Estimating monetary values for improvements to the Scottish water environment

This paper is split into two main sections. The first section describes how values developed for improvements to the water environment in England and Wales have been applied to Scotland. The second section describes how these values have been adapted for application in the SEPA Disproportionate Cost Assessment (DCA) method.

1. Transfer of England and Wales environment improvement values to Scotland

The Environment Agency has developed monetary values for the benefits delivered by meeting WFD objectives in the water environment. The values are heavily dependent on the resident population density in a water body locality, this is because people assign higher values to the water environment where they live. However, it does not mean that people don't have any value for water bodies located away from where they live and a proportion of the value for all water bodies also comes from the national population. More information is available about how the EA derived their values and their relevance to Scotland in this paper. The latest EA river values rivers, specific to English and Welsh catchments, and for lakes, coastal and transition waters, specific to English and Welsh areas, are taken from the paper <u>Updating the National Water Environment Benefit Survey values: summary of the</u> peer review - GOV.UK (www.gov.uk).

1.1. For rivers

Estimate population density in Scottish water body catchments -

- a. Using ONS data identify population densities for all Scottish local authority areas. This information is in the 'Value transfer' spreadsheet ('Scotland' sheet). Data originated from: <u>http://www.ons.gov.uk/ons/publications/re-reference-tables.html?edition=tcm%3A77-319259</u> Population estimates for UK, England and Wales, Scotland and Northern Ireland, Mid 2011.
- Assign all Scottish local authority areas to a population rank as shown in Table 1:

Table 1: Population density ranks

| | Low | Medium | High | Very high |
|---------------------------------|-------|------------|----------|-----------|
| Population people/ha | <0.35 | 0.35 to <2 | 2 to <10 | 10 to <35 |
| Number of local authority areas | 8 | 9 | 11 | 4 |

The number of local authorities in each rank is approximately equal. Though the 'very high' category only contains 4 local authorities – these are Aberdeen City, City of Edinburgh, Dundee City and Glasgow City – which have particularly high population densities of more than twice that in the highest 'high' population density local authority (see 'Scotland' worksheet in <u>value transfer workbook</u>).

- c. Assign each Scottish water body to a local authority area and to a catchment (see 'Scot catch popn' worksheet in <u>value transfer workbook</u>).
- d. For each water body catchment average the local authority population densities for all water bodies in the catchment to estimate the population density in the catchment (see 'Scot catch popn' worksheet in <u>value transfer</u> <u>workbook</u>).
- e. Assign each water body catchment to a population density category (using the ranks in Table 1) (see 'Scot catch popn' worksheet in <u>value transfer</u> <u>workbook</u>).
- f. Figure 1 illustrates the population density categories for all Scottish water body catchments.

Select England and Wales catchments that have similar populations to each Scottish water body catchment category. Assume that the monetary values for the England and Wales water body catchments directly reflect the population density in those catchments, so high value catchments represent high population density areas (See E&W catch values sheet in <u>value transfer workbook</u>). The central monetary benefit value for each England and Wales catchment was used to assign a population density category to the catchments, the following assumptions were made:

- g. The England Wales catchments with the lowest benefit values are assumed to have population densities most similar to the lowest population density areas in Scotland.
- h. The England and Wales catchments with the highest benefit values, and therefore population densities, do not relate to any areas in Scotland because even the highest population density areas in Scotland do not have population densities as high as the most densely populated areas in England and Wales.
- i. The areas in Scotland with very high population density have relatively higher benefit values than the low, medium and high population density areas because their population density is significantly greater (as described above).
- j. On this basis England and Wales catchments were selected to represent each of the different population density categories shown in Table 1. Table 2 shows the England and Wales river catchments that were selected to be representative, and the monetary values (in £/km/year) for status improvements to their rivers (also shown in 'Rep English catchments' spreadsheet of <u>value transfer workbook</u>) to be representative of the Scottish population density categories.

