

## Appendix I – Option Costs

**Cost Case 1 - Contractor 1**

Description	Unit	Quantity	Rate	Total
1 Prelims				1,500,000
2 Staged Construction	sum			4,000,000
3 Marine SI Phase 1	sum			160,000
4 Marine SI Phase 2	sum			340,000
5 Band Drains	no	40000	83	3,320,000
6 Quarry Run	m3	165000	65	10,725,000
7 300-1000kg rock	m3	40000	65	2,600,000
8 1 - 3t rock	m3	30000	80	2,400,000
9 Settlement allowance	m3	75000	65	4,875,000
10 Concrete wall	m3	5000	200	1,000,000
11 Services	sum			100,000
12 Demolition of existing jetty	sum			250,000
	<b>Sub Total</b>			<b>31,270,000</b>
13 ES & Consents				100,000
14 Design				150,000
15 Supervision				400,000
16 Physical Model Testing				50,000
17 Contingency & Risk (20% of Construction Cost)				6,254,000
	<b>Total</b>			<b>38,224,000</b>

**Optimistic Estimate****30,562,000**

Assuming better ground conditions allowing steeper profile and lower quantities

**Cost Case 2 - Contractor 2**

Description	Unit	Quantity	Rate	Total
1 Prelims				2,203,000
2 Staged Construction	sum			1,894,000
3 Marine SI Phase 1	sum			160,000
4 Marine SI Phase 2	sum			340,000
5 Band Drains	no	40000	42.95	1,718,000
6 Quarry Run	m3	165000	42	6,930,000
7 300-1000kg rock	m3	40000	90.34	3,613,600
8 1 - 3t rock	m3	30000	108.41	3,252,300
9 Settlement allowance	m3	75000	42	3,150,000
10 Concrete wall	sum			1,564,000
11 Services	sum			100,000
12 Demolition of existing jetty	sum			250,000
	<b>Sub Total</b>			<b>25,174,900</b>
13 ES & Consents				100,000
14 Design				250,000
15 Supervision				400,000
16 Physical Model Testing				50,000
17 Contingency & Risk (20% of Construction Cost)				5,034,980
	<b>Total</b>			<b>31,009,880</b>

**Optimistic Estimate****25,487,032**

Assuming better ground conditions allowing steeper profile and lower quantities

**Cost Case 3 - Contractor 2 (Recycled Fill)**

Description	Unit	Quantity	Rate	Total
1 Prelims				2,203,000
2 Staged Construction	sum			1,894,000
3 Marine SI Phase 1	sum			160,000
4 Marine SI Phase 2	sum			340,000
5 Band Drains	no	40000	42.95	1,718,000
6 Quarry Run	m3	165000	21	3,465,000
7 300-1000kg rock	m3	40000	90.34	3,613,600
8 1 - 3t rock	m3	30000	108.41	3,252,300
9 Settlement allowance	m3	75000	21	1,575,000
10 Concrete wall	sum			1,564,000
11 Services	sum			100,000
12 Demolition of existing jetty	sum			250,000
	<b>Sub Total</b>			<b>20,134,900</b>
13 ES & Consents				100,000
14 Design				250,000
15 Supervision				400,000
16 Physical Model Testing				50,000
17 Contingency & Risk (20% of Construction Cost)				4,026,980
	<b>Total</b>			<b>24,961,880</b>

**Optimistic Estimate****21,329,032**

Assuming better ground conditions allowing steeper profile and lower quantities