples are required, please contact MMO.
- Macros must be enabled to use this workbook

Marine licence applicant information:

Applicant:	ABP Immingham
Application number:	SAM/2022/00106
Application title:	Immingham Green Energy Terminal
Date sampled:	01/03/2023
Sampling location:	Port of Immingham

Dredge area tonnages:

Dredge Area	Dredging tonnages	% total dredged material	Total dredged material
Area i	5,500	100.00%	5,500
Area ii			
Area iii			
Area iv			
Area v			
Area vi			

MMO use only

Sample numbers and locations

Sample ID	Excluded sample (MMO use)	Sample location (decimal degrees, WGS84)		Location name (as per sampling plan)	Sampling depth (m)	Dredge area
		Position latitude	Position longitude			
Sample 1 0.00m		53.627652	-0.156132	Site A	0	Area i
Sample 1 1.00m		53.627652	-0.156132	Site A	1	Area i
Sample 1 2.20m		53.627652	-0.156132	Site A	2.2	Area i
Sample 2 0.00m		53.627417	-0.154872	Site B	0	Area i
Sample 2 1.00m		53.627417	-0.154872	Site B	1	Area i
Sample 2 2.00m		53.627417	-0.154872	Site B	2	Area i
Sample 2 2.95m		53.627417	-0.154872	Site B	2.95	Area i
Sample 3 0.00m		53.627070	-0.153360	Site C	0	Area i
Sample 3 1.00m		53.627070	-0.153360	Site C	1	Area i
Sample 3 2.00m		53.627070	-0.153360	Site C	2	Area i
Sample 3 2.50m		53.627070	-0.153360	Site C	2.5	Area i
Sample 4 0.00m		53.626837	-0.151676	Site D	0	Area i
Sample 4 1.00m		53.626837	-0.151676	Site D	1	Area i
Sample 4 2.00m		53.626837	-0.151676	Site D	2	Area i
Sample 4 3.00m		53.626837	-0.151676	Site D	3	Area i
Sample 4 4.00m		53.626837	-0.151676	Site D	4	Area i
Sample 5 0.00m		53.628206	-0.155322	Site E	0	Area i
Sample 5 1.00m		53.628206	-0.155322	Site E	1	Area i
Sample 5 2.00m		53.628206	-0.155322	Site E	2	Area i
Sample 5 3.00m		53.628206	-0.155322	Site E	3	Area i
Sample 5 4.00m		53.628206	-0.155322	Site E	4	Area i
Sample 6 0.00m		53.627685	-0.153651	Site F	0	Area i
Sample 6 1.00m		53.627685	-0.153651	Site F	1	Area i
Sample 6 2.00m		53.627685	-0.153651	Site F	2	Area i
Sample 6 3.00m		53.627685	-0.153651	Site F	3	Area i
Sample 6 4.00m		53.627685	-0.153651	Site F	4	Area i
Sample 7 0.00m		53.627330	-0.151020	Site G	0	Area i
Sample 7 1.00m		53.627330	-0.151020	Site G	1	Area i
Sample 7 1.40m		53.627330	-0.151020	Site G	1.4	Area i
Sample 8 0.00m		53.627113	-0.149789	Site H	0	Area i

Physical characteristics data

Instructions:

1. Record the laboratory/contractor responsible for analysis
2. Record the date the samples were analysed.
3. Enter full dataset for each sample in the analysis results table
4. Where copying and pasting entries please use paste values only
5. Where entering multiple Sample IDs please use the pop-up form
IDs should be separated by a comma

Analysis information:

Laboratory/contractor: Ocean Ecology Ltd
Date of analysis: 05/05/2023

Physical characteristics analysis outputs:

