

Appendix A

OPTION COST ESTIMATES





#	Option	Construction (£)	Contingency for non-defined Items (5%) (£)	Preliminaries (15%) (£)	Statutory Undertakers (5%) (£)	Land & Compensation (£)	Preparation & Supervision (14%) (£)	Risk / Optimism Bias (60%) (£)	Grand total (£)
1a	Langthwaite flood wall 1	£600,500	£30,000	£95,000	£36,000	£20,000	£109,000	£534,000	£1,424,500
1b	Langthwaite flood wall 2	£102,300	£5,000	£16,000	£6,000	£10,000	£20,000	£96,000	£255,300
1c	Langthwaite flood embankment	£10,200	£1,000	£2,000	£1,000	£14,000	£4,000	£19,000	£51,200
3	Booze Road regrade and surface water collection channel	£14,600	£700	£2,300	£900	£1,000	£2,700	£13,300	£35,500
5	Hill Crest culvert upgrade	£26,000	£1,000	£4,000	£2,000	-	£2,000	£21,000	£56,000
6	Hill Crest culvert clearance and trash screen install	£3,500	£200	£600	-	-	£600	£2,900	£7,800
8	Langthwaite South culvert upgrade	£42,000	£2,000	£7,000	£3,000	-	£8,000	£37,000	£99,000
10	Hillslope surface water collection channel and overflow east of Whaw	£36,600	£2,000	£6,000	£2,000	£1,000	£7,000	£33,000	£87,600
11	Whaw flood wall	£187,000	£9,000	£29,000	£11,000	-	£33,000	£161,000	£430,000
13	Floodplain embankments upstream of Whaw	£261,000	£13,000	£41,000	£16,000	£1,000	£46,000	£227,000	£605,000