

## Appendix J: Width of Zone of Reduced Foundation Capacity (ZRFC), in metres

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**Table J-1: Maloneys Beach**

Block	Profile	2017	2050	2065	2100
E	1	6.2	6.2	6.2	6.2
E	2	6.6	6.6	6.6	6.6
E	3	7.5	7.5	7.5	7.5
E	4	7.9	7.9	7.9	7.9
E	5	8.3	8.3	8.3	8.3
E	6	9.4	9.4	9.4	9.4
E	7	9.3	9.3	9.3	9.3
E	8	10.0	10.0	10.0	10.0
E	9	9.9	9.9	9.9	9.9
E	10	10.1	10.1	10.1	10.1
E	11	10.3	10.3	10.3	10.3
E	12	10.6	10.6	10.6	10.6
E	13	10.2	10.2	10.2	10.2
E	14	10.4	10.4	10.4	10.4
E	15	10.2	10.2	10.2	10.2
E	16	10.2	10.2	10.2	10.2
E	17	10.3	10.3	10.3	10.3
E	18	9.5	9.5	9.5	9.5
E	19	9.9	9.9	9.9	9.9
E	20	9.7	9.7	9.7	9.7
E	21	9.8	9.8	9.8	9.8
E	22	9.8	9.8	9.8	9.8
E	23	9.4	9.4	9.4	9.4
E	24	9.1	9.1	9.1	9.1
E	25	8.7	8.7	8.7	8.7
E	26	9.3	9.3	9.3	9.3
E	27	8.9	8.9	8.9	8.9
E	28	8.5	8.5	8.5	8.5
E	29	8.9	8.9	8.9	8.9
E	30	8.9	8.9	8.9	8.9
E	31	8.6	8.6	8.6	8.6
E	32	8.4	8.4	8.4	8.4
E	33	7.9	7.9	7.9	7.9
E	34	8.0	8.0	8.0	8.0
E	35	7.4	7.4	7.4	7.4
E	36	5.2	5.2	5.2	5.2
E	37	6.9	6.9	6.9	6.9
E	38	6.4	6.4	6.4	6.4

**Table J-2: Long Beach**

Block	Profile	1% encounter probability				5% encounter probability			
		2017	2050	2065	2100	2017	2050	2065	2100
C	1	8.6	8.8	8.8	8.8	9.7	9.0	9.0	8.9
C	2	8.6	8.3	8.4	8.6	9.9	8.2	8.9	8.8
C	3	8.9	7.7	8.0	8.2	9.5	9.1	8.8	8.4
C	4	9.2	7.6	7.7	7.9	10.7	9.1	8.9	8.4
C	5	9.2	7.6	7.8	8.3	10.4	8.9	8.5	8.3
C	6	8.4	8.1	8.1	8.3	9.3	8.2	8.0	8.2
C	7	10.2	8.2	8.3	9.1	9.0	8.3	8.1	8.5
C	8	9.7	8.3	8.5	9.0	9.9	8.6	8.5	8.7
C	9	9.8	8.1	8.3	9.2	10.3	8.8	8.6	8.8
C	10	9.5	8.3	9.1	9.2	10.1	8.6	8.5	8.6
C	11	9.8	9.1	9.5	9.4	10.0	8.6	8.4	9.0
C	12	9.7	9.9	9.7	9.6	9.4	8.4	8.4	9.2
C	13	8.7	9.6	9.4	9.7	8.7	8.1	8.2	9.1
C	14	9.0	9.3	9.3	9.9	10.1	8.2	8.6	9.1
C	15	9.0	9.3	9.3	9.3	10.3	8.6	9.0	9.1
C	16	8.6	10.4	10.5	10.1	9.2	8.0	8.4	9.2
C	17	8.9	10.1	9.7	9.5	9.9	7.8	7.9	9.0
C	18	9.0	10.2	9.7	9.4	10.4	7.9	7.9	9.2
C	19	9.1	9.5	9.2	9.1	9.9	7.9	7.9	8.9
C	20	8.5	9.5	9.3	9.9	10.1	7.3	7.7	9.2
C	21	8.2	9.5	9.6	9.6	9.5	8.1	8.7	9.0
C	22	8.2	9.3	9.3	9.6	9.9	10.3	10.1	9.4
C	23	7.9	9.6	9.5	9.7	9.9	9.9	9.9	9.5
C	24	8.4	10.1	10.3	10.3	10.2	9.3	9.5	9.6
C	25	8.3	10.4	10.4	10.5	9.7	10.3	10.2	9.9
C	26	9.4	10.0	9.7	9.4	9.5	9.6	9.8	9.9
C	27	8.8	10.3	10.0	9.6	10.2	9.4	9.4	9.8
C	28	8.9	9.7	9.4	9.0	10.0	9.2	8.9	9.4
C	29	10.0	9.8	9.8	9.3	10.5	8.6	8.7	9.4
C	30	11.0	9.9	10.0	10.3	11.2	9.6	9.6	10.1
C	31	9.8	9.9	10.0	10.2	9.3	10.2	10.1	10.1
C	32	10.6	10.0	10.0	10.2	11.7	10.5	10.4	10.5
C	33	9.6	9.9	9.8	10.0	9.8	10.6	10.5	10.1
C	34	9.6	9.6	9.7	9.8	9.5	10.3	10.1	9.8
C	35	10.1	9.8	9.9	10.3	9.6	11.2	10.8	10.2
C	36	10.0	10.0	10.0	10.2	9.9	10.8	10.8	10.2
C	37	9.5	10.3	10.4	10.3	10.3	10.5	10.5	10.2
C	38	10.1	11.2	11.2	10.9	10.9	10.6	10.7	10.8
C	39	9.6	10.9	10.8	10.5	9.9	9.7	10.0	10.3

