

**Reporting of Emissions to Water (other than to Sewer) for the period from 1st February 2021 to 28th February 2021**

**Operator:** RWE Generation UK plc

**Form:** Water1 /25/01/2013

**Location:** Aberthaw

**Version:** V.8 Jan 2013

**Permit/Variation Number:** EPR/RP3133LD

| Emission Point | Substance / Parameter                                      | Emission Limit Value           | Result <sup>[1]</sup>  | Test Method <sup>[2]</sup>         | Sample Date and Times <sup>[3]</sup> | Accreditation/ Certification <sup>[4]</sup> | Uncertainty <sup>[5]</sup> |
|----------------|--|--------------------------------|--|------------------------------------|--------------------------------------|---|----------------------------|
| W1             | Total suspended solids                                     | 100 mg/l                       | No release   | BS EN 872:2005                     |                                      |   |                            |
| W1             | Ammoniacal nitrogen  | 2 mg/l                         | No Release   | BS 6068-2.11                       |                                      |   |                            |
| W1             | Cadmium and its compounds, expressed as cadmium (Total Cd) | 0.01 mg/l                      | No release   | BS 6068-2.89                       |                                      |   |                            |
| W1             | Total hydrocarbon oil                                      | 3 mg/l                         | No Release   | EN ISO 9377-2                      |                                      |   |                            |
| W1             | pH (minimum daily value)                                   | 6                              | No Release   | BS 6068-2.50:1995                  |                                      |   |                            |
| W1             | pH (maximum daily value)                                   | 9                              | No Release   | BS 6068-2.50:1995                  |                                      |   |                            |
| W1             | pH (average daily value)                                   | -                              | No Release   | BS 6068-2.50:1995                  |                                      |   |                            |
| W2             | Differential total suspended solids                        | 50 mg/l                        | 45.67 mg/l   | BS EN 872:2005                     |                                      |   |                            |
| W2             | Ammoniacal nitrogen  | 0.1 mg/l<br>(above background) | 0.260 mg/l<br>Ammoniacal nitrogen is absolute, not differential. | BS6068-2.11                        |                                      |   |                            |
| W2             | Differential temperature (rolling 98th percentile)         | 13.5°C                         | Temperature at ambient. No thermal process remains operational.  | ISO, BS EN or SCA Blue Book Method |                                      |   |                            |
| W2             | Differential temperature (average daily value)             | -                              |  | ISO, BS EN or SCA Blue Book Method |                                      |   |                            |
| W2             | Differential temperature (maximum daily value)             | -                              |  | ISO, BS EN or SCA Blue Book Method |                                      |   |                            |
| W2             | Total hydrocarbon oil                                      | 3 mg/l                         | 0.011 mg/l   | EN ISO 9377-2                      |                                      |   |                            |
| W2             | pH (minimum value)   | 5.6                            | 7.5  | BS 6068-2.50:1995                  |                                      |   |                            |
| W2             | pH (maximum 95%ile value)                                  | 8.5                            | 8.1  | BS 6068-2.50:1995                  |                                      |   |                            |
| W2             | pH (minimum 95%ile value)                                  | 5.8                            | 7.5  | BS 6068-2.50:1995                  |                                      |   |                            |
| W2             | pH (average value)   | -                              | 7.7  | BS 6068-2.50:1995                  |                                      |   |                            |

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|----------------|--|-----------------------------------|-----------------------|----------------------------|--------------------------------------|---|----------------------------|
| SWTP1          | Mercury and its compounds, expressed as mercury (Total Hg)<br>(monthly average of daily samples) | 0.0005 mg/l<br>(above background) | Insufficient Running  | BS EN 17852                |                                      |   |                            |
| SWTP1          | Cadmium and its compounds, expressed as cadmium (Total Cd)<br>(monthly average of daily samples) | 0.0002 mg/l<br>(above background) |                       | BS 6068-2.89               |                                      |   |                            |
| SWTP2          | Mercury and its compounds, expressed as mercury (Total Hg)<br>(monthly average of daily samples) | 0.0005 mg/l<br>(above background) |                       | BS EN 17852                |                                      |   |                            |
| SWTP2          | Cadmium and its compounds, expressed as cadmium (Total Cd)<br>(monthly average of daily samples) | 0.0002 mg/l<br>(above background) |                       | BS 6068-2.89               |                                      |   |                            |
| SWTP3          | Mercury and its compounds, expressed as mercury (Total Hg)<br>(monthly average of daily samples) | 0.0005 mg/l<br>(above background) |                       | BS EN 17852                |                                      |   |                            |
| SWTP3          | Cadmium and its compounds, expressed as cadmium (Total Cd)<br>(monthly average of daily samples) | 0.0002 mg/l<br>(above background) |                       | BS 6068-2.89               |                                      |   |                            |

