NRA Wales 175

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> WELSH REGION RHANBARTH CYMRU





Guardians of the Water Environment Diogelwyr Amgylchedd Dŵr SSO IMPROVEMENT STRATEGY (Proposed method of priority assessment)



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Regional Environmental Appraisal Unit NRA Welsh Region St. Mellons Cardiff CF3 OLT Report No. EAR/90/20

June 1990

#### 1. INTRODUCTION

Dwr Cymru have identified and allowed for £72m "within K" for SSO improvements over the next 20 years. This equates to an average annual expenditure of £3.6m p.a. and identifies a nominal spend of £60K per installation for the 1200 overflows originally identified (thus allowing pro rata 60 overflows p.a. to be improved where appropriate). This in itself may be insufficient to meet the generally more stringent consent conditions now being promulgated particularly in relation to screening. Furthermore, current estimates of the total number of overflows in existence in the Welsh Region are in the region of 2,000 such installations. Hence the available capital is likely to be insufficient to address the whole problem and there will need to be rigorous prioritisation of expenditure and a robust case may need to be made for an adjustment of 'K' to more realistic levels.

Clearly, there are strong grounds for developing an SSO improvement strategy in order to ensure that Welsh Water make best use of the £72m committed to improvements and to determine the extent to which 'K' might need adjustment to meet the requirements of NRA policy. It has thus been agreed that the above should be urgently progressed in 3 phases:

#### 2. OUTLINE OF PROPOSED METHOD

<u>Phase I</u>

The rapid development of criteria for assessing the impact of SSO's and identifying priorities for attention. These criteria should reflect the scale of the problem and the general level of knowledge about the performance and effectiveness of individual SSOs.

# <u>Phase II</u>

An intensive application of the criteria to the 2,000 overflows currently identified.

#### Phase III

To be concerned with the production of a strategy for improvement, and refined as the information database and tools develop. The strategy will be required within 2 years, if it is to play any part in the periodic review of "K", likely in 1994.

Several existing pieces of work have been identified as suitable starting points for Phase I, namely:

1. W W Northern Division - SSO Improvements Strategy (September 1987)

2. NRA S E Division - SSO Improvements Priority Listing (1990)

- 3. W W South West Division Assessment of Swansea Severage SSO's
- 4. W W List of Existing 2000 Overflows (to be supplied)

Overflows located at sewage treatment works and/or discharging to estuarine and coastal waters are addressed as separate entities. In both of the above cases the reason for their separation relates to current attitudes toward the nature of their potential solutions and <u>not</u> the nature of the problems which they generate. The criteria to be used to identify unacceptable SSOs and the information requirements necessary to be able to apply the criteria are outlined separately in Appendix 1. Explanatory notes amplifying the type of information required to assist completion of the forms and detailing why the information is required and what it is to be used for are also supplied separately (Appendix 2).

Finally, the criteria are to be applied under Phase II using the decision tree and scoring system provided in Appendix 3. Six primary groupings are ultimately identified:

Priority 1 (Highest) Priority 2 Priority 3A Priority 3B Priority 4 Priority 5 (Lowest)

It is proposed that these groupings are further reassessed in order to ascertain any geographical/sewerage system links, thus optimising sewerage sytem expenditure.

#### 3. <u>RESOURCE IMPLICATIONS</u>

The collection and collation of the information database has obvious resource implications. The level of technical know-how required to be able to make a reasonable judgement about each of the 80 fields is indicated in the following matrix. Clearly, if all 2,000 overflows were tackled, ca.160,000 bits of information will need to be collected and stored in a suitable database. Such a database would be best operated using a system such as "ORACLE" on the NRA mainframe or mini-system for ease of access and updating. Given the lack of in-house expertise, external analysts would need to be contracted in order to create the simple database envisaged. Projected costs are of the order of f8K (2K per week).

Irrespective of the explicit provision of additional temporary staff (see below) it is also important to note the extensive level of involvement, principally desk based, required of Dwr Cymru in order to identify the key characteristics of all 2,000 installations. Such a commitment must be adequately resourced in terms of the time made available. Extensive local knowledge support will also need to be provided to staff grades 1 to 4, by NRA Pollution Control grade 6 to 8 staff.

| QUESTION<br>NO. |   |      | STAFF GR | TAFF GRADE/CONTEXT |                 |            |
|-----------------|---|------|----------|--------------------|-----------------|------------|
| NU.             |   |      | 6-8(E&Q) | 6-8(EAU)           | PLC<br>(ADVICE) | DESK/FIELD |
| 1               | * |      |          |                    |                 | D          |
| 2 (a)           | * |      |          |                    |                 | D          |
| 2 (b)           | + |      |          |                    |                 | D          |
| 2               |   |      |          | *                  |                 | D          |
| 2<br>3          |   | *(T) |          |                    | *               | D/F        |
| 4               |   | *    |          |                    | *               | D/F        |
| 5               |   | *(T) |          |                    | *               | D/F        |
| 6               |   |      |          |                    | *               | D          |
| 7               |   | *    |          |                    | *               | D          |
| 8               |   | *    |          |                    | *               | D          |
| 9               |   | *    |          |                    | *               | D          |
| 10              |   | *    |          |                    | *               | D          |
| 11              |   | *    |          |                    | *               | D          |
| 12              |   | *    |          | *                  | *               | D          |
| 13              |   | *    |          | *                  | *               | D          |
| 14              |   |      |          | *                  | *               | D          |
| 15              |   |      |          | *                  | *               | D          |
| 16              | * |      |          |                    |                 | D          |
| 17              |   |      | *        | *                  | *               | D          |
| 18              |   | *    |          |                    | *               | D          |
| 19              |   | *    |          | *                  |                 | D          |