 Table 2: Values for representative English river catchments (000£/km/year)

 (from¹)

| England a catchment | nd Wales river s | Ecological status improvement | | | | | | | | |
|---------------------------|--|-------------------------------|-------------|------------------|----------|-------------|------------------|------|-------------|------|
| Value com | Bad to poor | | | Poor to moderate | | | Moderate to good | | | |
| Populati on density | Comparison England and Wales catchments | Lo w | Centr al | High | Lo w | Centr al | High | Low | Cent ral | High |
| Low | Tweed | 9.5 | 11.6 | 13.6 | 10. 5 | 12.8 | 15.1 | 11.8 | 14.4 | 17.0 |
| Mid | South-West Lakes | 10. 5 | 12.8 | 15.0 | 11. 7 | 14.2 | 16.9 | 13.3 | 16.2 | 19.2 |
| High | Dorset | 13. 2 | 16.1 | 19.1 | 15. 1 | 18.4 | 21.7 | 17.4 | 21.2 | 25.0 |
| Very | Don and Rother | 19. | 23.4 | 27.5 | 22. | 27.1 | 32.1 | 26.0 | 31.7 | 37.5 |

| high | 2 | | 2 | | | |
|--------|---|--|---|--|--|--|
| riigri | 2 | | 3 | | | |
| | | | | | | |

Figure 1: Population density of Scottish water body catchments



1.2. For lakes, coastal and transitional water bodies

Assign Scottish water bodies to catchments and population densities as for rivers (Estimate population density in Scottish water body catchments) of rivers method above.

Select England and Wales areas that have similar populations to each Scottish water body catchment. As for rivers, assume that the monetary values for the England and Wales areas directly reflect the population density in those areas, so high value areas represent high population density areas. Rank the lake, coastal and transitional water body values for English and Welsh areas from low to high. As for rivers, assume:

- The England and Wales areas with the lowest benefit values have population densities most similar to the lowest population density areas in Scotland.
- The England and Wales areas with the highest benefit values and therefore population densities do not relate to any areas in Scotland because even the highest population density areas in Scotland do not have population densities as high as the most densely populated areas in England and Wales.
- The very high population density areas in Scotland have relatively higher benefit values than the low, medium and high population density areas because their population density is significantly greater (as described in Estimate population density in Scottish water body catchments above).

Select England and Wales areas that represent the low, medium, high and very high Scottish population densities, these are shown in Table 3 below (see Rep English areas spreadsheet in <u>value transfer workbook</u>).

Table 3: Showing values for improvements in status for English and Welsh lakes, coastal and transitional water bodies in representative England and Wales catchments (values in £000s/km2/year)

| England b | and Wales water ody areas | | Ecological status improvements | | | | | | | | |
|---------------------------|--|-----|--------------------------------|------|------|-------------|---------------------|---------|-------------|----------|--|
| Value comparators | | Ba | d to poo | or | Poor | to mod | Moderate to good | | | | |
| Populati on density | Comparison England and Wales areas | Low | Cent ral | High | Low | Cent ral | High | Lo w | Cent ral | Hi gh | |
| Low | Solway Tweed | 3.6 | 4.5 | 5.3 | 4.1 | 5.0 | 6.0 | 4.6 | 5.6 | 6. 7 | |
| Mid | South West | 4.6 | 5.6 | 6.6 | 5.2 | 6.3 | 7.5 | 6.0 | 7.3 | 8. 6 | |
| High | Severn | 5.2 | 6.4 | 7.5 | 6.0 | 7.3 | 8.6 | 6.9 | 8.4 | 9. 9 | |
| Very high | Humber | 6.3 | 7.7 | 9.0 | 7.3 | 8.9 | 10.5 | 8.5 | 10.4 | 12 .2 | |

2. Assign a value category to all Scottish lochs, coastal and transitional water bodies based on the population density in their water body catchment (see 'Scot wb values' in <u>value transfer workbook</u>).

Note: Value adjustment for Inverness Coastal catchment

The value categories that have been assigned to Scottish water body catchments are based on population densities across a whole local authority region. This is a reasonable approach to take in most cases because it allows broad estimates of population density to be made. However, for some water bodies that occur in relatively densely populated areas but in sparsely populated local authority areas the values may not be appropriate. A sense check on the data shows that this is particularly the case for the 'Inverness coastal' water body catchment which occurs in Inverness city but in Highland local authority area.

As a result, it has been decided to increase the population and value ranking for water bodies in the Inverness Coastal catchment to 'medium' in spite of the local authority population density being low.

3. Adaptation of water environment improvement values in the SEPA DCA method

3.1. Use of minimum values

The SEPA DCA method uses the monetary benefit values as a screen to quickly decide if improvements to the water environment might be disproportionately expense. If this is potentially the case, then the method requires a more detailed assessment of the benefits that will arise as a result of the improvements proposed. Because they are simply used for screening purposes, it is appropriate that minimum monetary values for improvements to the water environment are used (these are shown in the shaded columns of Tables 2 and 3).

4. Working out present values for benefits

The SEPA DCA method requires use of present values for benefits associated with water body improvements so that they can be compared with present values for costs. Calculating a present value is particularly important for the environmental benefits which arise on an annual basis after a water body improvement has taken place. Determining present values requires discounting to take account of the fact that a benefit received in the future has a lower value than one received today.

