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Medway Estuary and Swale Coastal Flood and Erosion Risk Strategy

Appendix F - Preferred Option Expenditure Profile

9 June 2018

Environment Agency



Issue and Revision Record

347800 Medway Estuary and Swale Strategy

Revision	Date	Originator	Checker	Approver	Description
A	07/09/2017	L Eyres	B Riley	Z Hutchison	Draft for issue and comment
B	20/10/2017	L Wiggins	B Riley	Z Hutchison	Second Issue
C	29/03/2018	L Eyres	B Riley	Z Hutchison	Third Issue
D	14/05/2018	L Eyres	B Riley	Z Hutchison	Fourth Issue
E	09/07/2018	B Riley	L Eyres	Z Hutchison	Fifth Issue

Information class: Standard

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Key Assumptions

Year 1 refers to 2019/2020 financial year.

Costs are in cash costs.

Where a management policy has been identified as No Active Intervention, there are no scheme costs associated. However it should be noted that KSL Area Team resource will be required to implement the Withdrawal of Maintenance protocol (see Technical Appendix H: Implementation Plan)

Table 1: Expenditure Profile for BA 1.2 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain until year 8 and then HTL Sustain	HTL Sustain	HTL Sustain

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 100,000	£ 100,000	£ -	£ 200,000
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 500,000	£ 278,070	£ -	£ 778,070
Construction	£ -	£ -	£ -	£ -	£ -	£ 12,840,997	£ -	£ -	£ 12,840,997
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 8,064,598	£ 226,842	£ -	£ 8,291,440
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 336,025	£ 9,452	£ -	£ 345,477
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 21,841,620	£ 614,363	£ -	£ 22,455,983
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 4,634,496	£ -	£ 4,634,496
Future Maintenance Cost	£ 6,555	£ 6,555	£ 6,555	£ 6,555	£ 6,555	£ 266,360	£ 828,493	£ 2,407,470	£ 3,535,101
Future Contingency (60%OB)	£ 3,933	£ 3,933	£ 3,933	£ 3,933	£ 3,933	£ 159,816	£ 3,277,794	£ 1,444,482	£ 4,901,758
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 10,489	£ 10,489	£ 10,489	£ 10,489	£ 10,489	£ 21,931,770	£ 9,345,695	£ 3,851,952	£ 35,181,861

Table 2: Expenditure Profile for BA 1.3 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain with Managed Realignment	Managed Realignment with NAI	Managed Realignment with NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ 2,018,994	£ -	£ -	£ 2,018,994
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 1,211,397	£ -	£ -	£ 1,211,397
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 50,475	£ -	£ -	£ 50,475
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 3,280,866	£ -	£ -	£ 3,280,866
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ 13,346	£ -	£ 13,346	£ -	£ 13,346	£ 106,770	£ 66,731	£ -	£ 213,540
Future Contingency (60%OB)	£ 8,008	£ -	£ 8,008	£ -	£ 8,008	£ 64,062	£ 40,039	£ -	£ 128,124
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 21,354	£ -	£ 21,354	£ -	£ 21,354	£ 3,401,223	£ 106,770	£ -	£ 3,572,055

Table 3: Expenditure Profile for BA 1.4 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	NAI	NAI	NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -

Table 4: Expenditure Profile for BA 2.1 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Sustain	HTL Sustain	HTL Sustain

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 100,000	£ 110,000	£ 30,000	£ 240,000
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 500,000	£ 520,000	£ 50,000	£ 1,070,000
Construction	£ -	£ -	£ -	£ -	£ -	£ 9,067,674			£ 9,067,674
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -			£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 5,800,605	£ 378,000	£ 48,000	£ 6,226,605
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 241,692	£ 15,750	£ 2,000	£ 259,442
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 15,709,971	£ 1,023,750	£ 130,000	£ 16,863,721
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 9,123,570	£ 327,867	£ 9,451,437
Future Maintenance Cost	£ 324,429	£ 5,153	£ 238	£ 5,153	£ 5,153	£ 310,751	£ 980,443	£ 1,923,752	£ 3,555,072
Future Contingency (60%OB)	£ 194,658	£ 3,092	£ 143	£ 3,092	£ 3,092	£ 186,450	£ 6,062,408	£ 1,350,971	£ 7,803,906
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 519,087	£ 8,245	£ 381	£ 8,245	£ 8,245	£ 15,965,480	£ 17,174,420	£ 3,730,590	£ 37,414,694