T - this indicates a training requirement (using staff Grade 6 - 8) at a cost of £150 per day.

| QUESTION |          |          |          | STAFF GRADE/CONTEXT |                 |            |
|----------|----------|----------|----------|---------------------|-----------------|------------|
| NO.      | 1/2(E&Q) | 3/4(E&Q) | 6-8(E&Q) | 6-8(EAU)            | PLC<br>(ADVICE) | DESK/FIELI |
| 1        |          | *        | LK       |                     |                 | D/F        |
| 2        |          | *        | LK       |                     |                 | ם          |
| 3        |          | *        | LK       |                     |                 | D          |
| 4        |          | *        | LK       |                     |                 | D          |
| 5        |          | *        | LK       |                     |                 | D          |
| 6        | *        |          | LK       |                     |                 | D/F        |
| 7        |          | *        | LK       |                     |                 | D/F        |

LK - Local knowledge support likely to be required to assist Grade 3/4 staff.

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| QUESTION | STAFF GRADE/CONTEXT |           |          |              |                 |            |  |
|----------|---------------------|-----------|----------|--------------|-----------------|------------|--|
| NO.      | 1/2(E&Q             | 3/4(E&Q)  | 6-8(E&Q) | 6-8(EAU)     | PLC<br>(ADVICE) | DESK/FIELD |  |
| 1        | *                   |           |          | -            |                 | D          |  |
| 2        | *                   |           |          |              |                 | D          |  |
| 3        | *                   |           |          |              | *               | ם          |  |
| 4        |                     | *(Hydrolo | gy)      |              | *               | α          |  |
| 5        |                     | *(Hydrolo |          |              | *               | D          |  |
| 6        | *                   | • •       |          |              | *               | ם          |  |
| 6<br>7   |                     |           | *        |              | *               | D/F        |  |
| 8        |                     | +         |          |              | *               | D/F        |  |
| 9        |                     |           | *        | *(Biologist) | ) *             | D/F        |  |
| 10       |                     |           | *        | *(Biologist) |                 | F          |  |
| 11       | *(IF,N)             |           |          | *(IF,Y)      | *               | F          |  |
| 12       | (== ))              |           | *        | · · · · /    | *               | D D        |  |

| PART IV : RECEIVING WATER DETAILS (ESTUARY/COASTAL LOCATIONS) |                     |          |          |          |                 |            |
|---|---------------------|----------|----------|----------|-----------------|------------|
| QUESTION  | STAFF GRADE/CONTEXT |          |          |          |                 |            |
| NO.   | 1/2(E&Q)            | 3/4(E&Q) | 6-8(E&Q) | 6-8(EAU) | PLC<br>(ADVICE) | DESK/FIELD |
| 1   |                     |          |          | *        |                 | D          |
| 2   |                     |          |          | *        |                 | D          |
| 3   |                     |          |          | *        |                 | D          |
| 4   |                     |          |          | *        |                 | D          |
| 5   |                     |          |          | *        |                 | D          |

The NRA has no budgetary provision to put towards this work, hence the group is looking to Welsh Water to resource it in the light of the following benefits envisaged:

- (i) to enable sensible negotiations with the Director General on "K"
- (ii) to evaluate the impact of NRA policy on "K" and/or the timescale for remedial works
- (iii) to facilitate sensible discussions with the NRA on the impact of higher consent standards on cost/timetable/scale aspects of remedial programmes.

A broad indication of likely costs are summarised below:

- 1. IT Database Development Costs<br/>(4 weeks at 2K per week)8
- 2. Site Visits : (6 months) 6 staff (3 groups of 2 for safety reasons) 28.2 1 x Grade 5 plus 5 x Grade 3
- 3. Form Completion and Decision Tree Calculation: (6 months) 1 x Grade 5 (11,508 p.a.) 5 x Grade 3 (8,982 p.a.) 28.2
- 4. Transport Provision: (6 months)3 vehicles (1 per pair)(1.7K per vehicle)
- 5.
   Oncosts (Travelling etc).

   6 x Superannuation (19%)
   10.7

   6 x Expenses
   (50%)

   28.2
- 6. Training Costs: Plant and Site Visits: 6 days at £150 per day 0.9

TOTAL COST 109.3K

£K

The above costs have been identified in the light of the following key assumptions, they are equivalent to 0.15% of total projected spend or 3% of the projected annual average expenditure on SSO improvements:

- (1) IT Database development costs reflect the need to contract out the work for a database handling some 160,000 bits of information.
- (2) Site visits will need to be made in pairs for safety reasons when visiting installations.
- (3) All 2,000 sites are to be visited at a rate of 6 installations per day per pair of operatives.
- (4) Transport provision and expenses are likely to be extensive due to the number and geographical spread of sites.
- (5) A project manager should be appointed and made responsible for project progress.

