

Permit/Variation Number: BP3339BH

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>
SW12	Aluminium, Dissolved		<10 µg/l		12/08/2015	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		<1 µg/l				
	Boron, Dissolved		442 µg/l				
	Cadmium, Dissolved		<0.1 µg/l				
	Calcium, Dissolved		208 mg/l				
	Chromium, Dissolved		3.03 µg/l				
	Copper, Dissolved		1.23 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		47.8 mg/l				
	Manganese, Dissolved		<10 µg/l				
	Molybdenum, Dissolved		1060 µg/l				
	Nickel, Dissolved		3.91 µg/l				
	Selenium Dissolved		1.64 µg/l				
	Vanadium, Dissolved		<2 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		86 mg/l				
	Electrical Conductivity at 20C		2690 mS/cm				
	Potassium, Dissolved		32.5 mg/l				
	Sodium, Dissolved		329 mg/l				
Sulphate, Dissolved		501 mg/l					
Total Oxidised Nitrogen		3.44 mg/l					
Chloride		593 mg/l					
Fluoride		0.234 mg/l					
Ammoniacal Nitrogen		0.042 mg/l					
Total Organic Carbon		3.7 mg/l					
Nitrate		0.103 mg/l					
pH		8.17 pH Units					

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>
SW12	Aluminium, Dissolved		16.4 µg/l		02/12/2015	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		3.39 µg/l				
	Boron, Dissolved		459 µg/l				
	Cadmium, Dissolved		0.328 µg/l				
	Calcium, Dissolved		203 mg/l				
	Chromium, Dissolved		16 µg/l				
	Copper, Dissolved		1.5 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		34.5 mg/l				
	Manganese, Dissolved		<10 µg/l				
	Molybdenum, Dissolved		1110 µg/l				
	Nickel, Dissolved		8.99 µg/l				
	Selenium Dissolved		1.56 µg/l				
	Vanadium, Dissolved		4.28 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		192 mg/l				
	Electrical Conductivity at 20C		2490 mS/cm				
	Potassium, Dissolved		30.8 mg/l				
	Sodium, Dissolved		291 mg/l				
	Sulphate, Dissolved		375 mg/l				
	Total Oxidised Nitrogen		11.9 mg/l				
	Chloride		515 mg/l				
	Fluoride		0.192 mg/l				
	Ammoniacal Nitrogen		0.557 mg/l				
	Total Organic Carbon		1.2 mg/l				
	Nitrate		11.3 mg/l				
	pH		8.09 pH Units				

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>
Settlement Ponds	Aluminium, Dissolved		56 µg/l		02/07/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		1.48 µg/l				
	Arsenic Dissolved	50	2.01 µg/l				
	Boron, Dissolved	2000	554 µg/l				
	Cadmium, Dissolved	5	0.393 µg/l				
	Calcium, Dissolved		250 mg/l				
	Chromium, Dissolved	50	9.61 µg/l				
	Copper, Dissolved		3.78 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		51.6 mg/l				
	Manganese, Dissolved		<10 µg/l				
	Molybdenum, Dissolved		2240 µg/l				
	Nickel, Dissolved		3.97 µg/l				
	Selenium Dissolved		3.66 µg/l				
	Vanadium, Dissolved	60	3.99 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		44 mg/l				
	Electrical Conductivity at 20C		3760 mS/cm				
	Potassium, Dissolved		47 mg/l				
	Sodium, Dissolved		534 mg/l				
	Sulphate, Dissolved	400	528 mg/l*				
	Total Oxidised Nitrogen		9.5 mg/l				
	Chloride		926 mg/l				
	Fluoride		0.177 mg/l				
	Ammoniacal Nitrogen	0.6	<0.500 mg/l				
	Total Organic Carbon		3.8 mg/l				
	Nitrate		<9.50 mg/l				
	pH	<9	7.95 pH Units				

