

Appendix 6.5- Estimated Marine Sediment to be generated Marine-based Sediment

Estimation of Types of Sediment to be Excavated from Each Excavation Area

Sampling Grid	Proposed 813mm Diameter Bored Pile		Tentative Piling Depth (mbsl)	Sediment Depth (mbsl)		Sediment Thickness (m)	Estimated Quantity of Sediment to be Generated(m ³)	Total Estimated Quantity of Sediment to be Generated(m ³)	Disposal Arrangement According to ETWB TC(W) No. 34/2002
	Nos.	Area (m ²) ^[1]		From	To				
Grid represented by BHD4	17	0.52	32.25	0.00	0.10	0.10	0.88	7.94	Type 1 - Open Sea Disposal
				0.10	0.90	0.80	7.06		Type 1 - Open Sea Disposal (Dedicated Sites)
Grid represented by BHE1	28	0.52	36.94	0.00	0.10	0.10	0.88	25.6	Type 1 - Open Sea Disposal
				0.10	0.90	0.80	7.06		Type 1 - Open Sea Disposal (Dedicated Sites)
				0.90	1.90	1.00	8.83		Type 1 - Open Sea Disposal
				1.90	2.90	1.00	8.83		Type 1 - Open Sea Disposal (Dedicated Sites)
				2.90	5.90	3.00	0.00		Type 1 - Open Sea Disposal (Dedicated Sites)
				5.90	8.90	3.00	0.00		Type 1 - Open Sea Disposal
				8.90	11.90	3.00	0.00		Type 1 - Open Sea Disposal
				11.90	14.90	3.00	0.00		Type 1 - Open Sea Disposal
				14.90	16.40	1.50	0.00		Type 1 - Open Sea Disposal
Grid represented by BHE2	22	0.52	36.06	0.00	0.10	0.10	1.14	91.4	Type 1 - Open Sea Disposal (Dedicated Sites)
				0.10	2.00	1.90	21.70		Type 1 - Open Sea Disposal (Dedicated Sites)
				2.00	3.00	1.00	11.42		Type 1 - Open Sea Disposal
				3.00	4.00	1.00	11.42		Type 1 - Open Sea Disposal
				4.00	5.00	1.00	11.42		Type 1 - Open Sea Disposal
				5.00	7.00	2.00	22.84		Type 1 - Open Sea Disposal
				7.00	8.00	1.00	11.42		Type 1 - Open Sea Disposal
				8.00	10.00	2.00	0.00		Type 1 - Open Sea Disposal
				10.00	11.00	1.00	0.00		Type 1 - Open Sea Disposal
				11.00	12.00	1.00	0.00		Type 1 - Open Sea Disposal
Grid represented by BHE3	36	0.52	35.8	0.00	0.10	0.10	1.87	259.8	Type 1 - Open Sea Disposal (Dedicated Sites)
				0.10	0.90	0.80	14.95		Type 1 - Open Sea Disposal (Dedicated Sites)
				0.90	1.90	1.00	18.69		Type 1 - Open Sea Disposal (Dedicated Sites)
				1.90	2.90	1.00	18.69		Type 1 - Open Sea Disposal
				2.90	5.90	3.00	56.07		Type 1 - Open Sea Disposal (Dedicated Sites)
				5.90	8.90	3.00	56.07		Type 1 - Open Sea Disposal (Dedicated Sites)
				8.90	11.90	3.00	56.07		Type 1 - Open Sea Disposal
				11.90	13.90	2.00	37.38		Type 1 - Open Sea Disposal
Grid represented by BHE4	52	0.52	35.14	0.00	0.10	0.10	2.70	282.09	Type 1 - Open Sea Disposal (Dedicated Sites)
				0.10	0.90	0.80	21.60		Type 1 - Open Sea Disposal (Dedicated Sites)
				0.90	1.90	1.00	26.99		Type 1 - Open Sea Disposal
				1.90	2.90	1.00	26.99		Type 1 - Open Sea Disposal
				2.90	5.90	3.00	80.98		Type 1 - Open Sea Disposal (Dedicated Sites)
				5.90	8.90	3.00	80.98		Type 1 - Open Sea Disposal
				8.90	10.45	1.55	41.84		Type 1 - Open Sea Disposal

Note:[1] It is estimated by Nos. of Proposed 813 mm Diameter Bored Pile x area of each pile which is calculated by ($\pi \times (0.813/2)^2$) m²

[2] mbsl = meters below ground level

[3] Off-site disposal should be the last resort

Note: Numbers may added up due to rounding

Total Estimated Quantity of Sediment to be Generated (m³)	666.8
Sediment for Type 1 - Open Sea Disposal (m³)^[3]	368.1
Sediment for Type 1 - Open Sea Disposal (Dedicated Sites) (m³)^[3]	298.7