Laboratory sample number	Dredge Area	Sample ID(s)	Visual appearance*	Exempt from chemical analysis ²	Total Solids (% total sediments)	Organic matter (total organic carbon)	-5.5	-5.0	-4.5	-4.0
							45mm	31.5mm	22.4mm	16mm
MAR01806.001	Area i	Sample 1 0.00m	Odourless Brown Mud with Organic Matter.		53.80	6.0700	0.00	0.00	0.00	0.00
MAR01806.002	Area i	Sample 1 1.00m	Odourless Brown Gravelly Sandy Mud with Organic Matter.		82.30	0.8500	0.00	0.00	0.00	0.00
MAR01806.003	Area i	Sample 1 2.20m	Odourless Brown Gravelly Mud.		86.50	1.0200	0.00	0.00	0.00	1.74
MAR01806.004	Area i	Sample 2 0.00m	Odourless Brown Gravelly Sandy Mud with Shell Fragments.		72.40	0.7900	0.00	39.19	0.00	0.79
MAR01806.005	Area i	Sample 2 1.00m	Odourless Brown Gravelly Mud.		87.30	0.9800	0.00	0.00	0.00	0.00
MAR01806.006	Area i	Sample 2 2.00m	Odourless Brown Gravelly Muddy Sand.		81.90	0.1700	0.00	0.00	0.00	0.00
MAR01806.007	Area i	Sample 2 2.95m	Odourless Brown Sandy Mud.		82.50	0.5900	0.00	0.00	0.00	0.00
MAR01806.008	Area i	Sample 3 0.00m	Brown Mud with Organic Matter and a Peat Odour.		52.60	6.3600	0.00	0.00	0.00	0.00
MAR01806.009	Area i	Sample 3 1.00m	Odourless Brown Muddy Sand.		83.90	0.5600	0.00	0.00	0.00	0.00
MAR01806.010	Area i	Sample 3 2.00m	Odourless Brown Gravelly Mud.		87.70	1.0500	0.00	0.00	0.00	0.00
MAR01806.011	Area i	Sample 3 2.50m	Odourless Brown Gravelly Mud.		89.00	0.9700	0.00	0.00	4.91	1.44
MAR01806.012	Area i	Sample 4 0.00m	Odourless Brown Sandy Mud.		60.40	1.4400	0.00	0.00	0.00	0.00
MAR01806.013	Area i	Sample 4 1.00m	Odourless Brown Mud.		64.40	1.6000	0.00	0.00	0.00	0.00
MAR01806.014	Area i	Sample 4 2.00m	Odourless Brown Mud.		68.40	2.0100	0.00	0.00	0.00	0.00
MAR01806.015	Area i	Sample 4 3.00m	Odourless Brown Sandy Mud.		82.50	2.2200	0.00	0.00	0.00	0.00
MAR01806.016	Area i	Sample 4 4.00m	Odourless Brown Mud.		79.70	0.9300	0.00	0.00	0.00	0.00
MAR01806.017	Area i	Sample 5 0.00m	Odourless Brown Mud.		54.30	1.3900	0.00	0.00	0.00	0.00
MAR01806.018	Area i	Sample 5 1.00m	Odourless Brown Sandy Mud.		67.00	0.8600	0.00	0.00	0.00	0.00
MAR01806.019	Area i	Sample 5 2.00m	Odourless Brown Mud.		64.00	1.5500	0.00	0.00	0.00	0.00
MAR01806.020	Area i	Sample 5 3.00m	Odourless Brown Sandy Mud.		81.50	1.1300	0.00	0.00	0.00	0.00
MAR01806.021	Area i	Sample 5 4.00m	Odourless Brown Gravelly Sandy Mud.		79.50	0.7100	0.00	0.00	0.00	0.00
MAR01806.022	Area i	Sample 6 0.00m	Odourless Brown Mud.		55.20	1.6800	0.00	0.00	0.00	0.00
MAR01806.023	Area i	Sample 6 1.00m	Brown Mud with a Peat Odour.		59.30	1.5000	0.00	0.00	0.00	0.00
MAR01806.024	Area i	Sample 6 2.00m	Brown Sandy Mud with a Peat Odour.		71.40	0.7900	0.00	0.00	0.00	0.00
MAR01806.025	Area i	Sample 6 3.00m	Odourless Brown Gravelly Mud.		87.00	0.7900	0.00	0.00	0.00	0.00
MAR01806.026	Area i	Sample 6 4.00m	Odourless Brown Sandy Mud.		80.90	0.9400	0.00	0.00	0.00	0.00
MAR01806.027	Area i	Sample 7 0.00m	Odourless Brown Muddy Gravel.		93.20	0.4100	0.00	21.10	11.45	8.33
MAR01806.028	Area i	Sample 7 1.00m	Odourless Brown Sandy Mud.		85.20	0.5900	0.00	0.00	0.00	0.00
MAR01806.029	Area i	Sample 7 1.40m	Odourless Brown-White Gravelly Mud.		85.50	0.3300	0.00	0.00	0.00	0.00
MAR01806.030	Area i	Sample 8 0.00m	Odourless White Muddy Gravel.		84.50	1.1100	0.00	0.00	7.65	11.08

