

Reporting of Emission to Groundwater for the period of November 2024

Operator: CCR Energy Ltd

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		26/11/2024	Sampling WSP / Testing ALS	
	Antimony, Dissolved		<1 µg/L				
	Arsenic, Dissolved		0.754 µg/L				
	Boron, Dissolved		151 µg/L				
	Cadmium, Dissolved		<0.08 µg/L				
	Calcium, Dissolved		97300 µg/L				
	Chromium, Dissolved		<1 µg/L				
	Hexavalent Chromium		<30 µg/L				
	Copper, Dissolved		0.815 µg/L				
	Magnesium, Dissolved		13400 µg/L				
	Manganese, Dissolved		<3 µg/L				
	Molybdenum, Dissolved		3.16 µg/L				
	Nickel, Dissolved		0.761 µg/L				
	Selenium Dissolved		1.96 µg/L				
Vanadium, Dissolved		<1 µg/L					

Mercury, Dissolved		<0.01 µg/L				
Alkalinity to pH 4.5 as CaCO ₃		303000 µg/L				
Potassium, Dissolved		6540 µg/L				
Sulphate, Dissolved as SO ₄		44100 µg/L				
Nitrogen: Total Oxidised as N		2150 µg/L				
Chloride		39900 µg/L				
Fluoride		<500 µg/L				
Ammoniacal Nitrogen as N		<200 µg/L				
Carbon, Organic: Total as C		<3000 µg/L				
Electrical conductivity		799 µS/cm		Field measure ments		
Temperature		12.0 °C				
Dissolved oxygen		6.57 mg/L				
pH		7.16				
Oxidation reduction potential		129 mV				
Groundwater level		4.31 mAOD				

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
BH13	Aluminium, Dissolved		<10 µg/L		26/11/2024	Sampling WSP / Testing ALS	
	Antimony, Dissolved		<1 µg/L				
	Arsenic, Dissolved		<0.5 µg/L				
	Boron, Dissolved		92.7 µg/L				
	Cadmium, Dissolved		<0.08 µg/L				
	Calcium, Dissolved		76600 µg/L				
	Chromium, Dissolved		2.33 µg/L				
	Hexavalent Chromium		<30 µg/L				
	Copper, Dissolved		<0.3 µg/L				
	Magnesium, Dissolved		14700 µg/L				
	Manganese, Dissolved		3.01 µg/L				
	Molybdenum, Dissolved		<3 µg/L				
	Nickel, Dissolved		2.24 µg/L				
	Selenium Dissolved		1.22 µg/L				
	Vanadium, Dissolved		<1 µg/L				
	Mercury, Dissolved		<0.01 µg/L				
	Alkalinity to pH 4.5 as CaCO ₃		304000 µg/L				
	Potassium, Dissolved		5560 µg/L				
Sulphate, Dissolved as SO ₄		40900 µg/L					

	Nitrogen: Total Oxidised as N		2080 µg/L				
	Chloride		60100 µg/L				
	Fluoride		<500 µg/L				
	Ammoniacal Nitrogen as N		<200 µg/L				
	Carbon, Organic: Total as C		<3000 µg/L				
	Electrical conductivity		852 µS/cm	Field measure ments			
	Temperature		12.5 °C				
	Dissolved oxygen		1.24 mg/L				
	pH		7.25				
	Oxidation reduction potential		113 mV				
	Groundwater level		5.27 mAOD				

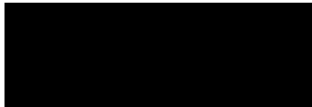
[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum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

Signed 
(authorised to sign as representative of the Operator)

Date.....12/12/2024.....