Reporting of Emission to Groundwater for the period from ...1st January 2020 to 30th June 2020.

Operator : RWE Generation UK plc **Form:** Groundwater1

Location: Aberthaw Power Station

Permit/Variation Number: RP3133LD

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH12	Aluminium, Dissolved		<10 µg/l		03/03/2020	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		<1 µg/l				
	Boron, Dissolved		310 µg/l				
	Cadmium, Dissolved		<0.1 µg/l				
	Calcium, Dissolved		88 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		<1 µg/l				
	Magnesium, Dissolved		52 mg/l				
	Manganese, Dissolved		12 µg/l				
	Molybdenum, Dissolved		4 µg/l				
	Nickel, Dissolved		<1 µg/l				
	Selenium Dissolved		0.00 µg/l				
	Vanadium, Dissolved		<2 µg/l				
	Zinc, Dissolved		14 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		340 mg/l				
	Conductivity at 20C		2500 uS/cm				
	Potassium, Dissolved		16 mg/l				
	Sodium, Dissolved		410 mg/l				
	Sulphate, Dissolved as SO4		190 mg/l				
	Nitrogen : Total Oxidised as N		0.26 mg/l				
	Chloride		540 mg/l				
	Fluoride		0.31 mg/l				
	Ammoniacal Nitrogen as N		0.25 mg/l				
	Carbon, Organic : Total as C :- {TOC}		1.4 mg/l				
	pH		7.60 pH Units				

BH12	Aluminium, Dissolved		Unable to collect samples or send off for analysis due to Covid-19		Unable to collect samples or send off for analysis due to Covid-19	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved						
	Arsenic Dissolved						
	Boron, Dissolved						
	Cadmium, Dissolved						
	Calcium, Dissolved						
	Chromium, Dissolved						
	Copper, Dissolved						
	Magnesium, Dissolved						
	Manganese, Dissolved						
	Molybdenum, Dissolved						
	Nickel, Dissolved						
	Selenium Dissolved						
	Vanadium, Dissolved						
	Zinc, Dissolved						
	Mercury, Dissolved						
	Alkalinity to pH 4.5 as CaCO3						
	Conductivity at 20C						
	Potassium, Dissolved						
	Sodium, Dissolved						
	Sulphate, Dissolved as SO4						
	Nitrogen : Total Oxidised as N						
	Chloride						
	Fluoride						
	Ammoniacal Nitrogen as N						
	Carbon, Organic : Total as C :- {TOC}						
	pH						

BH13	Aluminium, Dissolved		<10 µg/l		03/03/2020	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		<1 µg/l				
	Boron, Dissolved		140 µg/l				
	Cadmium, Dissolved		<0.1 µg/l				
	Calcium, Dissolved		77 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		<1 µg/l				
	Magnesium, Dissolved		31 mg/l				
	Manganese, Dissolved		<10 µg/l				
	Molybdenum, Dissolved		6 µg/l				
	Nickel, Dissolved		1.2 µg/l				
	Selenium Dissolved		0.00 µg/l				
	Vanadium, Dissolved		<2 µg/l				
	Zinc, Dissolved		<5 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		330 mg/l				
	Conductivity at 20C		1300 uS/cm				
	Potassium, Dissolved		6 mg/l				
	Sodium, Dissolved		200 mg/l				
	Sulphate, Dissolved as SO4		96 mg/l				
	Nitrogen : Total Oxidised as N		0.44 mg/l				
	Chloride		210 mg/l				
	Fluoride		0.24 mg/l				
	Ammoniacal Nitrogen as N		<0.030 mg/l				
	Carbon, Organic : Total as C :- {TOC}		1.6 mg/l				
	pH		7.70 pH Units				

BH13	Aluminium, Dissolved		Unable to collect samples or send off for analysis due to Covid-19		Unable to collect samples or send off for analysis due to Covid-19	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved						
	Arsenic Dissolved						
	Boron, Dissolved						
	Cadmium, Dissolved						
	Calcium, Dissolved						
	Chromium, Dissolved						
	Copper, Dissolved						
	Magnesium, Dissolved						
	Manganese, Dissolved						
	Molybdenum, Dissolved						
	Nickel, Dissolved						
	Selenium Dissolved						
	Vanadium, Dissolved						
	Zinc, Dissolved						
	Mercury, Dissolved						
	Alkalinity to pH 4.5 as CaCO3						
	Conductivity at 20C						
	Potassium, Dissolved						
	Sodium, Dissolved						
	Sulphate, Dissolved as SO4						
	Nitrogen : Total Oxidised as N						
	Chloride						
	Fluoride						
	Ammoniacal Nitrogen as N						
	Carbon, Organic : Total as C :- {TOC}						
	pH						

[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 16/07/2020 (authorised to sign as representative of the Operator)