The above costs are notwithstanding those time resource commitments required of both NRA and Welsh Water staff offering advice and information to the project team.

## 4. RECOMMENDATIONS

- 1. That the Group accept the principal that WW/NRA will collaborate on the strategy as defined.
- 2. That the group endorse the strategy development methodology outlined.
- 3. That the group endorse the method of recovering the data advocated within the required timescale identified.
- 4. That WW accept the principal that it will resource the additional staff required to complete the work.
- 5. That the resource requirements should be refined within two months, with a view to agreeing the final budgets.
- 6. That the group accept the IT implications of the approved programme.
- 7. That the project be managed and administered jointly by WW/NRA, but based within the NRA operational structures.

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June 1990

# APPENDIX 1 : STORM SEVER OVERFLOW INFORMATION DATABASE FORMS

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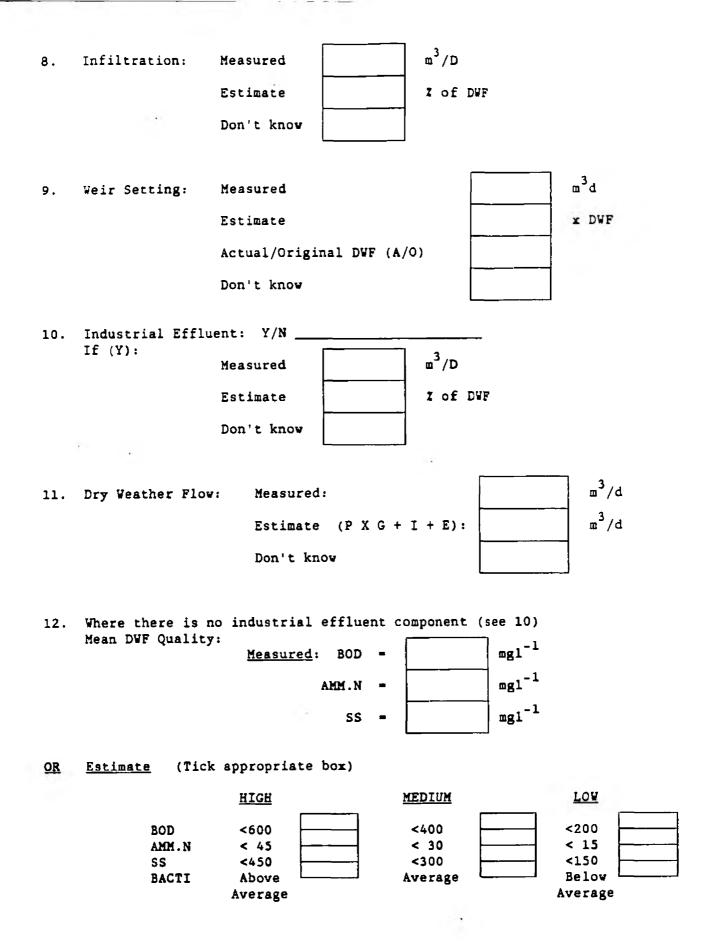
# STORM SEWER OVERFLOW INFORMATION DATABASE

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| PART_        | I : SSO DETAILS   |  |
|--------------|---|--|
| 1.           | SSO Reference No:   |  |
| 2 <b>a</b> . | SSO Location:   | 2b. At STW (Y/N):<br>2c. To Estuarine or Coastal<br>Waters (Y/N)   |
|              | Hydrometric Ref:  | (If Y, answer PART IV, <u>NOT</u> PART III)  |
|              |   | Other (specify)  |
| 3.           |   | ond  |
|              |   | Size (m3)  |
| 4 <b>.</b>   | (Tick one) C  | On-line<br>Off-line<br>None Aperture<br>Size (mm)  |
| 5.           | Screening Provision:<br>(Tick one)  | Bar Screen<br>Drum Screen<br>Grab Screens<br>Continuous - Chain Screens<br>Rolled Screens<br>Scum Boards<br>None<br>Other (please specify) |
| 6.           | Date of Installation :<br>(Tick one) Pre 19<br>Pre 19<br>Post 2<br>Post 2 | 970  |
| 7.           | Total Population Served   | d: Measured<br>Estimate<br>Don't Know  |

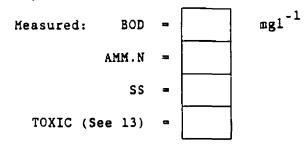
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| 13. |                |                                 | icant industrial effluent component (see 10)<br>and Industrial DWF Quality:        |
|-----|----------------|---------------------------------|--|
| •   |                |                                 | Measured : BOD = mgl <sup>-1</sup>   |
|     |                |                                 | AMM.N = mgl <sup>-1</sup>  |
|     |                |                                 | SS = mg1 <sup>-1</sup>   |
|     |                |                                 | Measured : TOXIC (Y/N)   |
|     |                | If                              | E Y: Specify:  |
|     |                | Mean concent                    | mg/l mg/l  |
|     | <u>or</u>      | <u>Estimate</u> :<br>(Tick one) | Better than Domestic<br>Worse than Domestic<br>Don't know<br>Toxic Component (Y/N) |
|     |                | Spe                             | ecify:   |
|     |                | •                               | Better than Domestic<br>Worse than Domestic<br>Don't know                          |
| 14. |                | sewer average gi                | atchment > 1 : 50<br>radient) < 1 : 50   |
| 15. | Sever<br>(Tick | Sediment Problems<br>one)       | B: Yes<br>No<br>Don't know   |
| 16. | Mean A         | nnual Rainfall (N               | Nearest Gauge): mm p.a.  |
| 17. | Propor         | tion of Impermeat               | Dle Area:<br><u>HIGH NORMAL LOW</u>  |
|     |                |                                 | >402 30-402 <302   |
| 18. | Propor         | tion of populatio               | on served by a <u>combined</u> system:   |
|     |                |                                 | 100Z (Y / N)   |
|     |                |                                 | (IF N) Z   |
|     |                |                                 | Don't know   |