| Emission Point | Substance / Parameter   | Emission Limit Value | Result <sup>[1]</sup>            | Test Method <sup>[2]</sup> | Sample Date and Times <sup>[3]</sup> | Accreditation/ Certification <sup>[4]</sup> | Uncertainty <sup>[5]</sup> |
|----------------|---|----------------------|----------------------------------|----------------------------|--------------------------------------|---|----------------------------|
| W2             | Dissolved oxygen (minimum value)  | -                    | Instrument No Longer Operational | EN 25814                   |                                      |   |                            |
| W2             | Dissolved oxygen (maximum value)  | -                    |                                  | EN 25814                   |                                      |   |                            |
| W2             | Dissolved oxygen (average value)  | -                    |                                  | EN 25814                   |                                      |   |                            |
| SWTP1          | pH (average value)  | -                    | Insufficient Running             | BS 6068-2.50:1995          |                                      |   |                            |
| SWTP1          | Flow (average daily value)  | -                    |                                  | BS3680                     |                                      |   |                            |
| SWTP1          | Flow (Total Monthly Volume)   | -                    |                                  | BS3680                     |                                      |   |                            |
| SWTP1          | Arsenic and its compounds, expressed as arsenic (Total As)                              | -                    |                                  | BS 6068                    |                                      |   |                            |
| SWTP1          | Lead and its compounds, expressed as lead (Total Pb) (monthly average of daily samples) | 0.004 mg/l           |                                  | BS 6068                    |                                      |   |                            |
|                |   | (above background)   |                                  |                            |                                      |   |                            |
| SWTP1          | Chromium and its compounds, expressed as chromium (Total Cr VI)                         | -                    |                                  | BS 6068                    |                                      |   |                            |
| SWTP1          | Zinc and its compounds, expressed as zinc (Total Zn) (monthly average of daily samples) | 0.01 mg/l            |                                  | BS 6068                    |                                      |   |                            |
|                |   | (above background)   |                                  |                            |                                      |   |                            |
| SWTP1          | Selenium and its compounds, expressed as selenium (Total Se)                            | -                    |                                  | BS 6068                    |                                      |   |                            |

| Emission Point | Substance / Parameter   | Emission Limit Value             | Result <sup>[1]</sup> | Test Method <sup>[2]</sup> | Sample Date and Times <sup>[3]</sup> | Accreditation/ Certification <sup>[4]</sup> | Uncertainty <sup>[5]</sup> |
|----------------|---|----------------------------------|-----------------------|----------------------------|--------------------------------------|---|----------------------------|
| SWTP2          | pH (average value)  | -                                | Insufficient Running  | BS 6068-2.50:1995          |                                      |   |                            |
| SWTP2          | Flow (average daily value)  | -                                |                       | BS3680                     |                                      |   |                            |
| SWTP2          | Flow (Total Monthly Volume)   | -                                |                       | BS3680                     |                                      |   |                            |
| SWTP2          | Arsenic and its compounds, expressed as arsenic (Total As)                              | -                                |                       | BS 6068                    |                                      |   |                            |
| SWTP2          | Lead and its compounds, expressed as lead (Total Pb) (monthly average of daily samples) | 0.004 mg/l<br>(above background) |                       | BS 6068                    |                                      |   |                            |
| SWTP2          | Chromium and its compounds, expressed as chromium (Total Cr VI)                         | -                                |                       | BS 6068                    |                                      |   |                            |
| SWTP2          | Zinc and its compounds, expressed as zinc (Total Zn) (monthly average of daily samples) | 0.01 mg/l<br>(above background)  |                       | BS 6068                    |                                      |   |                            |
| SWTP2          | Selenium and its compounds, expressed as selenium (Total Se)                            | -                                |                       | BS 6068                    |                                      |   |                            |

| Emission Point | Substance / Parameter   | Emission Limit Value | Result <sup>[1]</sup> | Test Method <sup>[2]</sup> | Sample Date and Times <sup>[3]</sup> | Accreditation/ Certification <sup>[4]</sup> | Uncertainty <sup>[5]</sup> |
|----------------|---|----------------------|-----------------------|----------------------------|--------------------------------------|---|----------------------------|
| SWTP3          | pH (average value)  | -                    | Insufficient Running  | BS 6068-2.50:1995          |                                      |   |                            |
| SWTP3          | Flow (average daily value)  | -                    |                       | BS3680                     |                                      |   |                            |
| SWTP3          | Flow (Total Monthly Volume)   | -                    |                       | BS3680                     |                                      |   |                            |
| SWTP3          | Arsenic and its compounds, expressed as arsenic (Total As)                              | -                    |                       | BS 6068                    |                                      |   |                            |
| SWTP3          | Lead and its compounds, expressed as lead (Total Pb) (monthly average of daily samples) | 0.004 mg/l           |                       | BS 6068                    |                                      |   |                            |
|                |   | (above background)   |                       |                            |                                      |   |                            |
| SWTP3          | Chromium and its compounds, expressed as chromium (Total Cr VI)                         | -                    |                       | BS 6068                    |                                      |   |                            |
| SWTP3          | Zinc and its compounds, expressed as zinc (Total Zn) (monthly average of daily samples) | 0.01 mg/l            |                       | BS 6068                    |                                      |   |                            |
|                |   | (above background)   |                       |                            |                                      |   |                            |
| SWTP3          | Selenium and its compounds, expressed as selenium (Total Se)                            | -                    |                       | BS 6068                    |                                      |   |                            |

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.


[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

[6] The emission limit values for all substances is expressed as a maximum individual value, unless otherwise stated.

Signed  .....

Date 23/03/2021

(authorised to sign as representative of the Operator)