

Coogee Bay Floodplain Risk
Management Study & Plan

APPENDIX

E

FLOOD MODIFICATION
COST ESTIMATES

Cost EstimateOpt: **FM1 - Upper Dolphin**

ITEM NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	COST
1.0 GENERAL AND PRELIMINARIES					
1.1	Site establishment, security fencing, facilities & disestablishment	1	item		
1.2	Provision of sediment & erosion control	1	item		
1.3	Construction setout & survey	1	item		
1.4	Work as executed survey & documentation	1	item		
1.5	Geotechnical supervision, testing & certification	1	item		
	SUBTOTAL (Assumed as 30% of works cost, excluding property purchase)				37,300
2.0 DEMOLITION, CLEARING AND GRUBBING					
2.1	Clearing & grubbing of vegetated areas (nominal allowance)	600	sq. m	10	6,000
2.2	Strip topsoil & stockpile for re-use (assuming 150mm depth)	90	cu. m	10	900
2.3	Dispose of excess topsoil (nominal 10% allowance)	9	cu. m	60	540
2.4	Tree removal for backyards	1	item	10000	10,000
	SUBTOTAL				17,440
3.0 DRAINAGE					
3.1	Excavate, remove, and dispose of existing pipe section	6	item	5000	30,000
3.2	Supply, bed, lay, joint, and backfill chamber	6	item	6000	36,000
3.3	Supply and connect 2m x 2m grated inlet pit	8	item	2000	16,000
3.4	Supply and connect 1.05m x 1.05m grated inlet pit	2	item	1500	3,000
	SUBTOTAL				85,000
4.0 MINOR LANDSCAPING					
4.1	Repair disturbed areas in accordance with landscape architects requirements (nominal allowance)	600	sq. m	20	12,000
4.2	Replanting of trees in backyards	1	item	10000	10,000
	SUBTOTAL				22,000
CONSTRUCTION SUB-TOTAL					161,740
5.0 CONTINGENCIES					
5.1	50% construction cost				80,870
CONSTRUCTION TOTAL, excluding GST					242,610
GST					24,261
CONSTRUCTION TOTAL, including GST					266,871
CONSTRUCTION TOTAL, rounded					266,900
DISCLAIMER:					
1. This estimate of cost is provided in good faith using information available at this stage. This estimate of cost is not guaranteed. Cardno (NSW) will not accept liability in the event that actual costs exceed the estimate.					
NOTES:					
1. Estimate does not include Consultant's fees, including design or project management					
2. Estimate / rates in 2015 dollars and does not allow for inflation					

Cost EstimateOpt: **FM6 - Abbott Street**

ITEM NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	COST
1.0 GENERAL AND PRELIMINARIES					
1.1	Site establishment, security fencing, facilities & disestablishment	1	item		
1.2	Provision of sediment & erosion control	1	item		
1.3	Construction setout & survey	1	item		
1.4	Work as executed survey & documentation	1	item		
1.5	Geotechnical supervision, testing & certification	1	item		
	SUBTOTAL (Assumed as 15% of works cost, excluding property purchase)				4,800
2.0 DEMOLITION, CLEARING AND GRUBBING					
2.1	Clearing & grubbing of vegetated areas (nominal allowance)	200	sq. m	10	2,000
2.2	Strip topsoil & stockpile for re-use (assuming 150mm depth)	30	cu. m	10	300
2.3	Dispose of excess topsoil (nominal 10% allowance)	3	cu. m	60	180
	SUBTOTAL				2,480
3.0 DRAINAGE					
3.1	Excavate, remove, and dispose of existing pipe section	2	item	5000	10,000
3.2	Supply, bed, lay, joint, and backfill chamber	2	item	6000	12,000
3.3	Supply and connect 2m x 2m grated inlet pit	1	item	2000	2,000
3.4	Supply and connect 1.05m x 1.05m grated inlet pit	1	item	1500	1,500
	SUBTOTAL				25,500
4.0 MINOR LANDSCAPING					
4.1	Repair disturbed areas in accordance with landscape architects requirements (nominal allowance)	200	sq. m	20	4,000
	SUBTOTAL				4,000
CONSTRUCTION SUB-TOTAL					36,780
5.0 CONTINGENCIES					
5.1	50% construction cost				18,390
CONSTRUCTION TOTAL, excluding GST					55,170
GST					5,517
CONSTRUCTION TOTAL, including GST					60,687
CONSTRUCTION TOTAL, rounded					60,700
DISCLAIMER:					
1. This estimate of cost is provided in good faith using information available at this stage. This estimate of cost is not guaranteed. Cardno (NSW) will not accept liability in the event that actual costs exceed the estimate.					
NOTES:					
1. Estimate does not include Consultant's fees, including design or project management					
2. Estimate / rates in 2015 dollars and does not allow for inflation					