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>
Settlement Ponds	Aluminium, Dissolved		13 µg/l		04/08/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved	50	2.29 µg/l				
	Boron, Dissolved	2000	746 µg/l				
	Cadmium, Dissolved	5	0.834 µg/l				
	Calcium, Dissolved		309 mg/l				
	Chromium, Dissolved	50	23.8 µg/l				
	Copper, Dissolved		2.48 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		54.5 mg/l				
	Manganese, Dissolved		<10 µg/l				
	Molybdenum, Dissolved		2180 µg/l				
	Nickel, Dissolved		10.4 µg/l				
	Selenium Dissolved		1.57 µg/l				
	Vanadium, Dissolved	60	4.52 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		86 mg/l				
	Electrical Conductivity at 20C		4400 mS/cm				
	Potassium, Dissolved		49.9 mg/l				
	Sodium, Dissolved		580 mg/l				
	Sulphate, Dissolved	400	673 mg/l*				
	Total Oxidised Nitrogen		21.2 mg/l				
	Chloride		1070 mg/l				
	Fluoride		0.183 mg/l				
	Ammoniacal Nitrogen	0.6	<0.500 mg/l				
	Total Organic Carbon		4.9 mg/l				
	Nitrate		20.3 mg/l				
	pH	<9	7.97 pH Units				

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>
Settlement Ponds	Aluminium, Dissolved		<10 µg/l		02/09/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved	50	2.55 µg/l				
	Boron, Dissolved	2000	634 µg/l				
	Cadmium, Dissolved	5	0.204 µg/l				
	Calcium, Dissolved		288 mg/l				
	Chromium, Dissolved	50	21.8 µg/l				
	Copper, Dissolved		2.3 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		51.2 mg/l				
	Manganese, Dissolved		<10 µg/l				
	Molybdenum, Dissolved		1730 µg/l				
	Nickel, Dissolved		13.1 µg/l				
	Selenium Dissolved		1.66 µg/l				
	Vanadium, Dissolved	60	6.22 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		90 mg/l				
	Electrical Conductivity at 20C		3710 mS/cm				
	Potassium, Dissolved		44.7 mg/l				
	Sodium, Dissolved		488 mg/l				
	Sulphate, Dissolved	400	624 mg/l*				
	Total Oxidised Nitrogen		16.1 mg/l				
	Chloride		902 mg/l				
	Fluoride		0.177 mg/l				
	Ammoniacal Nitrogen	0.6	<0.500 mg/l				
	Total Organic Carbon		4.3 mg/l				
	Nitrate		14.8 mg/l				
	pH	<9	7.91 pH Units				

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>
Settlement Ponds	Aluminium, Dissolved		14 µg/l		01/10/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved	50	1.2 µg/l				
	Boron, Dissolved	2000	547 µg/l				
	Cadmium, Dissolved	5	0.793 µg/l				
	Calcium, Dissolved		256 mg/l				
	Chromium, Dissolved	50	20.3 µg/l				
	Copper, Dissolved		5 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		44.1 mg/l				
	Manganese, Dissolved		<10 µg/l				
	Molybdenum, Dissolved		1640 µg/l				
	Nickel, Dissolved		9.16 µg/l				
	Selenium Dissolved		1.36 µg/l				
	Vanadium, Dissolved	60	2.92 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		126 mg/l				
	Electrical Conductivity at 20C		3530 mS/cm				
	Potassium, Dissolved		44.4 mg/l				
	Sodium, Dissolved		477 mg/l				
	Sulphate, Dissolved	400	516 mg/l*				
	Total Oxidised Nitrogen		14.9 mg/l				
	Chloride		863 mg/l				
	Fluoride		0.174 mg/l				
	Ammoniacal Nitrogen	0.6	<0.500 mg/l				
	Total Organic Carbon		3.4 mg/l				
	Nitrate		14 mg/l				
	pH	<9	7.94 pH Units				

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>
Settlement Ponds	Aluminium, Dissolved		24.3 µg/l		02/11/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		1.04 µg/l				
	Arsenic Dissolved	50	9.82 µg/l				
	Boron, Dissolved	2000	604 µg/l				
	Cadmium, Dissolved	5	0.85 µg/l				
	Calcium, Dissolved		296 mg/l				
	Chromium, Dissolved	50	23.5 µg/l				
	Copper, Dissolved		4.59 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		48.0 mg/l				
	Manganese, Dissolved		11.7 µg/l				
	Molybdenum, Dissolved		1980 µg/l				
	Nickel, Dissolved		11.30 µg/l				
	Selenium Dissolved		3.32 µg/l				
	Vanadium, Dissolved	60	9.29 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		185 mg/l				
	Electrical Conductivity at 20C		3950 mS/cm				
	Potassium, Dissolved		49.2 mg/l				
	Sodium, Dissolved		523 mg/l				
	Sulphate, Dissolved	400	510 mg/l*				
	Total Oxidised Nitrogen		18.5 mg/l				
	Chloride		921 mg/l				
	Fluoride		0.2 mg/l				
	Ammoniacal Nitrogen	0.6	1.21 mg/l				
	Total Organic Carbon		2.30 mg/l				
	Nitrate		17.40 mg/l				
	pH	<9	8.07 pH Units				