* **Visual appearance:** Include a description of what the material looks like and what it contains, e.g. sandy material containing brick fragments, or black silt, or foreign man made matter caught in the sample.

² **Exempt from chemical analysis:** enter 'Y' where sediment samples contain glacial material or are too coarse and thus exempt from chemical analysis.

Particle size distribution (% at 0.5 phi intervals)

-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
11.2mm	8mm	5.6mm	4mm	2.8mm	2mm	1.4mm	1mm	707µm	500µm	353.6µm	250µm	176.8µm	125µm	88.39µm	63µm	44.2µm	31.3µm	22.1µm
0.00	0.00	0.00	0.24	0.15	0.21	0.26	0.36	0.45	2.32	2.22	0.85	3.05	4.86	1.66	5.69	6.98	8.55	9.20
1.16	0.00	0.20	0.35	0.21	0.30	0.49	0.88	0.00	0.00	0.17	5.37	14.36	18.49	12.24	5.86	4.35	4.30	3.65
0.64	1.50	1.84	0.87	1.68	1.13	1.07	1.19	0.00	0.00	0.00	0.29	3.33	4.12	3.07	2.91	3.32	5.94	5.46
3.95	1.92	2.14	0.78	0.67	0.52	0.42	0.38	0.00	0.00	0.00	0.23	1.89	2.99	2.36	1.99	2.98	3.53	3.20
1.31	1.28	2.03	1.14	1.20	1.10	0.85	0.91	0.00	0.00	0.00	0.15	1.64	5.72	5.12	1.84	3.74	5.97	5.29
0.00	0.00	0.35	0.85	1.37	1.53	1.78	1.92	2.08	0.64	0.24	4.24	15.79	20.49	12.88	3.46	0.33	2.18	1.84
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	5.71	15.26	21.36	15.98	10.34	6.44
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	6.33	5.25	3.51	4.64	7.46	6.93	3.24	5.33	5.37	6.18	6.52
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	4.19	17.67	25.36	12.25	6.89	4.86	4.19	3.26
3.74	2.58	0.49	2.18	1.47	1.04	1.00	1.06	0.00	0.00	0.00	0.00	0.00	1.21	6.40	2.03	2.39	6.63	6.06
0.54	0.55	1.83	1.40	1.26	1.06	0.79	0.81	0.00	0.00	0.00	0.00	0.14	4.62	5.16	1.31	3.26	5.99	5.66
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.24	1.57	10.06	8.18	6.87	7.69	7.70	6.81
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.52	2.09	7.54	5.95	5.33	6.20	6.70	6.03
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.45	1.32	6.98	6.77	7.78	8.97	8.60	7.28
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.01	13.21	24.80	21.59	11.49	6.71	3.89
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.77	7.71	9.70
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.40	3.18	10.16	6.51	6.94	8.02	7.72	6.69
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.63	7.60	14.49	8.11	7.80	6.87	6.45	5.36
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.66	2.54	11.20	9.94	8.14	7.18	6.78	5.92
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.34	0.80	4.09	8.20	9.27	9.27
0.00	3.40	2.57	1.85	1.75	0.95	0.55	0.31	0.00	0.00	0.00	0.00	0.47	2.65	0.45	1.48	6.06	8.45	8.86
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.34	1.59	6.87	5.14	5.20	6.98	7.72	6.87
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	2.79	6.43	3.85	4.38	6.36	7.74	7.23
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84	6.93	7.48	12.27	8.71	5.21	5.01	5.54	5.05
1.71	0.70	0.96	0.65	0.85	0.80	0.71	0.68	0.00	0.00	0.00	0.00	0.04	1.11	2.50	2.21	2.69	7.67	6.93
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.10	8.42	9.61
11.22	8.68	7.52	6.99	4.77	2.95	1.82	1.04	0.19	0.36	0.63	1.28	1.00	1.12	0.66	0.39	0.57	0.73	0.68
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	1.31	0.18	2.94	7.87	8.12
1.79	2.96	5.59	5.61	4.24	3.67	2.52	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.22	2.41	1.85	5.86	5.02
9.96	6.98	4.85	3.71	3.21	2.53	2.03	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1.50	1.24