19. Typical Spill Concentration:

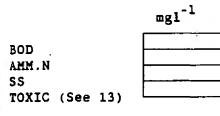


mg1<sup>-1</sup> Domestic only <u>Estimate</u>: (Tick one of): AMM.N <u>SS</u> BOD 400 125 10 Flat catchments (< 1 : 50) 350 Steep catchments (> 1 : 50) 75 6 DWF Multiplier (Flat catchments) 0.5 x DWF 0.3 x DWF 1.5 x DWF 1.5 x DWF JO.3 x DWF DWF Multiplier (Steep catchments) 0.3 x DWF

Domestic plus Industrial Estimate:

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# PART II : SSO OPERATIONAL OBSERVATIONS

| ÷ |    | 1 (* )<br>1                 | • |
|---|----|-----------------------------|---|
|   | 8. | Sensitivity of Location     |   |
|   | 7. | Frequency of Public Viewing |   |
|   | 6. | Ease of Public Access       |   |
|   | 5. | Fish Mortality              |   |
|   | 4. | Visual Impact Complaints    |   |
|   | 3. | Blockage Problems           |   |
|   | 2. | Public Complaint Record     |   |
|   | 1. | Operation in Dry Weather    |   |
|   |    |                             |   |

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|      |        | FREQUENCY                         |               |
|------|--------|-----------------------------------|---------------|
| HIGH | MEDIUM | LOW<br>(<1 p.a.)<br>where applic. | DON'T<br>KNOW |
|      |        |                                   |               |
|      |        |                                   |               |
|      |        |                                   |               |
|      |        |                                   | <br>          |

# PART III : RECEIVING WATER DETAILS (INLAND CASE)

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| 1a. | Receiving Water Name:   |
|-----|---|
| 16. | Receiving Water Nature:<br>Inland<br>Estuarine<br>Coastal<br>If Estuarine/Coastal go<br>to PART IV  |
| 2.  | Upstream Reach Reference: NGR:  |
| 3.  | Downstream Reach Reference: NGR:  |
| 4.  | Mean Daily Flow: Measured m <sup>3</sup> /d<br>Estimate m <sup>3</sup> /d<br>Don't know   |
| 5.  | 95Zile Low Flow: Measured m <sup>3</sup> /d<br>Estimate m <sup>3</sup> /d<br>Don't know   |
| б.  | Dilution (952ile River : Sewer DWF)<br>(Tick as appropriate) <u>LOW MEDIUM HIGH</u><br><3:1 3-7:1 >8:1  |
| 7.  | Reaeration Capacity :<br>(Tick as appropriate)<br>R1 Drainage Ditch/Backwaters<br>R2 Sluggish Streams (eg <0.1 ms <sup>-1</sup> )<br>R3 Streams of Low Velocity (eg >0.1-0.2 ms <sup>-1</sup> )<br>R4 Streams of Average Velocity (eg 0.2-0.5 ms <sup>-1</sup> )<br>R5 Streams of High Velocity (eg >0.5ms <sup>-1</sup> )<br>R6 Rapids (eg >1.0 ms <sup>-1</sup> ) |
| 8.  | NWC Class of Receiving Reach (upstream): Classified     1     2     3/4       (Tick as appropriate)     Unclassified (Nominal)     1     1  |
|     |   |

| 9. Biological Quality of Receiving Reach                        | <u>1 2 3 4/5</u><br>A (Upstream):    |
|---|--------------------------------------|
| Classified (BMWP)   |                                      |
| Unclassified (Nom   | ninal)                               |
| 10. Sewage Fungus Presence:                                     | Extent (If Yes)<br>(High/Medium/Low) |
| Above (Y / N)   |                                      |
| Below (Y / N)   |                                      |
| Don't know  |                                      |
| <pre>11. Sewerage Derived Litter:<br/>Extent (<br/>(H / M</pre> | (If Yes) Type (If H/M)               |
| <u></u> /_n   | <u>Cotton Paper Plastic Rubber</u>   |
| Above (Y / N)   |                                      |
| Below (Y / N)   |                                      |
| Don't know  |                                      |
| 12. Receiving Water Uses/Objectives:                            |                                      |
| LTQO (Actual) 1   | 2 3 4                                |
| LTQO (Nominal)  |                                      |
| Salmonid<br>Designated Fisheries (S)                            | Cyprinid<br>(C) none                 |
| Nominal Fisheries S   | C none                               |
| Potable Abstraction (Y/N)                                       |                                      |
| Stock Watering (Y/N)  |                                      |
| Irrigation (Y/N)  |                                      |
| Conservation (designated)<br>(Y/N)                              | Туре                                 |
| Recreational Use (Y/N)  |                                      |
| (If Yes) Contact Use (Y/N)                                      |                                      |