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>
Settlement Ponds	Aluminium, Dissolved		14.7 µg/l		01/12/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved	50	3.82 µg/l				
	Boron, Dissolved	2000	464 µg/l				
	Cadmium, Dissolved	5	0.363 µg/l				
	Calcium, Dissolved		197 mg/l				
	Chromium, Dissolved	50	17.2 µg/l				
	Copper, Dissolved		2.02 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		32.6 mg/l				
	Manganese, Dissolved		<10 µg/l				
	Molybdenum, Dissolved		1240 µg/l				
	Nickel, Dissolved		7.85 µg/l				
	Selenium Dissolved		1.76 µg/l				
	Vanadium, Dissolved	60	4.85 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		190 mg/l				
	Electrical Conductivity at 20C		2580 mS/cm				
	Potassium, Dissolved		32 mg/l				
	Sodium, Dissolved		323 mg/l				
	Sulphate, Dissolved	400	367 mg/l				
	Total Oxidised Nitrogen		14 mg/l				
	Chloride		556 mg/l				
	Fluoride		0.182 mg/l				
	Ammoniacal Nitrogen	0.6	0.59 mg/l				
	Total Organic Carbon		1.8 mg/l				
	Nitrate		13.4 mg/l				
	pH	<9	8.10 pH Units				



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>
DP2	Aluminium, Dissolved		<10 µg/l		02/07/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		<1 µg/l				
	Boron, Dissolved		600 µg/l				
	Cadmium, Dissolved		0.42 µg/l				
	Calcium, Dissolved		390 mg/l				
	Chromium, Dissolved		11.6 µg/l				
	Copper, Dissolved		2.48 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		59.1 mg/l				
	Manganese, Dissolved		24.4 µg/l				
	Molybdenum, Dissolved		2330 µg/l				
	Nickel, Dissolved		23.2 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<2 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		257 mg/l				
	Electrical Conductivity at 20C		4710 mS/cm				
	Potassium, Dissolved		49 mg/l				
	Sodium, Dissolved		633 mg/l				
	Sulphate, Dissolved		532 mg/l				
	Total Oxidised Nitrogen		25 mg/l				
	Chloride		1140 mg/l				
	Fluoride		0.198 mg/l				
	Ammoniacal Nitrogen		1.01 mg/l				
	Total Organic Carbon		1 mg/l				
	Nitrate		23.9 mg/l				
	pH		7.62 pH Units				

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>
DP2	Aluminium, Dissolved		<10 µg/l		04/08/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		1.42 µg/l				
	Boron, Dissolved		768 µg/l				
	Cadmium, Dissolved		0.925 µg/l				
	Calcium, Dissolved		394 mg/l				
	Chromium, Dissolved		15.6 µg/l				
	Copper, Dissolved		2.14 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		62.4 mg/l				
	Manganese, Dissolved		20 µg/l				
	Molybdenum, Dissolved		2270 µg/l				
	Nickel, Dissolved		23.4 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		2.61 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		248 mg/l				
	Electrical Conductivity at 20C		5010 mS/cm				
	Potassium, Dissolved		51.9 mg/l				
	Sodium, Dissolved		647 mg/l				
	Sulphate, Dissolved		724 mg/l				
	Total Oxidised Nitrogen		25.4 mg/l				
	Chloride		1210 mg/l				
	Fluoride		0.196 mg/l				
	Ammoniacal Nitrogen		1.59 mg/l				
	Total Organic Carbon		1.2 mg/l				
	Nitrate		23.4 mg/l				
	pH		7.64 pH Units				