Table 5: Expenditure Profile for BA 2.2 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Sustain with localised NAI	HTL Sustain with localised NAI	HTL Sustain with localised NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 81,178	£ 100,000	£ -	£ 181,178
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 121,766	£ 250,425	£ -	£ 372,191
Construction	£ -	£ -	£ -	£ -	£ -	£ 2,029,439	£ -	£ -	£ 2,029,439
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 1,339,430	£ 210,255	£ -	£ 1,549,685
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 55,810	£ 8,761	£ -	£ 64,570
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 3,627,622	£ 569,441	£ -	£ 4,197,062
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 4,173,750	£ -	£ 4,173,750
Future Maintenance Cost	£ 142,203	£ -	£ -	£ -	£ -	£ 26,957	£ 225,201	£ 482,412	£ 876,772
Future Contingency (60%OB)	£ 85,322	£ -	£ -	£ -	£ -	£ 16,174	£ 2,639,370	£ 289,447	£ 3,030,313
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 227,524	£ -	£ -	£ -	£ -	£ 3,614,943	£ 7,599,001	£ 771,859	£ 12,213,327

Table 6: Expenditure Profile for BA 2.3 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Sustain	HTL Sustain	HTL Sustain

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ 100,000	£ -	£ -	£ -	£ 100,000	£ -	£ 200,000
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ 441,522	£ -	£ -	£ 249,779	£ -	£ 691,302
Construction	£ -	£ -	£ -	£ -	£ 3,679,353	£ 3,679,353	£ -	£ -	£ 7,358,707
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ 60,000	£ 264,913	£ 2,207,612	£ 2,207,612	£ 209,867	£ -	£ 4,950,005
Inflation (2.5%)	£ -	£ -	£ 2,500	£ 11,038	£ 91,984	£ 91,984	£ 8,744	£ -	£ 206,250
Total Capital Cost	£ -	£ -	£ 162,500	£ 717,474	£ 5,978,949	£ 5,978,949	£ 568,391	£ -	£ 13,406,264
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 4,162,986	£ -	£ 4,162,986
Future Maintenance Cost	£ 148,465	£ 5,183	£ 5,183	£ 5,183	£ -	£ 263,165	£ 594,658	£ 947,910	£ 1,969,746
Future Contingency (60%OB)	£ 89,079	£ 3,110	£ 3,110	£ 3,110	£ -	£ 157,899	£ 2,854,586	£ 568,746	£ 3,679,639
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 237,544	£ 8,293	£ 168,293	£ 714,729	£ 5,886,966	£ 6,308,029	£ 8,171,876	£ 1,516,656	£ 23,012,385

Table 7: Expenditure Profile for BA 3.1 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	NAI	NAI	NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -

Table 8: Expenditure Profile for BA 3.2 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Sustain and MR with localised NAI	HTL Sustain and MR with localised NAI	HTL Sustain and MR with localised NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -			£ 80,000	£ 19,240	£ -	£ 99,240
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -			£ 200,000	£ 28,860	£ -	£ 228,860
Construction	£ -	£ -	£ -	£ -	£ -	£ 560,623	£ -	£ -	£ 560,623
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 504,374	£ 28,860	£ -	£ 533,234
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 21,016	£ 1,203	£ -	£ 22,218
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 1,366,013	£ 78,163	£ -	£ 1,444,176
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 481,003	£ -	£ 481,003
Future Maintenance Cost	£ 7,686	£ 930	£ 930	£ 3,194	£ 3,194	£ 60,822	£ 121,776	£ 214,130	£ 412,661
Future Contingency (60%OB)	£ 4,612	£ 558	£ 558	£ 1,916	£ 1,916	£ 36,493	£ 361,667	£ 128,478	£ 536,199
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 12,297	£ 1,487	£ 1,487	£ 5,111	£ 5,111	£ 1,442,312	£ 1,041,407	£ 342,608	£ 2,851,821

Table 9: Expenditure Profile for BA 3.3 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain	HTL Sustain	HTL Sustain

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 100,000	£ 130,000	£ 30,000	£ 260,000
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 500,000	£ 404,170	£ 50,000	£ 954,170
Construction	£ -	£ -	£ -	£ -	£ -	£ 9,128,184	£ -	£ -	£ 9,128,184
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 5,836,910	£ 320,502	£ 48,000	£ 6,205,412
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 243,205	£ 13,354	£ 2,000	£ 258,559
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 15,808,299	£ 868,026	£ 130,000	£ 16,806,325
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 6,149,849	£ 93,389	£ 6,243,238
Future Maintenance Cost	£ 170,506	£ 5,337	£ 5,337	£ 5,337	£ 5,337	£ 341,422	£ 363,002	£ 971,489	£ 1,867,769
Future Contingency (60%OB)	£ 102,304	£ 3,202	£ 3,202	£ 3,202	£ 3,202	£ 204,853	£ 3,907,710	£ 638,927	£ 4,866,604
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 272,810	£ 8,540	£ 8,540	£ 8,540	£ 8,540	£ 16,111,370	£ 11,275,233	£ 1,831,805	£ 29,525,377