**Table J-3: Long Beach (continued)**

Block	Profile	1% encounter probability				5% encounter probability			
		2017	2050	2065	2100	2017	2050	2065	2100
C	40	9.1	10.6	10.6	10.6	9.5	10.9	10.7	10.5
C	41	11.0	10.7	10.7	10.7	9.9	10.7	10.7	10.7
C	42	10.0	10.0	10.0	10.0	10.2	9.9	9.9	10.0
C	43	9.7	10.0	10.0	9.8	12.2	9.3	9.4	9.8
C	44	11.0	10.6	10.6	10.6	11.3	10.6	10.6	10.7
C	45	10.1	10.8	10.8	10.8	9.4	11.1	11.0	10.8
C	46	9.8	10.1	10.0	10.0	9.8	9.9	10.1	10.0
C	47	9.9	9.6	9.6	9.6	10.3	9.7	9.7	9.7
C	48	10.2	10.2	10.2	10.2	10.3	10.2	10.2	10.2
C	49	11.4	11.1	11.1	11.1	10.7	11.1	11.1	11.1
C	50	10.9	12.4	12.4	12.2	10.7	12.0	12.2	12.0
C	51	10.3	10.8	10.8	10.8	9.4	10.7	10.8	10.7
C	52	11.1	9.9	9.9	10.2	10.5	10.4	10.3	10.3
C	53	10.7	10.0	9.8	10.1	10.3	10.8	10.7	10.4
C	54	10.2	10.2	10.1	10.1	10.8	11.0	10.8	10.5
C	55	9.3	8.8	8.7	9.2	10.9	10.8	10.3	9.6
C	56	10.4	9.5	9.4	9.6	10.7	10.1	10.0	9.9
C	57	10.1	10.0	9.9	9.9	10.9	10.2	10.2	10.1
C	58	10.5	10.0	10.0	10.2	9.0	10.6	10.4	10.3
C	59	10.3	10.2	10.1	10.3	9.8	10.6	10.5	10.4
C	60	10.2	10.8	10.7	10.4	12.6	10.6	10.6	10.5
C	61	10.5	10.3	10.3	10.3	11.7	10.5	10.4	10.4
C	62	9.8	9.2	9.1	9.2	12.1	8.9	9.0	9.5
C	63	9.9	10.1	10.1	9.9	11.0	9.7	9.8	10.0
C	64	9.4	9.1	9.1	9.2	11.4	9.8	9.7	9.5
C	65	9.5	9.1	9.0	9.1	10.7	9.3	9.3	9.3
C	66	8.5	9.1	8.6	8.1	9.9	7.4	7.8	8.3
C	67	8.8	7.9	7.9	8.1	9.1	8.3	8.2	8.4
C	68	8.0	7.1	7.1	7.4	7.9	7.5	7.4	7.5
C	69	7.0	7.4	7.4	7.4	8.0	7.3	7.3	7.3
C	70	7.6	7.6	7.7	7.7	8.3	7.5	7.4	7.5
C	71	8.6	8.4	8.2	8.1	9.6	8.4	8.4	8.4
C	72	9.7	9.1	9.1	8.8	9.7	8.8	8.9	9.2
D	1	9.8	9.5	9.5	9.5	10.2	9.6	9.6	9.6
D	2	10.8	10.2	10.1	10.2	8.7	10.4	10.4	10.3
D	3	9.1	9.1	9.1	9.2	9.1	9.4	9.3	9.3
D	4	9.3	9.5	9.5	9.4	8.9	9.5	9.5	9.4
D	5	8.9	8.6	8.6	8.6	8.7	8.7	8.6	8.7
D	6	8.6	8.5	8.5	8.6	9.0	8.7	8.7	8.7