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| PART | IV : RECEIVING WATER DETAILS (ESTUARY/COASTAL LOCATION)    |
|------|--|
| 1.   | Receiving Water Details:                                   |
| 1a.  | Receiving Water Name:                                      |
| 15.  |  |
|      | Coastal  |
|      | Barrage  |
|      | Other  |
|      | Specify:   |
| 2.   | Receiving Water Stretch Reference: NGR:                    |
| 3.   | Receiving Vater Flow/Volume Conditions:                    |
|      | (a) If Estuarine : River 95% ile low flow m <sup>3</sup> s |
|      | (b) If Coastal : A M I D <10 10-100 >100 : 1               |
|      | (c) If Barrage : Minimum Impounded Volume 3                |
| 4.   | Receiving Water Uses/Objectives/Standards                  |
|      | (a) If Estuarine:  |
|      | (1) DOE/NWC Classified A B C D                             |
|      | (2) Nominal A B C D  |
|      | (3) Migratory Fish (Y/N)                                   |
|      | (4) Commercial Shell Fishery (Y/N)                         |
|      | (5) Basic Amenity (Y/N)                                    |

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|    | (b)  |                  | arging directly or adjacent to<br>signated Bathing (Y/N)   |                 |
|----|------|------------------|--|-----------------|
|    |      |                  | arging directly or adjacent to<br>C Designated Bathing (Y/N)   |                 |
|    |      |                  | arging directly or adjacent to<br>Contact Based Recreation (Y/N)   |                 |
|    |      | Basic            | Amenity (Y/N)  |                 |
|    | (c)  | If Barrage:      | (1) Migratory Fish (Y/N)   |                 |
|    |      |                  | (2) Water Contact Based Recrea   | tion (Y/N)      |
|    |      |                  | (3) Basic Amenity (Y/N)  |                 |
| 5. | Like | ely Receiving Wa | ater Impacts of SSO (Actual/Pote   | ntial):         |
|    | (a)  | If Estuarine:    | (1) Aesthetics: Does it result<br>recognisable Faecal Solids?  |                 |
|    |      |                  | (2) Does it result in Persisten<br>Sewage Debris? (Y/N)  | t Plastics/     |
|    |      |                  | <ul> <li>(3) Does it result in unaccepta<br/>bacteriological impacts to <ol> <li>Recreational Waters (Y/N)</li> <li>Shellfishery (Y/N)</li> </ol> </li> <li>EC Designated Beaches (Y<br/>iv. Nearby EC Designated Bea<br/>v. Don't know</li> </ul> | :<br>()<br>(/N) |
|    |      |                  | (4) Dispersive Characteristics:  | High            |
|    |      |                  |  | Low             |
|    |      |                  |  | Don't know      |
|    |      |                  | (5) Does it discharge at or bel<br>low water? (Y/N)  | 0 <b>W</b>      |
|    |      |                  | (6) Unacceptable Impact on the<br>water quality criteria:  | following       |
|    |      |                  |  | D O (Y/N)       |
|    |      |                  |  | Ammonia (Y/N)   |
|    |      |                  |  | Toxic (Y/N)     |
|    |      |                  |  | Don't know      |
|    |      |                  |  |                 |

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- (b) If Coastal :
- (1) Aesthetics: Does it result in recognisable Faecal Solids? (Y/N)
- (2) Does it result in Persistent Plastics/Sewage Debris (Y/N)
- (3) Does it result in unacceptable Bacteriological Impacts to:

  Recreational Waters (Y/N)
  Shellfishery (Y/N)
  EC Designated Beaches (Y/N)
  Nearby EC Designated Beaches (Y/N)
  - v. Non EC Beaches (Y/N) vi. Nearby Non EC Beaches (Y/N)

(5) Dispersive Characteristics: High

Low

Don't know

(6) Bacteriological Compliance Effects: EC Bathing Waters (Y/N)

Non EC Bathing Waters (Y/N)

- (c) If Barrage : (1) Aesthetics: Does it result in recognisable Faecal Solids? (Y/N)
  - (2) Does it result in Persistent Plastics/Sewage Debris? (Y/N)
  - (3) Does it result in significant Bacteriological Impacts (Y/N)

(4) Dispersive Characteristics: High

Low

Don't know

(5) Does it result in significant Water Quality Impacts: DO (Y/N)

Ammonia (Y/N)

Toxics (Y/N)



| _        |  |  |  |
|----------|--|--|--|
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APPENDIX 2: SSO INFORMATION DATABASE EXPLANATORY NOTES