Table 10: Expenditure Profile for BA 3.4 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Sustain with localised NAI	HTL Sustain with localised NAI	HTL Sustain with localised NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 100,000	£ 130,000	£ 30,894	£ 260,894
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 286,960	£ 317,932	£ 46,341	£ 651,233
Construction	£ -	£ -	£ -	£ -	£ -	£ 4,782,671	£ -	£ -	£ 4,782,671
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 3,101,779	£ 268,759	£ 46,341	£ 3,416,879
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 129,241	£ 11,198	£ 1,931	£ 142,370
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 8,400,650	£ 727,889	£ 125,507	£ 9,254,046
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 4,763,975	£ 772,351	£ 5,536,326
Future Maintenance Cost	£ 37,134	£ 5,698	£ -	£ 5,698	£ 5,698	£ 116,816	£ 264,877	£ 516,816	£ 952,737
Future Contingency (60%OB)	£ 22,280	£ 3,419	£ -	£ 3,419	£ 3,419	£ 70,089	£ 3,017,312	£ 773,500	£ 3,893,438
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 59,414	£ 9,116	£ -	£ 9,116	£ 9,116	£ 8,458,315	£ 8,762,855	£ 2,186,244	£ 19,494,177

Table 11: Expenditure Profile for BA 3.5 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	NAI	NAI	NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -

Table 12: Expenditure Profile for BA 4.1 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Sustain and MR	HTL Sustain and MR	HTL Sustain and MR

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 83,460	£ 103,301	£ 30,000	£ 216,761
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 125,189	£ 159,952	£ 50,000	£ 335,142
Construction	£ -	£ -	£ -	£ -	£ -	£ 2,086,490	£ -	£ -	£ 2,086,490
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 1,377,083	£ 157,952	£ 48,000	£ 1,583,036
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 57,378	£ 6,581	£ 2,000	£ 65,960
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 3,729,601	£ 427,787	£ 130,000	£ 4,287,388
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 1,848,303	£ 91,623	£ 1,939,926
Future Maintenance Cost	£ 48,466	£ 4,767	£ -	£ 4,224	£ 4,224	£ 122,969	£ 288,645	£ 722,626	£ 1,195,921
Future Contingency (60%OB)	£ 29,080	£ 2,860	£ -	£ 2,535	£ 2,535	£ 73,781	£ 1,282,169	£ 488,549	£ 1,881,508
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 77,546	£ 7,627	£ -	£ 6,759	£ 6,759	£ 3,868,973	£ 3,840,322	£ 1,430,798	£ 9,238,783

Table 13: Expenditure Profile for BA 4.2a - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	NAI with freshwater habitat compensation	NAI with freshwater habitat compensation	NAI with freshwater habitat compensation

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ 1,827,238	£ -	£ -	£ -	£ 1,827,238
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ 1,096,343	£ -	£ -	£ -	£ 1,096,343
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ 45,681	£ -	£ -	£ -	£ 45,681
Total Capital Cost	£ -	£ -	£ -	£ -	£ 2,969,262	£ -	£ -	£ -	£ 2,969,262
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ -	£ -	£ -	£ -	£ 2,923,581	£ -	£ -	£ -	£ 2,923,581

Table 14: Expenditure Profile for BA 4.2b - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain until year 15 followed by NAI with freshwater compensation	NAI with freshwater habitat compensation	NAI with freshwater habitat compensation

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ 3,866,666	£ -	£ -	£ 3,866,666
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 2,319,999	£ -	£ -	£ 2,319,999
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 96,667	£ -	£ -	£ 96,667
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 6,283,332	£ -	£ -	£ 6,283,332
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ 6,270	£ -	£ 6,270	£ -	£ 6,270	£ 50,162	£ -	£ -	£ 68,973
Future Contingency (60%OB)	£ 3,762	£ -	£ 3,762	£ -	£ 3,762	£ 30,097	£ -	£ -	£ 41,384
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 10,032	£ -	£ 10,032	£ -	£ 10,032	£ 6,266,924	£ -	£ -	£ 6,297,021

Table 15: Expenditure Profile for BA 4.3 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	NAI	NAI	NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -

Table 16: Expenditure Profile for BA 4.4 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Sustain with localised NAI	HTL Sustain with localised NAI	HTL Sustain with localised NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 64,746	£ 30,000	£ -	£ 94,746
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 97,119	£ 50,000	£ -	£ 147,119
Construction	£ -	£ -	£ -	£ -	£ -	£ 404,665	£ -	£ -	£ 404,665
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 339,918	£ 48,000	£ -	£ 387,918
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 14,163	£ 2,000	£ -	£ 16,163
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 920,612	£ 130,000	£ -	£ 1,050,612
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 167,439	£ -	£ 167,439
Future Maintenance Cost	£ 1,407	£ 821	£ 293	£ 821	£ 821	£ 13,725	£ 25,865	£ 43,218	£ 86,971
Future Contingency (60%OB)	£ 844	£ 493	£ 176	£ 493	£ 493	£ 8,235	£ 115,982	£ 25,931	£ 152,646
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 2,252	£ 1,314	£ 468	£ 1,314	£ 1,314	£ 928,408	£ 437,286	£ 69,149	£ 1,441,504