6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	>14.5
15.6µm	11µm	7.8µm	5.5µm	3.9µm	2.75µm	1.95µm	1.38µm	0.98µm	0.69µm	0.49µm	0.34µm	0.24µm	0.17µm	0.12µm	0.09µm	0.06µm	0.04µm	<0.04µm
8.88	8.24	7.70	7.09	5.63	3.84	2.40	1.68	1.39	1.27	1.19	1.09	0.93	0.70	0.50	0.30	0.12	0.01	0.00
2.69	3.06	3.12	2.99	2.62	2.10	1.66	1.43	1.29	1.20	1.16	1.14	1.05	0.86	0.66	0.42	0.17	0.02	0.00
5.17	4.76	5.21	6.58	6.70	4.86	3.81	4.24	4.29	3.59	2.87	2.37	1.95	1.48	1.09	0.67	0.26	0.03	0.00
2.88	2.61	3.14	3.77	3.63	2.72	2.00	1.83	1.71	1.45	1.19	0.98	0.79	0.58	0.42	0.25	0.10	0.01	0.00
5.16	4.51	5.58	6.86	6.59	4.79	3.87	4.33	4.49	3.88	3.10	2.44	1.90	1.38	0.99	0.60	0.23	0.03	0.00
0.85	1.71	2.68	3.39	3.46	2.87	2.33	2.20	2.11	1.82	1.45	1.10	0.80	0.55	0.38	0.22	0.09	0.01	0.00
3.48	2.72	2.57	2.36	1.96	1.58	1.35	1.30	1.30	1.23	1.11	0.97	0.81	0.63	0.48	0.31	0.13	0.02	0.00
6.63	6.43	5.99	5.35	4.13	2.77	1.69	1.15	0.94	0.85	0.79	0.71	0.60	0.45	0.32	0.20	0.08	0.01	0.00
2.00	2.13	2.48	2.56	2.28	1.82	1.41	1.18	1.05	0.91	0.78	0.64	0.52	0.39	0.28	0.18	0.07	0.01	0.00
4.39	4.68	6.18	7.10	6.71	5.06	4.10	4.32	4.35	3.78	3.11	2.53	2.01	1.47	1.05	0.63	0.25	0.03	0.00
4.12	4.43	5.80	6.71	6.36	4.86	3.96	4.14	4.17	3.67	3.05	2.51	2.01	1.48	1.06	0.64	0.25	0.03	0.00
4.88	4.36	5.59	6.63	6.31	4.79	3.38	2.81	2.53	2.21	1.92	1.66	1.38	1.02	0.73	0.44	0.17	0.02	0.00
5.65	5.07	6.05	7.95	8.03	6.01	4.00	3.17	2.75	2.32	1.98	1.71	1.42	1.04	0.74	0.44	0.17	0.02	0.00
5.32	4.93	6.22	7.18	6.58	4.85	3.32	2.67	2.33	1.99	1.70	1.45	1.20	0.90	0.65	0.40	0.16	0.02	0.00
