Reporting of Emissions to Water (other than to Sewer) for the period from …1st February 2019 to 28th February 2019.

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 [1]		Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty[5]
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	26.24	mg/l	BS EN 872:2005			
W2	Ammoniacal nitrogen	0.1 mg/l (above background)	0.000 (above background)	mg/l	BS6068-2.11			
W2	Differential temperature (rolling 98th percentile)	13.5°C	5.4	°C	ISO, BS EN or SCA Blue Book Method			
W2	Differential temperature (average daily value)	-	1.2	°C	ISO, BS EN or SCA Blue Book Method			
W2	Differential temperature (maximum daily value)	-	11.9	°C	ISO, BS EN or SCA Blue Book Method			
W2	Total hydrocarbon oil	3 mg/l	0.230	mg/l	EN ISO 9377-2			
W2	pH (minimum value)	5.6	6.1		BS 6068-2.50:1995			
W2	pH (maximum 95%ile value)	8.5	8.0		BS 6068-2.50:1995			
W2	pH (minimum 95%ile value)	5.8	6.1		BS 6068-2.50:1995			
W2	pH (average value)	-	7.5		BS 6068-2.50:1995			

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty[5]
SWTP1	Mercury and its compounds, expressed as mercury (Total Hg) (monthly average of daily samples)	0.0005 mg/l (above background)	0.0001 mg/l (above background)	BS EN 17852			
SWTP1	Cadmium and its compounds, expressed as cadmium (Total Cd) (monthly average of daily samples)	0.0002 mg/l (above background)	0.00000 mg/l (above background)	BS 6068-2.89			
SWTP2	Mercury and its compounds, expressed as mercury (Total Hg) (monthly average of daily samples)	0.0005 mg/l (above background)	0.0001 mg/l (above background)	BS EN 17852			
SWTP2	Cadmium and its compounds, expressed as cadmium (Total Cd) (monthly average of daily samples)	0.0002 mg/l (above background)	0.00002 mg/l (above background)	BS 6068-2.89			
SWTP3	Mercury and its compounds, expressed as mercury (Total Hg) (monthly average of daily samples)	0.0005 mg/l (above background)	Insufficient Running	BS EN 17852			
SWTP3	Cadmium and its compounds, expressed as cadmium (Total Cd) (monthly average of daily samples)	0.0002 mg/l (above background)		BS 6068-2.89			

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]		Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty[5]
W2	Dissolved oxygen (minimum value)	-	6.6	mg/l	EN 25814			
W2	Dissolved oxygen (maximum value)	-	11.2	mg/l	EN 25814			
W2	Dissolved oxygen (average value)	-	9.2	mg/l	EN 25814			
SWTP1	pH (average value)	-	5.6		BS 6068-2.50:1995			
SWTP1	Flow (average daily value)	-	10213	m3/h	BS3680			
SWTP1	Flow (Total Monthly Volume)	-	2430859	m3	BS3680			
SWTP1	Arsenic and its compounds, expressed as arsenic (Total As)	-	0.0035	mg/l	BS 6068			
SWTP1	Lead and its compounds, expressed as lead (Total Pb) (monthly average of daily samples)	0.004 mg/l	0.0000	mg/l	BS 6068			
		(above background)	(above background)					
SWTP1	Chromium and its compounds, expressed as chromium (Total Cr VI)	-	0.0300	mg/l	BS 6068			
SWTP1	Zinc and its compounds, expressed as zinc (Total Zn) (monthly average of daily samples)	0.01 mg/l	0.000	mg/l	BS 6068			
		(above background)	(above background)					
SWTP1	Selenium and its compounds, expressed as selenium (Total Se)	-	0.0003	mg/l	BS 6068			

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]		Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty[5]
SWTP2	pH (average value)	-	5.6		BS 6068-2.50:1995			
SWTP2	Flow (average daily value)	-	9463	m3/h	BS3680			
SWTP2	Flow (Total Monthly Volume)	-	2377406	m3	BS3680			
SWTP2	Arsenic and its compounds, expressed as arsenic (Total As)	-	0.0046	mg/l	BS 6068			
SWTP2	Lead and its compounds, expressed as lead (Total Pb) (monthly average of daily samples)	0.004 mg/l (above background)	0.0000 (above background)	mg/l	BS 6068			
SWTP2	Chromium and its compounds, expressed as chromium (Total Cr VI)	-	0.0300	mg/l	BS 6068			
SWTP2	Zinc and its compounds, expressed as zinc (Total Zn) (monthly average of daily samples)	0.01 mg/l (above background)	0.000 (above background)	mg/l	BS 6068			
SWTP2	Selenium and its compounds, expressed as selenium (Total Se)	-	0.0003	mg/l	BS 6068			

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]		Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty[5]
SWTP3	pH (average value)	-	Insufficient Running		BS 6068-2.50:1995			
SWTP3	Flow (average daily value)	-	1891	m3/h	BS3680			
SWTP3	Flow (Total Monthly Volume)	-	734439	m3	BS3680			
SWTP3	Arsenic and its compounds, expressed as arsenic (Total As)	-	Insufficient Running		BS 6068			
SWTP3	Lead and its compounds, expressed as lead (Total Pb) (monthly average of daily samples)	0.004 mg/l (above background)			BS 6068			
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 (above background)			BS 6068			
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.

R.T. Powell

Signed …… Date 28/03/2019 (authorised to sign as representative of the Operator)