Table 17: Expenditure Profile for BA 4.5 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	NAI with freshwater habitat compensation	NAI with freshwater habitat compensation	NAI with freshwater habitat compensation

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ 3,363,622	£ -	£ -	£ 3,363,622
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 2,018,173	£ -	£ -	£ 2,018,173
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 84,091	£ -	£ -	£ 84,091
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 5,465,886	£ -	£ -	£ 5,465,886
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ -	£ -	£ -	£ -	£ -	£ 5,381,796	£ -	£ -	£ 5,381,796

Table 18: Expenditure Profile for BA 4.6 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	NAI	NAI	NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -

Table 19: Expenditure Profile for BA 4.7 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain until year 15 followed by MR: Habitat Adaptation	MR: Habitat Adaptation with freshwater habitat compensation by year 30	MR: Habitat Adaptation with freshwater habitat compensation

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ 13,707,787	£ -	£ 13,707,787
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ 8,224,672	£ -	£ 8,224,672
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ -	£ 342,695	£ -	£ 342,695
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 22,275,154	£ -	£ 22,275,154
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ 29,894	£ 29,894	£ 29,894	£ 29,894	£ 29,894	£ 328,838	£ -	£ -	£ 478,310
Future Contingency (60%OB)	£ 17,937	£ 17,937	£ 17,937	£ 17,937	£ 17,937	£ 197,303	£ -	£ -	£ 286,986
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 47,831	£ 47,831	£ 47,831	£ 47,831	£ 47,831	£ 526,141	£ 21,932,459	£ -	£ 22,697,755

Table 20: Expenditure Profile for BA 5.1 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain	HTL Sustain	HTL Sustain

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 100,000	£ 100,000	£ -	£ 200,000
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 366,984	£ 166,705	£ -	£ 533,690
Construction	£ -	£ -	£ -	£ -	£ -	£ 6,116,402	£ -	£ -	£ 6,116,402
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 3,950,031	£ 160,023	£ -	£ 4,110,055
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 164,585	£ 6,668	£ -	£ 171,252
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 10,698,002	£ 433,396	£ -	£ 11,131,398
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 2,778,425	£ -	£ 2,778,425
Future Maintenance Cost	£ 20,094	£ 8,512	£ 8,512	£ 8,512	£ 8,512	£ 150,841	£ 274,507	£ 488,217	£ 967,707
Future Contingency (60%OB)	£ 12,057	£ 5,107	£ 5,107	£ 5,107	£ 5,107	£ 90,505	£ 1,831,759	£ 292,930	£ 2,247,679
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 32,151	£ 13,619	£ 13,619	£ 13,619	£ 13,619	£ 10,774,763	£ 5,311,419	£ 781,147	£ 16,953,956

Table 21: Expenditure Profile for BA 5.2 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Sustain and MR	HTL Sustain and MR	HTL Sustain and MR

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ 100,000	£ -	£ -	£ -	£ 100,000	£ -	£ 200,000
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ 191,990	£ -	£ -	£ 169,202	£ -	£ 361,193
Construction	£ -	£ -	£ -	£ -	£ 1,599,920	£ 1,599,920	£ -	£ -	£ 3,199,839
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ 60,000	£ 115,194	£ 959,952	£ 959,952	£ 161,521	£ -	£ 2,256,619
Inflation (2.5%)	£ -	£ -	£ 2,500	£ 4,800	£ 39,998	£ 39,998	£ 6,730	£ -	£ 94,026
Total Capital Cost	£ -	£ -	£ 162,500	£ 311,984	£ 2,599,869	£ 2,599,869	£ 437,454	£ -	£ 6,111,677
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 2,820,041	£ -	£ 2,820,041
Future Maintenance Cost	£ 12,971	£ 12,971	£ -	£ 11,478	£ 11,478	£ 185,906	£ 339,639	£ 574,665	£ 1,149,108
Future Contingency (60%OB)	£ 7,783	£ 7,783	£ -	£ 6,887	£ 6,887	£ 111,543	£ 1,895,808	£ 344,799	£ 2,381,490
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 20,754	£ 20,754	£ 160,000	£ 325,549	£ 2,578,236	£ 2,857,321	£ 5,486,212	£ 919,464	£ 12,368,290

Table 22: Expenditure Profile for BA 6.1 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain	HTL Maintain	HTL Maintain but defences raised with SLR to ensure the same SOP provided