2.05	1.76	1.71	1.58	1.35	1.13	0.99	0.94	0.90	0.84	0.75	0.65	0.55	0.43	0.33	0.21	0.09	0.01	0.00
11.01	10.26	9.56	9.67	8.24	5.63	3.88	3.71	3.90	3.67	3.17	2.59	2.03	1.48	1.07	0.66	0.26	0.03	0.00
5.09	5.08	6.60	7.61	6.87	4.91	3.13	2.30	1.93	1.65	1.39	1.16	0.95	0.71	0.52	0.32	0.13	0.02	0.00
4.57	4.00	4.64	5.49	5.16	3.76	2.53	2.10	1.92	1.70	1.46	1.25	1.03	0.77	0.57	0.35	0.14	0.02	0.00
5.14	4.65	5.54	6.40	5.95	4.41	3.03	2.45	2.17	1.86	1.57	1.32	1.07	0.79	0.57	0.35	0.14	0.02	0.00
8.16	8.87	9.21	8.36	6.52	4.59	3.40	3.09	2.99	2.74	2.41	2.03	1.65	1.23	0.89	0.55	0.22	0.03	0.00
7.93	7.28	7.55	7.46	6.18	4.35	3.15	2.93	2.92	2.66	2.25	1.81	1.39	1.00	0.71	0.43	0.17	0.02	0.00
5.84	5.80	7.48	8.90	8.21	5.91	3.68	2.61	2.22	1.98	1.76	1.52	1.24	0.91	0.66	0.40	0.16	0.02	0.00
6.40	6.22	7.66	9.06	8.38	6.01	3.80	2.79	2.36	2.02	1.72	1.45	1.16	0.84	0.59	0.35	0.14	0.02	0.00
3.89	3.72	4.98	6.00	5.64	4.19	2.82	2.20	1.88	1.58	1.33	1.12	0.93	0.70	0.51	0.32	0.13	0.02	0.00
4.82	5.37	6.89	7.91	7.60	5.67	4.73	5.33	5.49	4.65	3.58	2.67	1.97	1.36	0.95	0.57	0.22	0.03	0.00
9.12	8.56	9.08	9.45	8.27	6.06	4.56	4.29	4.19	3.79	3.30	2.81	2.30	1.72	1.25	0.77	0.30	0.03	0.00
0.56	0.59	0.81	0.96	0.89	0.66	0.45	0.36	0.31	0.26	0.21	0.16	0.11	0.08	0.05	0.03	0.01	0.00	0.00
7.16	6.59	7.92	9.03	8.36	6.25	4.86	4.75	4.59	4.11	3.72	3.43	2.99	2.29	1.66	1.00	0.38	0.04	0.00
2.89	4.31	5.55	6.68	6.80	5.27	4.41	4.82	4.78	3.82	2.68	1.75	1.10	0.65	0.40	0.22	0.08	0.01	0.00
2.02	1.96	2.64	5.80	7.20	5.36	3.93	4.09	4.00	3.04	1.90	1.01	0.44	0.13	0.03	0.00	0.00	0.00	0.00

