

Port of Southampton Passage Planning Depths

Date of Issue 5th February 2024

Latest Passage Planning Depth (PPD) shown Red or Green

Advertised Design Depths (ADD) shown in Blue, also see the current Port of Southampton Tide Tables

Dredge Area	PPD	ADD	Current Survey	Comments
Western Docks				
101 Berth Step	3.0	4.1	2023_H026	Not maintained
101 Berth	10.5	10.5	2023_H026	iso 10.4
102/3 Berths	10.5	10.5	2023_H044	
104 Berth	10.5	10.5	2023_H044	
105 Berth	11.6	11.7	2023_H044	
106 Berth	11.7	11.7	2023_H026	iso 11.5m
107 Berth	11.6	11.7	2023_H026	iso 11.5m
108/109 Berth	11.1/10.9	11.7	2023_H026	
109 Berth Step	2.8	5.5	2023_H026	shoaling towards quay
King George V Dock	9.6	9.8	2023_H018	
110 Berth	7.5	10.2	2023_H018	not maintained, shoaling in NW corner
SCT 5	16.2	16.5	2023_H018	
203 Berth	8.3	9.1	2023_H044	shoaling along quay esatern end to 7.9m
SCT 4	13.4	13.6	2023_H044	
SCT 3	14.0	14.0	2023_H044	
SCT 2	15.1	15.1	2023_H044	
SCT 1	15	15.1	2023_H044	iso 14.8m north end of pocket
SCT 1 Tug Shelf	6.0	6.0	2023_H044	Shoaling in West Corner 5.8m

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Eastern Docks				
20 Berth	6.9	7.5	2023_H042v2	Less than 5m inside gut off bollards 1 - 2
21 Berth	4.3	7.5	2023_H042v2	Shoaling to 3.3m on fuel berth
22 Berth	6.8	6.8	2023_H042v2	
23 Berth	6.8	6.8	2023_H042v2	quay wall damage south of berth/ex DD inset
24 Berth	7.1	7.1	2023_H044	
25 Berth	7.1	7.1	2023_H044	
26 Berth	7.1	7.1	2023_H044	
27 Berth	7.1	7.1	2023_H044	
29 Berth	5.8	5.8	2023_H044	shoaling beyond old linkspan bridge pad
31/32 Berth	9.1	9.1	2023_H042v2	
33 Berth	9.1	9.1	2023_H042v2	
34 Berth	9.9	9.9	2023_H044	
35 Berth	9.9	9.9	2023_H044	
36 Berth	9.9	9.9	2023_H044	
37 Berth	7.8	7.8	2023_H044	iso 7.4m
38 Berth	10.5	10.5	2023_H042v2	iso 10.4 bollard 11
39 Berth	10.5	10.5	2023_H042v2	iso 10.4 bollard 11
40 Berth	9.3	9.3	2023_H044	
41 Berth	8.7	8.7	2023_H044	
43 Berth	11.7	11.7	2023_H044	
44 Berth	11.7	11.7	2023_H044	iso 11.6
45 Berth	10.2	10.2	2023_H044	
46 Berth	10.5	10.5	2023_H044	shoaling to 10m at north end
47 Berth	11.7	11.7	2023_H044	
48 Berth	7.0	7.1	2023_H044	approaches iso 6.8m
49 Berth	7.1	7.1	2023_H042v2	approaches iso 6.8m
50 Berth	1.9	4.2	2023_H042v2	shoaling to 1.2m from Bollard 2 northwards
Ocean Dock	10.5	10.5	2023_H044	
App Ocean Dock	10.5	10.5	2023_H044	iso 10.4m
Lower Itchen Above Empress	9.1	9.1	2023_H044	shoaling to east of channel, iso 8.8m
Empress Dock	7.5	7.8	2023_H044	shaoling off berth 26
Lower Itchen Below Empress	9.1	9.1	2023_H044	Shoaling on east of channel to 8.9m
Itchen Bridge Approach	3.0	3.0	2022_H022	Least depth along track to Itchen Bridge