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 100,000	£ 100,000	£ -	£ 200,000
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 500,000	£ 240,515	£ -	£ 740,515
Construction	£ -	£ -	£ -	£ -	£ -	£ 12,064,347	£ -	£ -	£ 12,064,347
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 7,598,608	£ 204,309	£ -	£ 7,802,918
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 316,609	£ 8,513	£ -	£ 325,122
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 20,579,564	£ 553,337	£ -	£ 21,132,902
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 4,008,588	£ -	£ 4,008,588
Future Maintenance Cost	£ 29,352	£ 25,242	£ 25,242	£ 25,242	£ 25,242	£ 384,974	£ 747,793	£ 1,257,089	£ 2,520,176
Future Contingency (60%OB)	£ 17,611	£ 15,145	£ 15,145	£ 15,145	£ 15,145	£ 230,984	£ 2,853,829	£ 754,254	£ 3,917,258
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 46,963	£ 40,387	£ 40,387	£ 40,387	£ 40,387	£ 20,878,914	£ 8,155,034	£ 2,011,343	£ 31,253,802

Table 23: Expenditure Profile for BA 6.2 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain	HTL Maintain and MR	HTL Maintain and MR

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 50,000	£ -	£ -	£ 50,000
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 100,000	£ -	£ -	£ 100,000
Construction	£ -	£ -	£ -	£ -	£ -	£ 622,290	£ -	£ -	£ 622,290
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 463,374	£ -	£ -	£ 463,374
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 19,307	£ -	£ -	£ 19,307
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 1,254,971	£ -	£ -	£ 1,254,971
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ 2,866	£ 958	£ 958	£ 958	£ 958	£ 16,279	£ 34,466	£ 54,577	£ 112,020
Future Contingency (60%OB)	£ 1,720	£ 575	£ 575	£ 575	£ 575	£ 9,767	£ 20,679	£ 32,746	£ 67,212
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 4,586	£ 1,533	£ 1,533	£ 1,533	£ 1,533	£ 1,261,710	£ 55,145	£ 87,323	£ 1,414,895

Table 24: Expenditure Profile for BA 7.1 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain	HTL Maintain until year 30, then NAI with freshwater compensation	NAI with freshwater habitat compensation

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ 4,379,128	£ -	£ 4,379,128
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ 2,627,477	£ -	£ 2,627,477
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ -	£ 109,478	£ -	£ 109,478
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 7,116,083	£ -	£ 7,116,083
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ 4,054	£ -	£ 4,054	£ -	£ 4,054	£ 32,429	£ 28,376	£ -	£ 72,966
Future Contingency (60%OB)	£ 2,432	£ -	£ 2,432	£ -	£ 2,432	£ 19,458	£ 17,025	£ -	£ 43,780
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 6,486	£ -	£ 6,486	£ -	£ 6,486	£ 51,887	£ 7,052,006	£ -	£ 7,123,351

Table 25: Expenditure Profile for BA 7.2a - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Sustain	HTL Sustain	HTL Sustain

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 100,000	£ 85,745	£ -	£ 185,745
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 163,186	£ 128,617	£ -	£ 291,803
Construction	£ -	£ -	£ -	£ -	£ -	£ 2,719,763	£ -	£ -	£ 2,719,763
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 1,789,769	£ 128,617	£ -	£ 1,918,386
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 74,574	£ 5,359	£ -	£ 79,933
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 4,847,291	£ 348,338	£ -	£ 5,195,629
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 2,143,618	£ -	£ 2,143,618
Future Maintenance Cost	£ 39,037	£ 2,269	£ -	£ 2,269	£ 2,269	£ 57,281	£ 188,517	£ 365,410	£ 657,053
Future Contingency (60%OB)	£ 23,422	£ 1,362	£ -	£ 1,362	£ 1,362	£ 34,368	£ 1,399,281	£ 219,246	£ 1,680,403
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 62,460	£ 3,631	£ -	£ 3,631	£ 3,631	£ 4,864,367	£ 4,074,395	£ 584,656	£ 9,596,770

Table 26: Expenditure Profile for BA 7.2b - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain	HTL Sustain	HTL Sustain

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 41,236	£ 30,000	£ -	£ 71,236
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 61,854	£ 50,000	£ -	£ 111,854
Construction	£ -	£ -	£ -	£ -	£ -	£ 1,030,899	£ -	£ -	£ 1,030,899
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 680,393	£ 48,000	£ -	£ 728,393
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 28,350	£ 2,000	£ -	£ 30,350
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 1,842,732	£ 130,000	£ -	£ 1,972,732
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 390,275	£ -	£ 390,275
Future Maintenance Cost	£ 4,497	£ 1,700	£ 1,700	£ 1,700	£ 1,700	£ 31,100	£ 57,008	£ 102,855	£ 202,261
Future Contingency (60%OB)	£ 2,698	£ 1,020	£ 1,020	£ 1,020	£ 1,020	£ 18,660	£ 268,370	£ 61,713	£ 355,522
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 7,196	£ 2,721	£ 2,721	£ 2,721	£ 2,721	£ 1,864,142	£ 843,652	£ 164,567	£ 2,890,441

Table 27: Expenditure Profile for BA 8.2 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain	HTL Maintain	HTL Maintain but defences raised with SLR to ensure the same SOP provided