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#### PART I : SSO DETAILS

#### Question No:

#### <u>Notes</u>

- 2a To ensure some indication of location, NGR is required. Ultimately a Hydrometric Reference should be supplied, to enable overflow groupings on the same severage system to be identified.
- 2b To ensure that separate attention is given to overflows at STW's, where solutions are potentially less complicated and the situation more directly controllable.
- 2c To ensure that those overflows discharging to estuary and coastal waters receive specific attention in relation to the anticipated uses of the receiving water (see Part IV).
- 3 Different installation designs have been proven to perform at different levels of satisfaction (WRc ER 304E, April 1988). Overflow types are best identified by an example visit. This will have obvious training and hence cost implications (i.e. 1 day at Grade 8 ca. £150).
- 4 Storage improves the quality of the spill water by offering first foul flush retention capabilities and the settlement of some solids. If provided, indicate size or capacity.
- 5 The aperture size recorded should relate to the <u>maximum</u> aperture dimension. Screening provision types are again best identified by an example visit. Training cost implications again of the order of ca. £150 per man day.
- 6 The age of the installation will generally reflect the relative progress in optimising SSO design.
- 7 Relates to the <u>total</u> population served by the total length of sewer above the point of overflow (i.e. this is accumulative).
- 9 Where weir settings are estimated on the basis of DWF multiples, it is important to note whether the <u>originally</u> identified DWF is still applicable or that it has changed substantially (more likely for older installations).
- 12 Where there is no significant industrial effluent component, DWF quality can be estimated by reference to average figures produced by WRc (WRc ER 317E).
- 13 Where there is a significant industrial effluent component, the <u>combined</u> DWF quality should be reported or estimated.
- 14 This feature acts as a surrogate indicator for the likelihood of significant sever sediment accumulation in line with the reasoning identified in WRC's Interim Planning Procedure (ER 317E).

- 15 Normally, this can only be determined by past experience of such problems or visual inspection at key manholes. Such sediment problems are likely to lead to blockage and potential gross solids contamination during first foul flush conditions.
- 16 Used as a surrogate to estimate likely frequency of operation, coupled with information in 17.
- 17 This variable might indicate the likelihood of more or less spills than would normally be experienced in typical areas covered by paving, roofing and road materials. It indicates the proportion of the <u>sewered</u> catchment covered by impermeable materials.
- 18 Combined systems are more likely to spill effluent of a poorer quality due to the presence of all crude inputs at the time of spill. Inclusion of separately severed sections will generally reduce spill strength, but <u>increase</u> spill frequency.

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19 Typical spill concentrations will rarely be measured, but can be estimated from extensive data collation work done by WRc (WRc ER 317E). Where significant industrial organic loads are present, estimates are likely to be elevated over and above those indicated for domestic only situations.

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### PART II : SSO OPERATIONAL OBSERVATIONS

# Question No:

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- 6° -

## Notes

- 4 To reflect the frequency of complaints relating to any visual impacts of the SSO including gross solids, litter and sewage fungus effects.
- 6 An indication of the ease with which the SSO could be viewed and therefore visual impact experienced.
- 7 An indication of the <u>actual</u> level of public viewing.
  - An indication of the potential to cause offence due to its location:
    - e.g. High centre of a housing estate
    - e.g. Low into a ditch located well away from housing

#### PART III : RECEIVING WATER DETAILS (INLAND CASE)

#### Question No:

### Notes

- 1b Identifies receiving water as inland, estuarine or coastal and redirects response to Part III or Part IV.
- 2 Where NWC classified stretches are applicable, both NGR and hydrometric reference are provided. If the receiving water stretch is unclassified, just provide NGR.
- 3 As in 2. above.
- 4 Measured/estimated immediately above the point of discharge.
- 5 As in 4. above.
- 6 Dilution of potential spill, 95% ile river flow to sever DWF. A measure of the likely assimilative capacity even at times of low river flow. Derived from CSO study experience and the 1912 Royal Commission recommendations for continuous discharges.
- 7 An indication of the potential for assimilating organic inputs with significant oxygen depletion. Taken from the IWU Consents Procedure Circular 87/8.
- 8 This is intended to assess the immediate impacts of the SSO and therefore only covers the upstream receiving water quality. Pollution control staff are requested to make a reasonable judgement.
  - 9 As in 8. above. Any unclassified receiving waters <u>allocated a nominal biological class should be assessed in</u> consultation with divisional EAU biologists.
  - 10 Included to give some indication of any gross impacts. Sewage fungus presence should be assessed by divisional EAU staff where there is any doubt.
  - 11 The extent of contamination can only be judged after a training visit to representative sites on the Taff. The classes are taken from those identified in the Taff Litter Survey (Davies, 1989).
  - 12 These vill eventually be superseded by Statutory Quality Objectives.

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#### PART IV : RECEIVING WATER DETAILS (ESTUARINE/COASTAL LOCATIONS)

This Section is to be completed by EAU staff, consulting pollution control staff where local knowledge is insufficient.

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### Question No:

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#### Notes

- 3 A measure of the available assimilative capacity in dilution terms. Available Minimum Initial Dilution Levels are requested relative to Low Water Mean Spring Tidal States.
- 4 An indication of the potential uses of the receiving waters.
- 5 An indication of actual and/or potential impacts to receiving waters.

APPENDIX 3 : STORM SEWER OVERFLOW IMPROVEMENT STRATEGY DECISION TREE AND SCORING MECHANISM FOR PRIORITY IDENTIFICATION

## STORM SEWER OVERFLOW : DECISION DIAGRAM

It is suggested that the following two decision diagrams are applied to the collated information, in an effort to identify those overflows which merit priority attention in Dwr Cymru's Capital programme.

