

Table 1. Design Parameters of the Danube–Black Sea Navigation Channel

Section No.	Section name (conventional)	Section boundaries*, km	Section length, m	Bottom width of the channel, m	Channel depth, m (<i>Phase I</i>)	Slopes
1	Sandbar section	-1,898 – 1,534	3432	100	7,65-8,32	1:9
2	Sea – Vilkovo	1,534 – 10,000 10,000 – 20,555	8466 10 555	60 120	7,0	1:6
3	Vilkovo – Izmailsky Chatal	20,555 – 116,000	95445	120	7,0	1:6; 1:1,5
4	Izmailsky Chatal – Reni	116,000- 170,360	54360	120	7,0	1:6
1-4	Total length (from 0-km mark)		170200			

Table 2. Earthwork Requirement During Construction

Section	Soil excavation		Soil storage	
	Work item	Volume, m ³ (Phase 1)	Work item	Volume, m ³ (Phase 1)
River channel section	Sand-reef clearance, total	1880930	Riparian storage sites, total	1726700
	Of that, in Section 3	1726700	Of that, in Section 3	1726700
	Section 2 (Starostambulsky Branch)	154230	Section 2	–
Sandbar section	Seaward access channel	1683600		
	Retaining dam	90000		
Estuarine area			Offshore dumpsite	1927830

Table 3. Area of Riverbed/Seabed Affected by Construction Activity

Channel section and work item	Affected area, m ² (<i>Phase 1</i>)
Reni – Izmailsky Chatal – sand-reef clearance	–
Izmailsky Chatal – Vilково, total	1121105
Of that, due to sand-reef clearance	1121105
storage of dredging spoils at the spoils islands	–
Viokovo – Sea, total	171000
Of that, sand-reef clearance in the Starostambulsky Branch	171000
Sandbar section, total	579050
Of that, construction of seaward access channel	482850
construction of retaining dam	96200
Offshore dumpsite – dredging spoils dumping	580000