**Table J-4: Long Beach (continued)**

Block	Profile	1% encounter probability				5% encounter probability			
		2017	2050	2065	2100	2017	2050	2065	2100
D	7	8.9	8.8	8.8	8.8	8.3	8.7	8.7	8.7
D	8	8.8	8.3	8.3	8.4	8.2	8.5	8.5	8.4
D	9	8.4	8.1	8.2	8.2	7.9	8.2	8.3	8.1
D	10	7.7	8.2	8.2	8.1	7.4	8.2	8.2	8.1
D	11	7.9	7.9	7.9	8.0	7.5	8.1	8.1	8.0
D	12	7.7	7.9	8.0	8.0	7.4	8.0	8.0	7.9
D	13	8.1	8.2	8.2	8.1	7.1	8.0	8.1	8.0
D	14	8.1	8.7	8.8	8.7	7.9	8.6	8.6	8.5
D	15	7.8	8.4	8.2	8.1	7.4	8.3	8.3	8.2
D	16	8.5	8.3	8.4	8.4	8.0	8.3	8.3	8.3
D	17	8.3	8.1	8.1	8.1	8.5	8.0	8.0	8.1
D	18	8.4	7.9	8.0	8.1	8.2	8.0	8.0	8.2
D	19	8.4	8.2	8.2	8.3	8.1	8.3	8.3	8.3
D	20	8.2	7.7	7.9	8.1	7.4	8.0	7.9	8.0
D	21	8.0	7.6	7.6	7.7	7.4	7.8	7.6	7.7
D	22	7.0	6.9	7.0	7.1	7.1	7.6	7.4	7.1
D	23	6.9	7.5	7.4	7.4	7.6	7.4	7.5	7.3
D	24	7.4	7.2	7.3	7.3	7.7	7.3	7.3	7.3
D	25	7.5	8.0	8.0	8.1	7.5	8.1	8.1	8.0
D	26	7.4	7.8	7.7	7.9	7.2	8.2	8.1	7.8
D	27	7.7	7.1	7.1	7.3	7.0	7.5	7.6	7.4
D	28	7.4	8.1	8.3	8.1	7.2	7.8	7.8	7.8
D	29	7.1	7.6	7.6	7.7	7.3	7.6	7.6	7.6
D	30	7.1	7.8	7.8	8.0	7.5	7.7	7.7	7.7
D	31	7.7	7.7	7.8	7.7	7.1	6.8	7.1	7.3
D	32	8.1	7.0	6.9	7.0	6.6	6.9	6.9	7.1

**Table J-5: Surfside Beach (east)**

Block	Profile	1% encounter probability				5% encounter probability			
		2017	2050	2065	2100	2017	2050	2065	2100
A	1	5.1	5.1	5.1	5.1	5.4	5.1	5.1	5.1
A	2	5.1	5.0	5.0	5.1	5.3	4.9	5.1	5.0
A	3	5.6	5.2	5.1	5.1	5.5	5.6	5.6	5.2
A	4	5.5	6.0	5.8	5.4	5.6	6.0	6.0	5.9
A	5	5.7	5.7	5.7	5.7	5.9	5.8	5.7	5.7
A	6	5.9	6.4	6.5	6.6	5.5	6.2	6.3	6.5
A	7	5.5	5.8	5.8	5.7	5.9	6.0	5.9	5.8
A	8	5.3	6.2	6.2	6.3	6.5	6.0	6.1	6.2
A	9	6.4	6.2	6.2	6.2	6.7	6.4	6.3	6.2