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| Industriel Component: Organic<br>  Weir Setting (X DYF)<br>  Wigh Score<br>  Law Score<br>  Law Score<br>  Law Score<br>  BED<br>  | $  10,000  3000-10,000  3000    M \\   M \\                            $  | 0 ++ #IGH +-+4. H/# Visual. [+<br>  [(10-16)] ] Espect Observed]<br>  | IPRIONITY 30   H       Image: Second  | j LOCATED ALJ ++ j RETAIN PRIORITY BU<br>STW ++ Y ++ ADDRESS SEPARATELY<br><br>J<br>J<br>H J   |
| Industriel Component: Organic<br>  Weir Setting (X DYF)<br>  High Score<br>  Law Score<br>  Law Score<br>  Law Score<br>  BED<br>  | >10,000 3000-10,000 <300<br>  H R L<br>(<3 3-4 -6<br>-10 - 16<br>- 9<br>0 - 3<br>   | 0 ++ HIGH +-+4. H/H Visual (+<br>  [(10-16)]   Impact Observed]<br>e+ [3. Basege Fungue  <br>    Below  <br>    6. Bignificent  <br>    Toxic Component <br>++<br>+   H ++<br>++<br>  + ++<br>++<br>  + ++<br>  + +++<br>  + ++++++<br>  + +++++++<br>  + ++++++++++  | IPRIONITY 30   H       Image: Second  | j LOCATED ALJ ++ j RETAIN PRIORITY BU<br>STW ++ Y ++ ADDRESS SEPARATELY<br><br>J<br>J<br>H J   |
| Industriel Component: Drganic<br>  Heir Setting (X DYF)<br>  High Score<br>  Law Score<br>  Law Score<br>  Law Score<br>  Environments AL FACTORS (ENV.)<br> <br>Heceiving Mater Quality<br>  (Classified)<br>  (Nominal)<br>  ADD<br>  Pichery Status<br>  Conservation Status<br>  BMMP Score<br>  Stock Matering<br>  Spray Irrigation<br>  Duty Lion (DS1 : DNF).<br>  High Score<br>  Law Score   | >10,000 3000-10,000 <300<br>  H R L<br>(<3 3-4 -4<br>= 10 - 16<br>- 4 - 9<br>0 - 3<br>/ LOM   | D ++ #IGH +-+4. H/W Visual. [+<br>  [(10-16)] ] Espect Observed]<br>(+ ]3. Bassgo Fungue ]<br>    Balow    <br>    Balow    <br>    A. Bignificant  <br>    Toxic Component]<br>+   N ++<br>        ++<br>        ++<br>        ++<br>              ++<br>  | IPRIONITY 30   H       Image: Second  | j LOCATED ALJ ++ j RETAIN PRIORITY BU<br>STW ++ Y ++ ADDRESS SEPARATELY<br><br>J<br>J<br>H J   |
| Industriel Component: Organic<br>  Heir Setting (X DYF)<br>  High Score<br>  Law Score<br>  Law Score<br>  Law Score<br>  Environmentation<br>  Environmentati   | >10,000 3000-10,000 <300<br>  H R L<br>(<3 3-4 -4<br>= 10 - 16<br>- 4 - 9<br>0 - 3<br>/ LOM   | 0 #IGH4. H/W Visual [+<br>  [(10-16)] ] Espect Observed]<br>  | Image: second                  | j LOCATED ALJ ++ j RETAIN PRIORITY BU<br>STW ++ Y ++ ADDRESS SEPARATELY<br><br>J<br>J<br>H J   |
| Industriel Component: Drganic<br>I weir Setting (2 DVF)<br>I High Score<br>Law Score<br>Law Score<br>ENVIRONMENTAL FACTORS (ENV.)<br>Securing Mater Quality<br>(Classified)<br>(Maminel)<br>ADD<br>Pichery Status<br>Conservation Status<br>DMMP Score<br>Stock Matering<br>Spray Irrigation<br><u>Out Ditution (DS1 : DNF)</u><br>  High Score<br>Law Score   | >10,000 3000-10,000 <300<br>  H R L<br>(<3 3-4 -9<br>- 10 - 16<br>- 4 - 9<br>0 - 3<br>/ LOU<br>- 5<br>/ LOU<br>- 5<br>- 5<br>- 7<br>- 10 - 16<br>- 7<br>- 7<br>- 7<br>- 7<br>- 7<br>- 7<br>- 7<br>- 7<br>- 7<br>- 7 | D ++ HIGH +-+4. H/H Visual (+<br>  [(10-16)]   Impect Observed]<br>(++) [3. Baugg Fungue  <br>    Below  <br>    Below  <br>    A Bignificant  <br>    Toxic Component <br>+   H ++<br>      H ++<br>      H ++<br>        H ++<br>   | Image: second                  | j LOCATED ALJ ++ j RETAIN PRIORITY BU<br>STW ++ Y ++ ADDRESS SEPARATELY<br><br>J<br>J<br>H J   |
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|                     | Envilonmental factors (E)<br>1. Avoitable Dilution Crili<br>2. Dispersive Characterist<br>3. Estuary Class<br>1. (where applicable)<br>4. Nigratory Fish<br>3. Shell Fishery<br>6. Bathing : EC<br>3. Non-EC<br>7. Mater Contect  | RED / LOU  |   | ]<br>О ]<br>И ]<br>И ]  | I ++<br>I ++<br>I +<br>I +<br>I +<br>I +<br>I +<br>I +<br>I +<br>I  | ++  <br>++  <br>++  <br>++                               |  |                     |                    | 1 + 1           |                     |