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 100,000	£ 100,000	£ -	£ 200,000
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 310,018	£ 188,267	£ -	£ 498,286
Construction	£ -	£ -	£ -	£ -	£ -	£ 5,166,975	£ -	£ -	£ 5,166,975
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 3,346,196	£ 172,960	£ -	£ 3,519,156
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 139,425	£ 7,207	£ -	£ 146,632
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 9,062,614	£ 468,434	£ -	£ 9,531,049
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 3,137,789	£ -	£ 3,137,789
Future Maintenance Cost	£ 16,070	£ 8,620	£ 8,620	£ 8,620	£ 8,620	£ 136,752	£ 273,546	£ 457,279	£ 918,128
Future Contingency (60%OB)	£ 9,642	£ 5,172	£ 5,172	£ 5,172	£ 5,172	£ 82,051	£ 2,046,801	£ 274,367	£ 2,433,550
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 25,711	£ 13,792	£ 13,792	£ 13,792	£ 13,792	£ 9,141,993	£ 5,919,363	£ 731,646	£ 15,873,884

Table 28: Expenditure Profile for BA 8.3 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain with Managed Realignment	HTL Maintain with Managed Realignment	HTL Maintain with Managed Realignment

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 100,000	£ 100,000	£ -	£ 200,000
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 500,000	£ 170,326	£ -	£ 670,326
Construction	£ -	£ -	£ -	£ -	£ -	£ 13,362,512	£ -	£ -	£ 13,362,512
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 8,377,507	£ 162,195	£ -	£ 8,539,703
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 349,063	£ 6,758	£ -	£ 355,821
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 22,689,082	£ 439,279	£ -	£ 23,128,361
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ 2,838,763	£ -	£ 2,838,763
Future Maintenance Cost	£ 29,894	£ 29,894	£ 29,894	£ 29,894	£ 4,497	£ 478,310	£ 871,434	£ 1,464,824	£ 2,938,643
Future Contingency (60%OB)	£ 17,937	£ 17,937	£ 17,937	£ 17,937	£ 2,698	£ 286,986	£ 2,226,118	£ 878,895	£ 3,466,444
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 47,831	£ 47,831	£ 47,831	£ 47,831	£ 7,195	£ 23,105,315	£ 6,368,836	£ 2,343,719	£ 32,016,390

Table 29: Expenditure Profile for BA 8.4 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	MR	MR	MR

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ 4,147,597	£ -	£ -	£ 4,147,597
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 2,488,558	£ -	£ -	£ 2,488,558
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 103,690	£ -	£ -	£ 103,690
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 6,739,844	£ -	£ -	£ 6,739,844
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ 6,667	£ 6,667	£ 6,667	£ 6,667	£ 6,667	£ 15,555	£ 31,111	£ 50,814	£ 130,817
Future Contingency (60%OB)	£ 4,000	£ 4,000	£ 4,000	£ 4,000	£ 4,000	£ 9,333	£ 18,666	£ 30,488	£ 78,490
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 10,668	£ 10,668	£ 10,668	£ 10,668	£ 10,668	£ 6,661,043	£ 49,777	£ 81,302	£ 6,845,461

Table 30: Expenditure Profile for BA 8.5 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	NAI	NAI	NAI

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Construction	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -

Table 31: Expenditure Profile for BA 9.1 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain	HTL Maintain	HTL Maintain

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ 100,000	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ 100,000
EA and Consultant Detailed Design and Surveys		£ 500,000	£ -	£ -	£ -	£ -	£ -	£ -	£ 500,000
Construction	£ -	£ -	£ 2,527,997	£ -	£ -	£ -	£ -	£ -	£ 2,527,997
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ 60,000	£ 300,000	£ 1,516,798	£ -	£ -	£ -	£ -	£ -	£ 1,876,798
Inflation (2.5%)	£ 2,500	£ 12,500	£ 63,200	£ -	£ -	£ -	£ -	£ -	£ 78,200
Total Capital Cost	£ 162,500	£ 812,500	£ 4,107,996	£ -	£ -	£ -	£ -	£ -	£ 5,082,996
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ 103,864	£ 155,796	£ 207,728	£ 467,389
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 62,319	£ 93,478	£ 124,637	£ 280,433
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 160,000	£ 800,000	£ 4,044,796	£ -	£ -	£ 166,183	£ 249,274	£ 332,365	£ 5,752,618

Table 32: Expenditure Profile for BA 9.2 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain, and NAI on the cliffs	HTL Maintain, and NAI on the cliffs	HTL Maintain, and NAI on the cliffs