**Table J-5: Surfside Beach (east) (continued)**

Block	Profile	1% encounter probability				5% encounter probability			
		2017	2050	2065	2100	2017	2050	2065	2100
A	10	6.0	6.0	6.1	6.7	8.5	5.1	5.3	6.4
A	11	6.5	6.2	6.3	6.4	6.8	5.5	5.8	6.2
A	12	6.5	5.2	5.6	5.8	7.4	5.9	5.6	5.6
A	13	6.5	6.5	6.6	6.5	7.3	6.2	6.1	6.6
A	14	7.4	5.7	5.7	5.6	5.9	6.2	5.9	5.6
A	15	7.1	5.4	5.6	5.7	7.9	5.7	5.4	5.4
A	16	6.8	5.9	6.0	5.9	7.3	6.2	6.0	6.0
A	17	6.9	5.7	5.5	5.5	7.4	6.3	6.0	5.6
A	18	7.1	5.9	6.2	6.3	7.5	6.5	6.2	6.0
A	19	7.1	6.5	6.3	6.3	7.1	7.1	6.9	6.4
A	20	6.7	7.1	6.8	6.8	6.4	7.2	7.1	7.0
A	21	6.8	6.5	6.5	6.5	6.2	6.9	6.7	6.5
A	22	7.1	6.6	6.6	6.7	7.4	6.7	6.6	6.6
A	23	7.0	6.9	6.7	6.5	7.1	6.7	6.7	7.0
A	24	6.5	6.5	6.3	6.3	7.0	7.1	6.9	6.4
A	25	6.9	6.9	6.7	6.7	7.0	7.0	7.0	6.8
A	26	6.9	6.6	6.5	6.5	6.9	6.6	6.7	6.5
A	27	6.4	6.5	6.5	6.7	7.2	6.3	6.3	6.6
A	28	6.8	6.5	6.3	6.3	6.7	6.6	6.5	6.4
A	29	5.8	6.4	6.3	6.3	6.1	6.1	6.4	6.2
A	30	5.2	6.3	6.3	6.4	5.7	6.1	6.1	6.1
A	31	5.4	6.2	6.2	6.1	6.8	5.8	5.9	5.9
A	32	5.7	6.1	6.1	6.0	6.8	5.4	5.6	5.7
B	1	6.3	5.9	5.9	5.9	6.9	6.0	6.0	6.1
B	2	5.8	6.1	6.1	6.0	6.8	5.7	5.7	5.8
B	3	5.9	6.0	6.0	5.9	6.5	5.6	5.7	5.8
B	4	6.7	5.8	5.9	6.0	7.1	5.8	5.8	6.2
B	5	6.6	6.1	6.2	6.2	6.4	6.0	6.1	6.3
B	6	5.7	5.9	5.8	5.8	6.5	5.7	5.7	5.7
B	7	5.6	6.0	6.0	5.9	6.6	5.8	5.9	5.8
B	8	5.5	5.9	5.9	5.9	7.4	5.8	5.8	5.8
B	9	5.9	5.7	5.7	5.7	6.7	5.7	5.7	5.7
B	10	5.7	5.3	5.3	5.3	7.1	5.5	5.5	5.6
B	11	4.9	5.2	5.2	5.1	5.4	4.9	4.9	5.1
B	12	5.2	5.2	5.2	5.2	6.1	5.2	5.2	5.2

**Table J-6: Surfside Beach (west)**

Block	Profile	1% encounter probability				5% encounter probability			
		2017	2050	2065	2100	2017	2050	2065	2100
1	4	5.0	5.0	5.0	5.0	4.8	5.1	5.1	5.0
1	5	5.0	4.9	4.9	4.9	5.1	4.9	4.9	5.0
1	6	5.0	5.0	5.0	5.1	5.1	5.1	5.1	5.0
1	7	5.3	5.2	5.2	5.3	5.7	5.4	5.3	5.3