Discounted benefit values for different improvements in different population density catchments to rivers and lochs, coastal and transitional water bodies are shown in Table 4 and 5 respectively. The benefit values have been discounted over a 40 year time period using the Government recommended social discount rate of 3.5% for years 0 to 30 and 3% for years 30 to 40 and rounded to the nearest £50,000.

Table 4: Present values for different status improvements to rivers in areas of different population density (000£/km, rounded to nearest £50k)

| Population density | Ecological status change | | | | | | |
|--------------------|--------------------------|-----|------------------|--|--|--|--|
| in catchment | Bad to poor | | Moderate to good | | | | |
| Low | 250 | 250 | 300 | | | | |
| Medium | 250 | 300 | 350 | | | | |
| High | 350 | 350 | 400 | | | | |
| Very high | 450 | 500 | 550 | | | | |

Table 5: Present values for different status improvements to lochs, coastal or transitional water bodies in areas of different population density (000£/km2, rounded to nearest £50k)

| Population density | Ecological status change | | | | | | |
|--------------------|--------------------------|------------------|------------------|--|--|--|--|
| in catchment | Bad to poor | Poor to moderate | Moderate to good | | | | |
| Low | 50 | 100 | 100 | | | | |
| Medium | 100 | 100 | 100 | | | | |
| High | 100 | 100 | 150 | | | | |

| Very high | 150 | 150 | 150 |
|-----------|-----|-----|-----|
| | | | |

To work out a total value for benefits that a project will deliver you need to multiply the values in the tables above by the length (for rivers) or area (for lochs, coastal and transitional water bodies) of the water body that is improved.

Table 6: Water environment benefit values for Scottish catchments (expressedas 40-year present values)

| Catchment | Population density estimate (people/ha) | Population density category | Rivers (000£/km) | | | Lochs and TraCs (000£/k | | (000£/km) |
|------------------------|--|-----------------------------------|---------------------|---------------------|---------------------|-------------------------|------------------|---------------------|
| | | | Bad to poor | Poor to moderate | Moderate to good | Bad to poor | Poor to moderate | Moderate to good |
| Aberdeen South Coastal | 12.0 | very high | 450 | 500 | 550 | 150 | 150 | 150 |
| Abhainn Ghriomarstaidh | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Allan Water | 0.6 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Appin Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Ardgour Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Ardnamurchan Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Arran Coastal | 1.6 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Banff Coastal | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |

| Beauly Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
|-----------------------------------|-----|--------|-----|-----|-----|-----|-----|-----|
| Benbecula Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Berriedale Water | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Bervie Water | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Berwick Coastal | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Black Cart Water | 6.6 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| Brora Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Buchan Coastal | 1.1 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Cowal / Clyde Sealochs Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Cromarty Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Dighty Water | 0.5 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Dornoch Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Dumfries Coastal | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Dunbeath Water | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Dundee Coastal | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |

| Earn Coastal | 0.3 | low | 250 | 250 | 300 | 50 | 100 | 100 |
|----------------------------------|------|-----------|-----|-----|-----|-----|-----|-----|
| East Lothian Coastal | 1.5 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Edinburgh Coastal | 12.6 | very high | 450 | 500 | 550 | 150 | 150 | 150 |
| Etive Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Eye Water | 0.5 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Forss Water | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Forth Estuary (South) Coastal | 3.5 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| Galloway Coastal | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Glasgow Coastal | 17.4 | very high | 450 | 500 | 550 | 150 | 150 | 150 |
| Gretna Coastal | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Gruinard River | 0.1 | Low | 250 | 250 | 300 | 50 | 100 | 100 |
| Halladale River | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Hoy Coastal | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Inverclyde Coastal | 3.9 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| Inverness Coastal* | 0.1 | medium | 250 | 300 | 350 | 100 | 100 | 100 |

| Island of Bute Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
|---------------------------------|-----|--------|-----|-----|-----|-----|-----|-----|
| Island of Mull Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Islay Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Isle of Skye Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Jura Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Kincardine and Angus Coastal | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Kintyre Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Knapdale Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Lewis and Harris Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Loch Fyne Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Loch of Stenness | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Lochar Water | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Lunan Water | 0.5 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Minch Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |

| Moray Coastal | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
|------------------------|------|--------|------|------|------|------|------|------|
| Muckle Burn | 0.25 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| no data | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| North Ayrshire Coastal | 1.3 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| North Fife Coastal | 2.8 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| North Uist Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Orkney Coastal | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Perth Coastal | 0.3 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Add | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Aline | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Almond | 6.1 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| River Alness | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Annan | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Avon | 5.0 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| River Awe | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |