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 97,943	£ -	£ 30,000	£ 127,943
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 146,914	£ -	£ 50,000	£ 196,914
Construction	£ -	£ -	£ -	£ -	£ -	£ 2,448,571	£ -	£ -	£ 2,448,571
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 1,616,057	£ -	£ 48,000	£ 1,664,057
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 67,336	£ -	£ 2,000	£ 69,336
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 4,376,820	£ -	£ 130,000	£ 4,506,820
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ 145,240	£ 145,240
Future Maintenance Cost	£ 16,407	£ 3,103	£ 3,103	£ 3,103	£ 3,103	£ 59,850	£ 136,639	£ 208,901	£ 434,209
Future Contingency (60%OB)	£ 9,844	£ 1,862	£ 1,862	£ 1,862	£ 1,862	£ 35,910	£ 81,984	£ 212,485	£ 347,669
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 26,252	£ 4,965	£ 4,965	£ 4,965	£ 4,965	£ 4,405,244	£ 218,623	£ 694,625	£ 5,364,603

Table 33: Expenditure Profile for BA 10.1 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	NAI, with localised property adaptation	NAI, with localised property adaptation	NAI, with localised property adaptation

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ 100,000	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ 100,000
EA and Consultant Detailed Design and Surveys	£ -	£ 500,000	£ -	£ -	£ -	£ -	£ -	£ -	£ 500,000
Construction	£ -	£ -	£ 439,951	£ -	£ -	£ -	£ -	£ -	£ 439,951
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ 60,000	£ 300,000	£ 263,970	£ -	£ -	£ -	£ -	£ -	£ 623,970
Inflation (2.5%)	£ 2,500	£ 12,500	£ 10,999	£ -	£ -	£ -	£ -	£ -	£ 25,999
Total Capital Cost	£ 162,500	£ 812,500	£ 714,920	£ -	£ -	£ -	£ -	£ -	£ 1,689,920
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ 1,657,567	£ 4,204,886	£ 3,289,679	£ 9,152,133
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 994,540	£ 2,522,932	£ 1,973,808	£ 5,491,280
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 160,000	£ 800,000	£ 703,921	£ -	£ -	£ 2,652,108	£ 6,727,818	£ 5,263,487	£ 16,307,334

Table 34: Expenditure Profile for BA 11.1 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Maintain	HTL Maintain	HTL Maintain

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ -	£ -	£ -	£ -	£ -	£ 34,222	£ -	£ -	£ 34,222
EA and Consultant Detailed Design and Surveys	£ -	£ -	£ -	£ -	£ -	£ 51,334	£ -	£ -	£ 51,334
Construction	£ -	£ -	£ -	£ -	£ -	£ 855,559	£ -	£ -	£ 855,559
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 564,669	£ -	£ -	£ 564,669
Inflation (2.5%)	£ -	£ -	£ -	£ -	£ -	£ 23,528	£ -	£ -	£ 23,528
Total Capital Cost	£ -	£ -	£ -	£ -	£ -	£ 1,529,311	£ -	£ -	£ 1,529,311
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ 18,320	£ -	£ -	£ -	£ -	£ 19,064	£ 54,959	£ 90,854	£ 183,197
Future Contingency (60%OB)	£ 10,992	£ -	£ -	£ -	£ -	£ 11,438	£ 32,975	£ 54,513	£ 109,918
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 29,312	£ -	£ -	£ -	£ -	£ 1,536,285	£ 87,935	£ 145,367	£ 1,798,898

Table 35: Expenditure Profile for BA 11.2 - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	HTL Sustain	HTL Sustain	HTL Sustain

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ 100,000	£ -	£ -	£ -	£ -	£ 53,432	£ 100,000	£ -	£ 253,432
EA and Consultant Detailed Design and Surveys	£ -	£ 500,000	£ -	£ -	£ -	£ 80,148	£ 324,416	£ -	£ 904,564
Construction	£ -	£ -	£ 4,333,326	£ 4,333,326	£ -	£ -	£ -	£ -	£ 8,666,653
Freshwater Compensation	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Contingency (60%OB)	£ 60,000	£ 300,000	£ 2,599,996	£ 2,599,996	£ -	£ 80,148	£ 254,650	£ -	£ 5,894,790
Inflation (2.5%)	£ 2,500	£ 12,500	£ 108,333	£ 108,333	£ -	£ 3,340	£ 10,610	£ -	£ 245,616
Total Capital Cost	£ 162,500	£ 812,500	£ 7,041,656	£ 7,041,656	£ -	£ 217,068	£ 689,676	£ -	£ 15,965,055
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ 1,335,804	£ 5,406,932	£ -	£ 6,742,736
Future Maintenance Cost	£ 162,484	£ 4,919	£ 357	£ 4,966	£ 4,966	£ 201,980	£ 553,381	£ 936,705	£ 1,869,758
Future Contingency (60%OB)	£ 97,490	£ 2,952	£ 214	£ 2,980	£ 2,980	£ 922,671	£ 3,576,188	£ 562,023	£ 5,167,497
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ 419,974	£ 807,871	£ 6,933,893	£ 6,941,269	£ 7,946	£ 2,674,183	£ 10,215,566	£ 1,498,728	£ 29,499,430

Table 35: Expenditure Profile for MR Sites - Cash Cost (£)

