

Project Summary Sheet

Client/Authority

Environment Agency (Anglian Region)

Project name

Bin Brook - Social Class Weighting Applied

Project reference

WNBINP

Base date for estimates (year 0)

Dec-2006

Scaling factor (e.g. £m, £k, £)

£

(used for all costs, losses and benefits)

Principle land use band

B

(A to E)

Discount rates

3.5%

3.0%

2.5%

Optimism bias adjustment factor

0.0%

Prepared (date)

June-07

Printed

29-Aug-07

Prepared by

G Boakes

Checked by

G Boakes

Checked date

28-Aug-07

Costs and benefits of options

	Costs and benefits £						
	Option 1	Option 2	Option 5a	Option 5	Option 6	Option 3	Option 4
PV costs PVc	-	385,256	2,483,237	2,498,173	2,548,583	2,793,795	2,817,950
Risk		-	345,000	345,000	345,000	345,000	345,000
Total PV Costs for appraisal PVc		385,256	2,828,237	2,843,173	2,893,583	3,138,795	3,162,950
PV damage PVd	13,843,147	3,080,739	1,132,353	452,799	227,710	146,766	133,841
PV damage avoided		10,762,408	12,710,794	13,390,348	13,615,437	13,696,381	13,709,306
PV assets Pva	-	-	-	-	-	-	-
Health Related Benefit		-	80,000	97,000	153,000	97,000	153,000
Total PV benefits PVb		10,762,408	12,790,794	13,487,348	13,768,437	13,793,381	13,862,306
Net Present Value NPV		10,377,152	9,962,557	10,644,175	10,874,854	10,654,586	10,699,356
Average benefit/cost ratio		27.94	4.52	4.74	4.76	4.39	4.38
Incremental benefit/cost ratio			0.83	46.64	5.58	0.10	2.85

Highest b/c

Brief description of options:

Option 1	Do Nothing
Option 2	Maintenance
Option 3	Manual Storage Area 1 in 75
Option 4	Manual Storage Area 1 in 100
Option 5	Automatic Storage Area 1 in 75
Option 5a	Automatic Storage Area 1 in 50
Option 6	Automatic Storage Area 1 in 100

Notes:

- Benefits will normally be expressed either in terms of damage avoided or asset values protected. Care is needed to avoid double counting
- PV damage avoided is calculated as PV damage (No Project) - PV damage (Option)
 PV asset protection benefits are calculated as PVa (Option) - PVa (No Project)
 PV benefits calculated as PV damage avoided + PV asset protection benefits
- Incremental benefit/cost ratio is calculated as:

$$\frac{PVb(\text{current option}) - PVb(\text{previous option})}{PVc(\text{current option}) - PVc(\text{previous option})}$$