| River Ayr | 1.0 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
|-------------------------------|-----|--------|-----|-----|-----|-----|-----|-----|
| River Beauly | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Bladnoch | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Borgie | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Broom | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Brora | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Carron (Falkirk) | 3.2 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| River Carron (Sutherland) | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Carron (Wester Ross) | 0.1 | low | 250 | 250 | 275 | 50 | 100 | 100 |
| River Cassley | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Clyde | 4.3 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| River Conon | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Cree | 0.3 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Dee (Grampian) | 1.6 | medium | 250 | 300 | 350 | 100 | 100 | 100 |

| River Dee (Solway) | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
|---------------------|-----|--------|-----|-----|-----|-----|-----|-----|
| River Deveron | 0.4 | Medium | 250 | 300 | 350 | 100 | 100 | 100 |
| River Devon | 3.1 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| River Don | 1.9 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| River Doon | 1.0 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| River Eachaig | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Earn | 0.3 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Eden | 2.8 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| River Esk (Lothian) | 2.2 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| River Esk (Solway) | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Etive | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Ewe | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Findhorn | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Fleet | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Forth | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |

| River Garnock | 2.4 | High | 350 | 350 | 400 | 100 | 100 | 150 |
|------------------------------|-----|--------|-----|-----|-----|-----|-----|-----|
| River Glass | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Gryfe | 6.0 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| River Helmsdale | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Hope | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Inver | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Irvine | 2.7 | High | 350 | 350 | 400 | 100 | 100 | 150 |
| River Kelvin | 7.3 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| River Kirkaig | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Laxford | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Leven (Fife) | 2.3 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| River Leven (Loch Lomond) | 1.8 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| River Leven (Lochaber) | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Ling | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Lochy | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |

| River Lossie | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
|------------------------------|-----|--------|-----|-----|-----|-----|-----|-----|
| River Morar | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Nairn | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Naver | 0.1 | Low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Ness | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Nith | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| River North Esk (Tayside) | 0.5 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| River Oykel | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Shiel | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Shin | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River South Esk (Tayside) | 0.5 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| River Spey | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Stinchar | 0.9 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| River Strathy | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |

| River Tay | 0.3 | low | 250 | 250 | 300 | 50 | 100 | 100 |
|------------------------|-----|--------|-----|-----|-----|-----|-----|-----|
| River Thurso | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Tweed | 0.3 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| River Tyne | 1.5 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| River Ugie | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| River Ythan | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Rousay Coastal | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Rum Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Shetland Coastal | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Sounds Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| South Ayrshire Coastal | 0.9 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| South Fife Coastal | 2.8 | high | 350 | 350 | 400 | 100 | 100 | 150 |
| South Uist Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Spey Bay Coastal | 0.4 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Stewartry Coastal | 0.2 | Low | 250 | 250 | 300 | 50 | 100 | 100 |

| Stirling Coastal | 2.4 | high | 350 | 350 | 400 | 100 | 100 | 150 |
|------------------|------|-----------|-----|-----|-----|-----|-----|-----|
| Thurso Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Tiree Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Tongue Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Torridon Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Unst Coastal | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Urr Water | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Water of Girvan | 0.9 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Water of Leith | 11.7 | very high | 450 | 500 | 500 | 150 | 150 | 150 |
| Water of Luce | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| White Cart Water | 19.6 | very high | 450 | 500 | 550 | 150 | 150 | 150 |
| Whiteadder Water | 0.6 | medium | 250 | 300 | 350 | 100 | 100 | 100 |
| Wick Coastal | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Wick River | 0.1 | low | 250 | 250 | 300 | 50 | 100 | 100 |
| Yell Coastal | 0.2 | low | 250 | 250 | 300 | 50 | 100 | 100 |

*Adjusted value for Inverness Coastal catchment due to higher population density (see note above)

Note: Treat values with caution

The monetary values for the Scottish waterbodies should be treated with caution. They should be treated as estimates intended to give an indication of value and they are particularly intended for use as part of the disproportionate cost assessment process.

Note: Inflation

The water benefit values study that was used as a basis for the values suggested above was carried out in 2013. To take account of inflation that has occurred since these values were derived, all of the benefit values for Scottish water bodies have been inflated by 10.1977%. This figure is based on Consumer Price Index (CPI) inflation figures from: www.ons.gov.uk/economy/inflationand priceindices/timeseries/d7g7/mm23