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|                     | Envilonmental factors (E)<br>Envilonmental factors (E)<br>5. Avoitable Dilution Crill<br>2. Dispersive Characterist<br>(3. Estuary Class<br>( where applicable)<br>4. Nigratory Fish<br>(3. Shell Fishery<br>(6. Babling : EC<br>) Non-EC<br>(7. Veter Contect<br>(8. Basic Assenty<br>(9. Basic Assenty<br>(10 Persisioni Plastics Import<br>(11 Spectariological Import)  | MED / LOW  | <u>c o a i</u><br>1<br>N<br>N<br>N  | ]<br>О ]<br>И ]<br>И ]  | M +<br>  +<br> <br>   | +++<br>+++<br>+++<br>+++<br>+<br>+++<br>1<br>1<br>1<br>1 |  |                     |                    | 1 + 1           |                     |
|                     | Envilonmental factors (E)<br>Envilonmental factors (E)<br>5. Avoitable Dilution Crill<br>2. Dispersive Characterist<br>(3. Estuary Class<br>( where applicable)<br>4. Nigratory Fish<br>(3. Shell Fishery<br>(6. Babling : EC<br>) Non-EC<br>(7. Veter Contect<br>(8. Basic Assenty<br>(9. Basic Assenty<br>(10 Persisioni Plastics Import<br>(11 Spectariological Import)  | MED / LOW  | <u>C D A E</u><br>1<br>N<br>N<br>N<br>D   | ]<br>О ]<br>И ]<br>И ]  | M +<br>  +<br> <br>   | +++<br>+++<br>+++<br>+++<br>+<br>+++<br>1<br>1<br>1<br>1 |  |                     |                    | 1 + 1           |                     |
|                     | Envilonmental factors (E)<br>1. Avoitable Dilution Cril<br>2. Dispersive Characterist<br>3. Estuary Class<br>1. (where applicable)<br>4. Higratory Fish<br>5. Shell Fishery<br>16. Bathing : EC<br>3. Noter Contact<br>19. Basic Anonity<br>10. Desic Anonity<br>10. Devisions Fishide Ing<br>10. Persisions Fishitics Ing<br>11. Devisions Fishitics Fis  | MED / LOW  | <u>C D A E</u><br>1<br>N<br>N<br>D  | ]<br>О ]<br>И ]<br>И ]  | M +<br>  +<br> <br>   | +++<br>+++<br>+++<br>+++<br>+<br>+++<br>1<br>1<br>1<br>1 |  |                     |                    | 1 + 1           |                     |
|                     | Envilonmental factors (E)<br>Envilonmental factors (E)<br>1. Avsitable Dilution Cril<br>2. Dispersive Characterisi<br>3. Estuary Class<br>1. (where applicable)<br>3. Estuary Class<br>1. (where applicable)<br>3. Estuary Class<br>1. (where applicable)<br>3. Estuary Class<br>1. Noter Contact<br>1. Basic Anonity<br>1. Recontant Santis Inpets<br>1. Recontant Santis Impets<br>1. Righ Scort<br>1. Righ | MED / LOW  | <u>C D A E</u><br>1<br>N<br>N<br>D  |   | M +<br>  +<br> <br>   | +++<br>+++<br>+++<br>+++<br>+<br>+++<br>1<br>1<br>1<br>1 |  |                     |                    | 1 + 1           |                     |
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|                     | Envilopmental factors (E) Envilopmental factors (E) 1. 1. Austituble Dilution Crill 2. Dispersive Characterisi 13. Estuary Class 1 (where applicable) 14. Higratory Fish 15. Shell Fishery 16. Basic Anenity 19. Basic Anenity 19. Recognisable Solids Ing 10 Persisioni Plastics Ing 10 Persisioni Plastics Ing 11 Bocteriological Import 1 Bigh Scor  | MED / LOW  | <u>C D A E</u><br>1<br>N<br>N<br>D  | I       III       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  |   | ••••••••••••••••••••••••••••••••••••••                   |  |                     |                    | 1 + 1           |                     |
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|                     | Envilopmental factors (E)<br>1. Avsitable Dilution Cril<br>2. Dispersive Characterist<br>3. Estuary Class<br>1. (where applicable)<br>4. Highstory fish<br>5. Shell Fishery<br>16. Bathing : EC<br>1 . Noter Contact<br>18. Basic Anonity<br>10. Persisiont Plastics Impetion<br>11. Basic Anonity<br>13. Becteriological Impetion<br>1   | MED / LOW  | <u>C D A E</u><br>1<br>M<br>N<br>D<br>24<br>15<br>7   | I       III       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  | I OPER. & EMV.  <br>COMPOSITE +<br>I (10+) I<br>COMPOSITE +<br>I (10+) I<br>(10-26) *<br>I (10-26) *<br>I I<br>I I<br>I I<br>I I<br>I I<br>I I<br>I I | ••••••••••••••••••••••••••••••••••••••                   |  |                     |                    | 1 + 1           |                     |
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