WATER INDUSTRY ACT 1991: SECTION 19(1)(b)
CYNULLIAD CENEDLAETHOL CYMRU (THE NATIONAL ASSEMBLY FOR WALES):

1) is satisfied that Dŵr Cymru Cyfyngedig "the Company" in supplying water in its Distribution System which on certain occasions has exceeded the prescribed concentration for Aluminium, Iron, Manganese and Turbidity has contravened and is likely to do so again its duty in respect of supplying water which meets the Regulations under Section 68(1)(a) of the Water Industry Act 1991 and meets the requirement set in regulation 4(2)(c) of the Water Supply (Water Quality) Regulations 2001.

2) Notes that Dŵr Cymru Cyfyngedig has on 18 January 2008 given a new undertaking under the provisions of paragraph 2(b) of the previous undertaking given on 6 September 2002 (Ref no: DC 099) to replace the undertaking and take the following steps by the dates shown:-

(a) Submit to the National Assembly for Wales the Company's distribution system strategy which describes the steps to be taken to identify the nature and extent of contraventions to justify the need for improvement works; to implement improvements to its distribution system to prevent a recurrence of the contraventions; and to demonstrate the benefits of the improvements made. The current strategy supplied by the Company is that entitled “Mains Rehabilitation Strategy Document, Issue 4”, and dated April 2005.

Complete by March 2005

(b) Implement the strategy, including all Pre- and Post-Renovation Assessments (PPRA). For the duration of the Undertaking.

(c) Renovate (i.e. replace or reline) a total of 4,285 km of the distribution system. This renovation is to be carried out according to the priorities and methodologies described in the Company's strategy, as identified in the Notes to the Schedule of Works, and in ‘Milestone Packages’ as summarised below and detailed in Annex A to this Schedule of Works.

Complete by 30 September 2009, and by the completion dates for each milestone package below.

<table>
<thead>
<tr>
<th>Milestone Package</th>
<th>Length (km)</th>
<th>Date for completion of renovation work</th>
<th>Date for completion of PPRA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>636</td>
<td>31/12/2001</td>
<td>31/12/2002</td>
</tr>
<tr>
<td>2</td>
<td>776</td>
<td>31/12/2003</td>
<td>31/12/2004</td>
</tr>
<tr>
<td>3</td>
<td>948</td>
<td>31/12/2005</td>
<td>31/12/2006</td>
</tr>
<tr>
<td>4</td>
<td>1254</td>
<td>31/12/2007</td>
<td>31/12/2008</td>
</tr>
<tr>
<td>5</td>
<td>671</td>
<td>30/09/2009</td>
<td>30/09/2010</td>
</tr>
</tbody>
</table>
If renovation work is not justified by Pre-Renovation Assessment in any of the zones listed, the zones of next highest priority should be substituted so as to maintain the output length specified for each Milestone Package in this Schedule of Works.

(d) Apply non-aggressive cleaning techniques to remove loose deposits from a total of 3,944 km of the distribution system. This cleaning is to be applied systematically to each Water Supply Zone listed in Annex A and Annex B to this Schedule of Works, including any necessary trunk or feeder mains, concurrently with the completion of renovation work in each zone, in accordance with the Method Statement referred to in paragraph (e).

**Complete by 31 March 2010**

(e) A list of zones/sub zones are to be provided as Annex C where renovation and PPRA has been completed and no further activity other than cleansing is proposed or where it has been identified that there is no justification for further activity.

**Complete by 31 December 2007**

(f) Submit a Method Statement for this cleaning which includes

- the methodology used to determine or confirm that it is appropriate to clean the area concerned, in particular to determine the origin of any particulate matter or discolouration events, and to confirm that significant quantities of particulate matter would not be brought into the area from upstream mains or treatment works,
- the timing of cleaning works relative to other relevant actions in the supply system concerned, including any improvements to treatment, the renovation work in this Undertaking and Post-Renovation Assessment,
- the criteria used to determine the particular mains to be cleaned,
- the criteria for selecting the cleaning techniques to be used,
- the methodology and design approach for determining the sequence of cleaning actions,
- consideration of enabling works,
- disposal arrangements,
- arrangements to advise and protect consumers, and
- the methods used to confirm that the cleaning work was effective, and that the condition of the distribution system in each Water Supply Zone is satisfactory.

**Complete by 30 September 2005**

(g) Submit, in the form of a revised Annex B to this Schedule of Works, a programme for the cleaning works referred to in paragraph (d), setting out the types of techniques to be applied, lengths required and completion dates in each Water Supply Zone (WSZ). Revised Annexes shall include the programme for each Milestone Package as follows:

- WSZs to be completed in Milestone Package 4
  **Complete by 31 March 2009**
- WSZs to be completed in Milestone Package 5
  **Complete by 31 March 2010**

(h) Submit to the National Assembly for Wales a full statement of progress with this Undertaking in the format specified periodically by the DWI.

**Annually by 28 February or as notified by DWI**
(i) Submit to the National Assembly for Wales a summary of progress with this Undertaking in the format notified periodically by the DWI.
   **Quarterly by 30 April, 31 July and 31 October or as notified by DWI.**

(j) Submit to the National Assembly for Wales when necessary proposed updates to Annex A to this Schedule. See Notes to the Schedule of Works.
   **Annually by 31 March or as notified by DWI.**

(k) Submit to the National Assembly for Wales the Company’s strategy for strategic operation and maintenance of its distribution system to prevent a recurrence of the contraventions. The current strategy supplied by the Company is the “Distribution Operations and Maintenance Strategy, Final” dated 27 June 2007.
   **Complete 30 June 2007**

(l) Monitor the concentration or value of the named parameters for each zone listed in Annex A to this Schedule for the duration of this programme at the check sampling frequency indicated in Table 2 of Schedule 3 of the Water Supply (Water Quality) Regulations 2000 Regulations. If the concentration in any sample exceeds the current standards (iron 200 µg/l; manganese 50 µg/l; turbidity 4 NTU; aluminium 200 µg/l) take appropriate remedial action and report to DWI in accordance with current monthly reporting procedures. If the Estimated Likely Maximum Deviation of Quality is exceeded in more than one sample per zone in each calendar year (iron 500 µg/l; manganese 125 µg/l; turbidity 10 NTU; aluminium 500 µg/l) take all appropriate means to protect public health in consultation with the local office of the Health Protection Agency. Report to DWI in accordance with current monthly reporting procedures.
   **For the duration of this programme of works.**

(m) At regular intervals provide DWI with reports on progress made with carrying out this programme of improvement works. Reports to include at least the following details.
   - Details of the programme of works outlined in (c) and (d).
   - Current state of progress with the programme of works in (1) above.
   - A statement of the implications of any slippage of the programme in (1) above.
   - Details of the prospect of recovery of any slippage mentioned in (3) above, including degree to which slippage is expected to be recovered and how it will be recovered.
   - Whether the Company has any reason to believe that it will not be able to meet any
   - (m) As (g), (h) and (i) above, and by exception report if the programme shows any signs of slippage, of the key dates in the Undertaking.
is satisfied that Dŵr Cymru Cyfyngedig has given and is complying with an undertaking to take all such steps as appear to the Secretary of State for the time being to be appropriate to secure or facilitate compliance with the requirement of Regulation 4(2)(c) of the Water Supply (Water Quality) Regulations 2001.

Authorised by the National Assembly for Wales
to sign in that behalf

Milo Purcell
Deputy Chief Inspector
Drinking Water Inspectorate

DWI Ref No: DC 116
08 February 2008