Option	Year 0-20	Year 20-50	Year 50-100
	MR	MR	MR

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
Abbots court - BA1.3	£ -	£ -	£ -	£ -	£ -	£ 3,592,572	£ -	£ -	£ 3,592,572
Halling - BA3.2	£ -	£ -	£ 100,000	£ 156,368	£ 2,606,139	£ -	£ -	£ -	£ 2,862,507
Riverside - BA4.1	£ -	£ -	£ 60,000	£ 150,000	£ 697,808	£ -	£ -	£ -	£ 907,808
Tailness and Chetney - BA4.7	£ -	£ -	£ 100,000	£ 150,000	£ 1,020,793	£ 6,375,307	£ -	£ -	£ 7,646,100
Kemsley - BA5.2	£ -	£ -	£ 60,000	£ 150,000	£ 1,328,141	£ -	£ -	£ -	£ 1,538,141
Cleve Hill - BA6.2	£ -	£ -	£ -	£ -	£ -	£ -	£ 14,374,486	£ -	£ 14,374,486
Spitend Marsh - BA8.3	£ -	£ -	£ 80,000	£ 150,000	£ 1,821,511	£ -	£ -	£ -	£ 2,051,511
Elmley - BA8.4	£ -	£ -	£ 60,000	£ 150,000	£ 1,463,387	£ -	£ -	£ -	£ 1,673,387
Contingency (60%OB)	£ -	£ -	£ 276,000	£ 543,821	£ 5,362,667	£ 5,980,728	£ 8,624,692	£ -	£ 20,787,908
Inflation (2.5%)	£ -	£ -	£ 11,500	£ 22,659	£ 223,444	£ 249,197	£ 359,362	£ -	£ 866,163
Total Capital Cost	£ -	£ -	£ 747,500	£ 1,472,849	£ 14,523,890	£ 16,197,804	£ 23,358,540	£ -	£ 55,434,420
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -	£ -
Future Maintenance Cost	£ -	£ -	£ -	£ -	£ -	£ 205,398	£ 797,121	£ 813,690	£ 1,816,209
Future Contingency (60%OB)	£ -	£ -	£ -	£ -	£ -	£ 123,239	£ 478,273	£ 488,214	£ 1,089,725
Whole Life Cash Cost (inc. maintenance, but without inflation)	£ -	£ -	£ 747,500	£ 1,472,849	£ 14,523,890	£ 16,526,440	£ 24,633,934	£ 1,301,904	£ 58,340,354

Table 36: Expenditure Profile for Entire Strategy Area - Cash Cost (£)

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6-20	Year 21-50	Year 51-100	Total
EA and Consultant Appraisal and Studies	£ 300,000	£ -	£ 200,000	£ -	£ -	£ 1,486,217	£ 1,538,286	£ 150,894	£ 3,675,397
EA and Consultant Detailed Design and Surveys	£ -	£ 1,500,000	£ -	£ 633,513	£ -	£ 4,611,474	£ 3,697,237	£ 246,341	£ 10,688,565
Construction	£ -	£ -	£ 7,301,275	£ 4,333,326	£ 5,279,273	£ 90,567,332	£ -	£ -	£ 107,481,206
Freshwater Compensation	£ -	£ -	£ -	£ -	£ 1,827,238	£ 13,396,879	£ 18,086,915	£ -	£ 33,311,033
Managed Realignment Site	£ -	£ -	£ 460,000	£ 906,368	£ 8,937,779	£ 9,967,879	£ 14,374,486	£ -	£ 34,646,513
Contingency (60%OB)	£ 180,000	£ 900,000	£ 4,776,765	£ 3,523,925	£ 9,626,574	£ 72,017,868	£ 22,618,155	£ 238,341	£ 113,881,628
Inflation (2.5%)	£ 7,500	£ 37,500	£ 199,032	£ 146,830	£ 401,107	£ 3,000,745	£ 942,423	£ 9,931	£ 4,745,068
Total Capital Cost	£ 487,500	£ 2,437,500	£ 12,937,071	£ 9,543,962	£ 26,071,972	£ 195,048,394	£ 61,257,503	£ 645,507	£ 308,429,409
Future Construction Cost	£ -	£ -	£ -	£ -	£ -	£ 2,993,372	£ 63,234,687	£ 4,720,149	£ 70,948,207
Future Maintenance Cost	£ 1,299,077	£ 169,196	£ 157,155	£ 169,471	£ 162,561	£ 4,088,339	£ 8,303,984	£ 15,303,432	£ 29,653,214
Future Contingency (60%OB)	£ 779,446	£ 101,517	£ 94,293	£ 101,683	£ 97,537	£ 4,249,026	£ 42,923,202	£ 12,014,149	£ 60,360,853
Whole Life Cash Cost incl. Inflation	£ 2,566,023	£ 2,708,213	£ 13,188,519	£ 9,815,116	£ 26,332,070	£ 206,379,130	£ 175,719,376	£ 32,683,237	£ 469,391,684