Trace metal data

Instructions:

1. Record the laboratory/contractor responsible for trace metal analysis
2. Record the date the samples were analysed.
3. Enter full dataset for each sample in the analysis results table
4. Trace metal analysis results should be reported in mg/kg (ppm) dry weight
5. Enter methodological limit of detection for each trace metal prior to inputting raw data
6. Where analysis outputs are less than the limits of detection please enter text "<LOD"
7. Where copying and pasting entries please use paste values only
8. Where entering multiple Sample IDs please use the pop-up form
IDs should be separated by a comma

Analysis information:

Laboratory/contractor: SOCOTEC
Date of analysis: 21/04/2023

Determinand analysis outputs:

Laboratory sample number	Dredge Area	Sample ID(s)	Total solids (%)	Metals as mg/kg dry weight							
				Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Mercury (Hg)	Nickel (Ni)	Lead (Pb)	Zinc (Zn)
MAR01806.001	Area i	Sample 1 0.00m	53.8	12.3	0.59	36.8	23.4	0.06	43.9	20.4	143
MAR01806.002	Area i	Sample 1 1.00m	82.3	9.4	0.05	7.8	5.9	0.04	6.4	5.4	38.4
MAR01806.003	Area i	Sample 1 2.20m	86.5	9.6	0.12	21.8	16.9	0.03	26.9	11.2	48.1
MAR01806.004	Area i	Sample 2 0.00m	72.4	11.2	<LOD	22.8	15.8	0.05	23.3	14.3	96
MAR01806.005	Area i	Sample 2 1.00m	87.3	11.5	0.11	21.3	14.1	0.02	25.2	9.8	53.6
MAR01806.006	Area i	Sample 2 2.00m	81.9	3.5	<LOD	6.6	7.6	0.01	8.1	3.6	18
MAR01806.007	Area i	Sample 2 2.95m	82.5	3.9	<LOD	9.4	9.6	0.03	11.2	5.1	24.2
MAR01806.008	Area i	Sample 3 0.00m	52.6	10.2	0.47	34.5	20.3	0.04	38.6	18	130
MAR01806.009	Area i	Sample 3 1.00m	83.9	6.1	<LOD	9.2	11.5	0.02	17.5	6.9	24.1
MAR01806.010	Area i	Sample 3 2.00m	87.7	10.4	0.11	20.4	18	0.03	29.4	12.2	56.7
MAR01806.011	Area i	Sample 3 2.50m	89	7.3	0.28	19.6	15.4	0.02	24.4	10.4	41
MAR01806.012	Area i	Sample 4 0.00m	60.4	14.8	0.48	32.2	21.7	0.12	23.1	42	103
MAR01806.013	Area i	Sample 4 1.00m	64.4	26.2	0.57	49.8	30.2	0.18	26.6	60.6	151
MAR01806.014	Area i	Sample 4 2.00m	68.4	31.4	0.6	59.2	37.9	0.25	31.4	75.3	189
MAR01806.015	Area i	Sample 4 3.00m	82.5	26.8	0.37	50.5	32.6	0.2	26.6	63.1	160
MAR01806.016	Area i	Sample 4 4.00m	79.7	5.1	0.25	22	16.4	0.02	25.1	10.5	47.5
MAR01806.017	Area i	Sample 5 0.00m	54.3	15.4	0.18	32.4	21.6	0.12	22.6	41	104
MAR01806.018	Area i	Sample 5 1.00m	67	12.4	0.2	21.3	14.2	0.07	15.2	28.4	73
MAR01806.019	Area i	Sample 5 2.00m	64	25.8	0.57	46.8	30	0.18	25.1	58.7	154
MAR01806.020	Area i	Sample 5 3.00m	81.5	7.7	0.38	28	21.4	0.01	33.2	16.7	63.7
MAR01806.021	Area i	Sample 5 4.00m	79.5	8.6	0.41	22	19.2	0.03	45.5	13.3	56.6
MAR01806.022	Area i	Sample 6 0.00m	55.2	15.6	0.4	33.5	22.2	0.13	25.5	42.1	109
MAR01806.023	Area i	Sample 6 1.00m	59.3	23.5	0.41	42.4	24.8	0.17	25.8	54.4	136
MAR01806.024	Area i	Sample 6 2.00m	71.4	26.5	0.38	28.8	18.3	0.1	19.2	39.9	105
MAR01806.025	Area i	Sample 6 3.00m	87	6	0.3	21.3	13.3	0.02	24.1	9.7	43.3
MAR01806.026	Area i	Sample 6 4.00m	80.9	6	0.38	27.2	21.5	0.01	33.7	15.5	62.6
MAR01806.027	Area i	Sample 7 0.00m	93.2	15.3	0.67	16.6	10.1	0.02	23.6	14.8	68.2
MAR01806.028	Area i	Sample 7 1.00m	85.2	5.5	0.28	16	14.1	<LOD	20.1	8.9	34.3
MAR01806.029	Area i	Sample 7 1.40m	85.5	1.3	0.43	4.4	4.9	<LOD	12.6	2.8	15.4
MAR01806.030	Area i	Sample 8 0.00m	84.5	10.8	0.44	20.2	13.6	0.03	26.1	14.1	58.4
Limits of detection (mg/kg dry weight):				0.5	0.04	0.5	0.5	0.01	0.5	0.5	2