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Dredge Area	PPD	ADD	Current Survey	Comments
Other Areas				
Marchwood Wharf	3.2	4.0	2023_H038	
Cracknore Jetty (ex. Husbands	3.2	4.2	2021_H053	
SGL Mulberry Jetty (No.1-2)	4.2	4.9	2022_H020	
SGL Falkland Jetty (No.3-4)	8.5	8.5	2022_H039	iso 8.3 - 8.4m Shoals in approach.
SGL Gun Wharf Jetty (No.5)	4.4	4.9	2022_H020	
SGL Gun Wharf Jetty (No.6)	2.7	3.0	2022_H020	
Princes Wharf	2.0	2.0	2024_H005	iso 1.6m outside edge of berth pocket.
Saxon Wharf	2.5	2.5	2022_H022	
Dibles Wharf	1.9	2.2	2022_H022	
Dibles Gut	1.3	2.0	2022_H022	
Crown & Leamouth Wharves	2.9	3.0	2024_H005	shoaling south end towards Britannia Wharf.
Britannia Wharf	2.0	2.2	2024_H005	shoaling alongside quay 1m
Phoenix Wharf	2.4	2.4	2023_H031	shoaling north and south quay.
Burnley Wharf	1.6	2.0	2023_H031	shoaling 1.6m
Centenary Wharf (North)	6.3	6.3	2019_H071	
Solent Refit Approaches	6.7	6.7	2019_H072	
BP Hamble	13.0	13.6	2024_H006	shoaling to 12.9m NW end of berth pocket
BP Hamble Approaches	10.9	11.2	2024_H006	10.9m northern end of approaches
FMT 1	10.2	10.2	2023_H041	
FMT 1 Approaches	10.2	10.2	2023_H041	
FMT 2	12.6	12.6	2023_H041	
FMT 2 Approaches	10.2	10.2	2023_H041	
FMT 3	12.6	12.6	2023_H041	
FMT 3 Approaches	12.6	12.6	2023_H041	
FMT 4	14.9	14.9	2023_H041	
FMT 4 Approaches	13.2	13.2	2023_H041	
FMT 5	14.9	14.9	2023_H041	
FMT 5 Approaches	13.2	13.2	2023_H041	
FMT 6	5.6	5.6	2023_H041	
FMT 7	5.6	5.6	2023_H041	
FMT 8	5.6	5.6	2023_H041	
FMT 9	6.6	6.6	2023_H041	
FMT Coastal Approach (6-9)	5.6	5.6	2023_H041	
Fawley Power Station	1.5	2.4	2021_H026	shoaling within basin to 0.8m and -0.6m north quay
Solent Refit Approaches	1.4	1.4		

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Channel					
	Eling Channel	0.8	-0.8	2021_H051	
	Soton Container Terminal	13.0	13.0	2023_H044	shoaling to 12.8m ivo Eling, iso 12.6m
	Bury Swinging Ground	9.8	10	2023_H044	Shoaling at edges
	Bury Reach	13.0	13.0	2023_H044	iso 12.8m
	Upper Swinging Ground	13.2	13.2	2023_H044	shoaling to 12.8m within 40m of channel edges
	Western Docks	13.2	13.2	2023_H044	shoaling on channel edges to 12.7m
	Marchwood Channel	2.0	3.0	2022_H015	
	Middle Swinging Ground	13.2	13.2	2023_H044	Shoaling to 12.8m ivo Dibden Buoy
	Middle Swinging Ground Ext	10.2	10.2	2023_H044	shoaling to 9.6m
	Junction Channel	13.1	13.2	2023_H044	
	Lower Swinging Ground MC	13.2	13.2	2023_H044	
	Lower Swinging Ground Itchen	10.2	10.2	2023_H044	iso 10m
	NW Netley to Dock Head	13.2	13.2	2023_H044	iso 13m on channel edges
	Greenland to Hound	13.2	13.3	2023_H044	iso 13m
	Natural Deep	13.2	13.4	2023_H044	Pipeline not maintained 12.5m, iso 13m south of pipeline
	Hook to Fawley Reach	13.6	13.6	2023_H044	iso 13m, iso 12.3m shoals S of Esso 5
	Calshot Turn Outer	12.2	12.6	2023_H044	shoaling on E side at North Chn entrance
	North Thorn to Hook	13.4	13.6	2023_H044	iso 13m calshot turn shoals
	North Channel	4.2	4.2	2023_H032	shoaling on channel edges. Iso 3.8m
	South Bramble	13.4	13.6	2023_H044	iso 13m centre channel and 12.6m channel edges
	Nab Channel	14.4	14.4	2023_H033	iso 14.1m Western side of channel
	Prince Consort shoals			2023_H044	see chart - 11.9m 150m NNW of PC buoy 9.8m shoal 77mm W of PC buoy

Water Density Measurements

Measured from surface samples at the locations and dates detailed below

2021 Monthly Averages								
	SCT	USG	MSG	JC	DH	SW	Calshot	Central Solent
January	1021.549	1022.51	1020.913	1021.452	1021.405	1023.747	1024.93	1025.156
February	1020.826	1022.288	1021.553	1021.452	1021.405	1022.296	1024.93	1025.671
March	1021.798	1022.763	1022.177	1022.691	1023.093	1023.386	1022.86	1025.671
April	1023.139	1023.066	1022.177	1023.815	1023.585	1025.227	1025.769	1025.671
May	1022.482	1022.925	1021.718	1022.442	1023.465	1024.291	1024.724	1025.671
June	1021.623	1022.375	1021.247	1022.216	1021.746	1022.709	1023.05	1024.21
July	1019.61	1020.924	1019.679	1021.869	1021.854	1022.276	1023.538	1023.722
August	1021.801	1022.407	1019.679	1022.208	1021.722	1022.464	1023.538	1023.827
September	1022.763	1022.69	1021.497	1022.872	1022.534	1023.089	1023.538	1023.827
October	1023.432	1022.199	1023.483	1022.087	1022.534	1023.71	1023.538	1023.827

Densities given in this report are averages of those measured over Flood, HW Stand and Ebb tidal states
Full information is available from the Port Hydrographic Office