Cost EstimateOpt: **FM7 - Bardon Park**

ITEM NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	COST
1.0 GENERAL AND PRELIMINARIES					
1.1	Site establishment, security fencing, facilities & disestablishment	1	item		
1.2	Provision of sediment & erosion control	1	item		
1.3	Construction setout & survey	1	item		
1.4	Work as executed survey & documentation	1	item		
1.5	Geotechnical supervision, testing & certification	1	item		
	SUBTOTAL (Assumed as 15% of works cost, excluding property purchase)				64,300
2.0 DEMOLITION, CLEARING AND GRUBBING					
2.1	Clearing & grubbing of vegetated areas (nominal allowance)	6,500	sq. m	10	65,000
2.2	Strip topsoil & stockpile for re-use (assuming 150mm depth)	975	cu. m	10	9,750
2.3	Dispose of excess topsoil (nominal 10% allowance)	97.5	cu. m	60	5,850
	SUBTOTAL				80,600
3.0 EARTHWORKS					
3.1	Excavate basin - cut / fill & regrade to suit new design levels, including disposal / provision of cut / fill	5200	cu. m	40	208,000
	SUBTOTAL				208,000
4.0 BASIN DRAINAGE					
4.1	Fill, shape, reinforce, and vegetate overflow bund	1	item	10000	10,000
	SUBTOTAL				10,000
5.0 MINOR LANDSCAPING					
5.1	Repair disturbed areas in accordance with landscape architects requirements (nominal allowance)	6,500	sq. m	20	130,000
	SUBTOTAL				130,000
CONSTRUCTION SUB-TOTAL					492,900
6.0 CONTINGENCIES					
6.1	50% construction cost				246,450
CONSTRUCTION TOTAL, excluding GST					739,350
GST					73,935
CONSTRUCTION TOTAL, including GST					813,285
CONSTRUCTION TOTAL, rounded					813,300

DISCLAIMER:

1. This estimate of cost is provided in good faith using information available at this stage. This estimate of cost is not guaranteed.

Cardno (NSW) will not accept liability in the event that actual costs exceed the estimate.

NOTES:

1. Estimate does not include Consultant's fees, including design or project management
2. Estimate / rates in 2015 dollars and does not allow for inflation

Cost EstimateOpt: **FM11 - Coogee Oval Drainage Upgrade**

ITEM NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	COST
1.0 GENERAL AND PRELIMINARIES					
1.1	Site establishment, security fencing, facilities & disestablishment	1	item		
1.2	Provision of sediment & erosion control	1	item		
1.3	Construction setout & survey	1	item		
1.4	Work as executed survey & documentation	1	item		
1.5	Geotechnical supervision, testing & certification	1	item		
	SUBTOTAL (Assumed as 15% of works cost, excluding property purchase)				287,600
2.0 DEMOLITION, CLEARING AND GRUBBING					
2.1	Clearing & grubbing of vegetated areas (nominal allowance)	2,250	sq. m	10	22,500
2.2	Strip topsoil & stockpile for re-use (assuming 150mm depth)	337.5	cu. m	10	3,375
2.3	Dispose of excess topsoil (nominal 10% allowance)	33.75	cu. m	60	2,025
2.4	Pull up and dispose existing road surface	1500	sq.m	35	52,500
2.5	Disturb promenade walkway and section of Coogee Beach	750	sq.m	50	37,500
	SUBTOTAL				117,900
3.0 DRAINAGE					
3.1	Supply and connect 1.05m x 1.05m grated inlet pit	3	item	1500	4,500
3.2	Supply, excavate, bed, lay, joint, backfill and provide connections for 1.05m dia. Pipe	75	lin.m	800	60,000
3.3	Supply, excavate, bed, lay, joint, backfill and provide connections for 1.5m dia. Pipe	160	lin.m	1500	240,000
3.4	Supply, excavate, bed, lay, joint, backfill and provide connections for 3.3m x 2.1m culvert	150	lin.m	3500	525,000
3.5	Dewatering of earthworks during laying	1	item	100000	100,000
	SUBTOTAL				929,500
4.0 PAVEMENTS					
4.1	Reinstate disturbed road pavement, including demolition and disposal of additional material to provide good jointing	1500	sq. m	200	300,000
4.2	Reinstate disturbed promenade walkway including sandstone wall	750	sq. m	300	225,000
	SUBTOTAL				525,000
5.0 TRAFFIC CONTROL					
5.1	Control of traffic during works / staging	1	item	300000	300,000
	SUBTOTAL				300,000
6.0 MINOR LANDSCAPING					
6.1	Repair disturbed areas in accordance with landscape architects requirements (nominal allowance)	2,250	sq. m	20	45,000
	SUBTOTAL				45,000
CONSTRUCTION SUB-TOTAL					2,205,000
7.0 CONTINGENCIES					
7.1	50% construction cost				1,102,500
CONSTRUCTION TOTAL, excluding GST					3,307,500
GST					330,750
CONSTRUCTION TOTAL, including GST					3,638,250
CONSTRUCTION TOTAL, rounded					3,638,300

DISCLAIMER:

1. This estimate of cost is provided in good faith using information available at this stage. This estimate of cost is not guaranteed. Cardno (NSW) will not accept liability in the event that actual costs exceed the estimate.

NOTES:

- Estimate does not include Consultant's fees, including design or project management
- Estimate / rates in 2015 dollars and does not allow for inflation