Organotin data

Instructions:

1. Record the laboratory/contractor responsible for organotin analysis
2. Record the date the samples were analysed.
3. Enter full dataset for each sample in the analysis results table
4. Organotin analysis results should be reported in mg/kg (ppm) dry weight
5. Enter methodological limit of detection for each organotin prior to inputting raw data
6. Where analysis outputs are less than the limits of detection please enter text "<LOD"
7. Where copying and pasting entries please use paste values only
8. Where entering multiple Sample IDs please use the pop-up form
IDs should be separated by a comma

Analysis information:

Laboratory/contractor: SOCOTEC

Date of analysis: 05/04/2023

determinand analysis outputs:

Laboratory sample number	Dredge Area	Sample ID(s)	Total solids (%)	Organotins as mg/kg dry weight	
				Dibutyltine (DBT)	Tributyltin (TBT)
MAR01806.001	Area i	Sample 1 0.00m	53.8	<LOD	<LOD
MAR01806.002	Area i	Sample 1 1.00m	82.3	<LOD	<LOD
MAR01806.003	Area i	Sample 1 2.20m	86.5	<LOD	<LOD
MAR01806.004	Area i	Sample 2 0.00m	72.4	<LOD	<LOD
MAR01806.005	Area i	Sample 2 1.00m	87.3	<LOD	<LOD
MAR01806.006	Area i	Sample 2 2.00m	81.9	<LOD	<LOD
MAR01806.007	Area i	Sample 2 2.95m	82.5	<LOD	<LOD
MAR01806.008	Area i	Sample 3 0.00m	52.6	<LOD	<LOD
MAR01806.009	Area i	Sample 3 1.00m	83.9	<LOD	<LOD
MAR01806.010	Area i	Sample 3 2.00m	87.7	<LOD	<LOD
MAR01806.011	Area i	Sample 3 2.50m	89	<LOD	<LOD
MAR01806.012	Area i	Sample 4 0.00m	60.4	<LOD	<LOD
MAR01806.013	Area i	Sample 4 1.00m	64.4	<LOD	<LOD
MAR01806.014	Area i	Sample 4 2.00m	68.4	<LOD	0.008
MAR01806.015	Area i	Sample 4 3.00m	82.5	<LOD	<LOD
MAR01806.016	Area i	Sample 4 4.00m	79.7	<LOD	<LOD
MAR01806.017	Area i	Sample 5 0.00m	54.3	<LOD	<LOD
MAR01806.018	Area i	Sample 5 1.00m	67	<LOD	<LOD
MAR01806.019	Area i	Sample 5 2.00m	64	0.008	0.029
MAR01806.020	Area i	Sample 5 3.00m	81.5	<LOD	<LOD
MAR01806.021	Area i	Sample 5 4.00m	79.5	<LOD	<LOD
MAR01806.022	Area i	Sample 6 0.00m	55.2	<LOD	<LOD
MAR01806.023	Area i	Sample 6 1.00m	59.3	<LOD	0.01
MAR01806.024	Area i	Sample 6 2.00m	71.4	<LOD	<LOD
MAR01806.025	Area i	Sample 6 3.00m	87	<LOD	<LOD
MAR01806.026	Area i	Sample 6 4.00m	80.9	<LOD	<LOD
MAR01806.027	Area i	Sample 7 0.00m	93.2	<LOD	<LOD
MAR01806.028	Area i	Sample 7 1.00m	85.2	<LOD	<LOD
MAR01806.029	Area i	Sample 7 1.40m	85.5	<LOD	<LOD
MAR01806.030	Area i	Sample 8 0.00m	84.5	<LOD	<LOD
Limits of detection (mg/kg dry weight):				0.005	0.005