**Table J-7: Sunshine Bay**

Block	Profile	2017	2050	2065	2100
1	4	11.6	11.6	11.6	11.6
2	1	8.7	8.7	8.7	8.7

**Table J-8: Malua Bay**

Block	Profile	1% encounter probability				5% encounter probability			
		2017	2050	2065	2100	2017	2050	2065	2100
1	1	7.4	8.1	8.2	8.1	7.5	7.6	7.6	7.7
1	2	8.0	7.3	7.3	7.3	7.3	7.1	7.2	7.4
1	3	9.4	8.7	9.0	9.1	9.2	8.9	8.8	9.0
1	4	9.3	9.9	9.9	9.8	8.3	9.5	9.6	9.5
1	5	9.9	9.3	9.6	9.6	8.9	9.3	9.2	9.5
1	6	11.0	9.9	9.9	10.2	8.8	10.3	10.3	10.4
2	1	10.0	9.8	9.8	10.1	8.9	10.2	10.2	10.2
2	2	10.2	10.8	10.8	10.8	11.3	10.7	10.7	10.7
2	3	10.0	10.2	10.3	10.3	9.6	10.3	10.3	10.2
2	4	9.6	10.3	10.3	10.3	11.5	10.4	10.3	10.4
2	5	10.5	11.9	11.8	11.6	10.7	11.7	11.7	11.4
2	6	6.8	4.4	6.7	6.7	6.6	7.2	6.4	6.2

**Table J-9: Guerilla Bay (south)**

Block	Profile	2017	2050	2065	2100
5	1	10.0	10.0	10.0	10.0
6	1	8.0	8.0	8.0	8.0
6	2	7.9	7.9	7.9	7.9
6	3	6.1	6.1	6.1	6.1

**Table J-10: Barlings Beach**

Block	Profile	2017	2050	2065	2100
1	1	11.8	11.8	11.8	11.8
1	2	10.8	10.8	10.8	10.8
1	3	9.7	9.7	9.7	9.7
1	4	9.1	9.1	9.1	9.1
1	5	9.5	9.5	9.5	9.5
1	6	10.2	10.2	10.2	10.2
2	1	14.9	14.9	14.9	14.9
2	2	14.1	14.1	14.1	14.1
2	3	10.4	10.4	10.4	10.4
2	4	12.1	12.1	12.1	12.1
2	5	13.0	13.0	13.0	13.0
2	6	11.3	11.3	11.3	11.3
2	7	11.4	11.4	11.4	11.4
2	8	9.7	9.7	9.7	9.7
2	9	6.7	6.7	6.7	6.7
2	10	8.4	8.4	8.4	8.4
3	1	13.8	13.8	13.8	13.8
3	2	11.6	11.6	11.6	11.6
3	3	9.4	9.4	9.4	9.4
3	4	8.6	8.6	8.6	8.6

**Table J-11: Tomakin Cove**

Block	Profile	1% encounter probability				5% encounter probability			
		2017	2050	2065	2100	2017	2050	2065	2100
1	1	6.6	8.7	8.5	8.6	4.9	8.5	8.6	8.4
1	2	8.8	9.2	9.1	9.1	10.0	9.1	9.0	9.2
1	3	9.2	9.3	9.3	9.2	9.1	9.2	9.2	9.3
1	4	10.9	9.8	10.2	10.7	10.8	10.6	10.5	10.7
1	5	9.8	10.6	10.4	10.0	9.5	10.0	10.1	9.9
1	6	7.0	9.7	9.8	9.6	6.7	9.4	9.5	9.0
2	1	10.7	9.8	9.8	9.8	8.0	9.7	9.8	9.6
2	2	9.8	9.7	9.7	9.9	9.8	10.0	9.9	10.0
2	3	9.2	9.3	9.2	9.1	8.8	9.1	9.1	9.2
2	4	9.6	9.1	9.1	9.3	9.3	9.3	9.3	9.4
2	5	8.3	8.8	8.9	8.7	8.6	8.5	8.5	8.6
2	6	8.4	7.9	7.9	7.9	7.8	7.8	7.8	8.0
3	1	7.9	8.8	8.9	8.7	9.0	8.6	8.6	8.7
3	2	9.8	9.6	9.6	9.6	8.7	10.2	10.0	9.6
3	3	9.2	10.2	9.9	10.1	10.7	9.6	9.9	10.3
3	4	9.9	11.8	11.3	10.7	10.5	11.1	10.9	10.7
3	5	11.0	13.5	13.5	11.8	9.5	12.5	12.2	11.4

**Table J-12: Broulee Beach**

Block	Profile	1% encounter probability				5% encounter probability			
		2017	2050	2065	2100	2017	2050	2065	2100
M	1	5.9	7.2	7.0	6.6	5.8	8.4	8.3	7.7
M	2	5.9	9.8	9.6	9.8	8.8	5.9	8.1	10.1
M	3	6.1	6.9	7.0	7.3	5.4	7.6	7.3	7.1
M	4	5.5	5.4	5.3	5.3	6.3	7.1	6.9	6.2
M	5	6.1	5.5	5.3	5.4	5.3	6.2	6.1	6.0
M	6	6.4	7.9	7.8	7.1	5.8	6.8	6.9	7.0
M	7	6.4	7.1	7.1	7.1	6.0	8.6	8.4	7.7
M	8	5.7	8.9	8.7	8.1	5.2	8.1	8.1	8.2
M	9	6.8	7.1	7.1	7.6	5.9	8.7	8.6	7.9
M	10	6.3	7.4	7.6	7.5	6.9	7.6	7.5	7.1
N	1	8.0	8.9	9.2	9.0	7.7	7.3	7.6	8.0
N	2	7.7	10.1	10.3	10.4	7.4	10.1	10.0	9.6
N	3	15.4	17.7	17.8	16.6	6.1	15.0	15.5	16.0
N	4	6.5	9.5	9.9	9.6	8.4	6.7	7.0	7.6
N	5	12.6	11.6	11.6	12.0	7.9	12.6	12.4	11.9
N	6	11.1	11.0	11.0	11.0	8.2	11.3	11.3	11.0
N	7	10.4	13.1	13.1	12.1	9.2	12.3	12.3	12.2
N	8	13.3	11.6	11.5	11.8	8.2	11.9	11.9	11.8
N	9	12.3	13.6	13.7	13.5	12.7	12.8	13.0	13.1
N	10	12.2	12.7	12.4	12.1	10.5	13.2	13.1	12.6
N	11	12.7	11.1	11.4	12.1	13.9	11.1	11.1	12.0
N	12	10.9	10.6	10.7	10.9	13.9	10.1	10.2	10.9
N	13	11.7	12.6	13.3	11.9	17.4	9.9	10.3	12.0
N	14	12.2	14.1	14.4	13.6	13.9	11.8	12.3	13.1
N	15	15.1	11.1	11.4	11.8	9.2	10.3	10.3	11.9
N	16	12.0	11.8	11.7	11.7	8.8	11.7	11.7	11.7
N	17	13.0	12.1	12.0	12.4	15.4	12.0	12.0	12.7
N	18	13.9	12.2	12.4	12.8	9.9	12.1	12.2	12.7
N	19	11.9	11.2	11.3	11.6	11.2	11.9	11.8	11.7
N	20	13.0	11.9	11.8	12.4	14.2	12.4	12.3	12.6
O	1	12.0	11.8	12.0	12.2	11.1	12.8	12.5	12.1
O	2	12.0	10.0	10.1	11.4	14.1	10.7	10.8	11.8
O	3	11.8	9.3	9.7	11.3	14.8	10.0	10.4	11.9
O	4	11.5	9.8	10.1	11.7	15.2	10.4	10.7	12.2
O	5	12.2	11.5	11.4	12.3	15.2	11.6	11.7	12.7
O	6	14.0	12.0	12.4	13.5	16.0	13.1	13.1	13.8
O	7	18.5	14.4	14.4	15.3	8.2	15.2	15.2	15.5
O	8	4.5	5.7	6.2	7.7	5.2	8.1	7.3	7.2