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DP2	Aluminium, Dissolved		<10 µg/l		02/09/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		1.09 µg/l				
	Boron, Dissolved		549 µg/l				
	Cadmium, Dissolved		0.192 µg/l				
	Calcium, Dissolved		284 mg/l				
	Chromium, Dissolved		8.06 µg/l				
	Copper, Dissolved		2.33 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		51.6 mg/l				
	Manganese, Dissolved		19.5 µg/l				
	Molybdenum, Dissolved		1510 µg/l				
	Nickel, Dissolved		20.1 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<2 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		267 mg/l				
	Electrical Conductivity at 20C		3300 mS/cm				
	Potassium, Dissolved		36.8 mg/l				
	Sodium, Dissolved		409 mg/l				
	Sulphate, Dissolved		574 mg/l				
	Total Oxidised Nitrogen		14.8 mg/l				
	Chloride		705 mg/l				
	Fluoride		0.21 mg/l				
	Ammoniacal Nitrogen		0.79 mg/l				
	Total Organic Carbon		1.4 mg/l				
	Nitrate		13.9 mg/l				
	pH		7.43 pH Units				

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>
DP2	Aluminium, Dissolved		<10 µg/l		01/10/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		<1 µg/l				
	Boron, Dissolved		381 µg/l				
	Cadmium, Dissolved		0.583 µg/l				
	Calcium, Dissolved		238 mg/l				
	Chromium, Dissolved		8.11 µg/l				
	Copper, Dissolved		4.22 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		40 mg/l				
	Manganese, Dissolved		13.9 µg/l				
	Molybdenum, Dissolved		1110 µg/l				
	Nickel, Dissolved		15.6 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<2 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		270 mg/l				
	Electrical Conductivity at 20C		2670 mS/cm				
	Potassium, Dissolved		27.4 mg/l				
	Sodium, Dissolved		313 mg/l				
	Sulphate, Dissolved		358 mg/l				
	Total Oxidised Nitrogen		14.2 mg/l				
	Chloride		537 mg/l				
	Fluoride		0.214 mg/l				
	Ammoniacal Nitrogen		1.13 mg/l				
	Total Organic Carbon		<1.00 mg/l				
	Nitrate		13 mg/l				
	pH		7.32 pH Units				

Substance/ Emission point 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>
DP2	Aluminium, Dissolved		<10 µg/l		02/11/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		1.15 µg/l				
	Boron, Dissolved		426 µg/l				
	Cadmium, Dissolved		0.724 µg/l				
	Calcium, Dissolved		297 mg/l				
	Chromium, Dissolved		6.85 µg/l				
	Copper, Dissolved		3.78 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		44.4 mg/l				
	Manganese, Dissolved		31.6 µg/l				
	Molybdenum, Dissolved		1610 µg/l				
	Nickel, Dissolved		16.9 µg/l				
	Selenium Dissolved		1.14 µg/l				
	Vanadium, Dissolved		<2 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO3		256 mg/l				
	Electrical Conductivity at 20C		3520 mS/cm				
	Potassium, Dissolved		33.7 mg/l				
	Sodium, Dissolved		440 mg/l				
	Sulphate, Dissolved		414 mg/l				
	Total Oxidised Nitrogen		19.5 mg/l				
	Chloride		806 mg/l				
	Fluoride		0.194 mg/l				
	Ammoniacal Nitrogen		0.73 mg/l				
	Total Organic Carbon		1.4 mg/l				
	Nitrate		18.6 mg/l				
	pH		7.37 pH Units				

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>
DP2	Aluminium, Dissolved		<10 µg/l		01/12/2015	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		1.87 µg/l				
	Boron, Dissolved		331 µg/l				
	Cadmium, Dissolved		0.205 µg/l				
	Calcium, Dissolved		198 mg/l				
	Chromium, Dissolved		7.66 µg/l				
	Copper, Dissolved		2.21 µg/l				
	Iron, Dissolved		<30 µg/l				
	Magnesium, Dissolved		35.8 mg/l				
	Manganese, Dissolved		<10 µg/l				
	Molybdenum, Dissolved		653 µg/l				
	Nickel, Dissolved		12.4 µg/l				
	Selenium Dissolved		1.01 µg/l				
	Vanadium, Dissolved		2.6 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Total Alkalinity as CaCO <sub>3</sub>		248 mg/l				
	Electrical Conductivity at 20C		2000 mS/cm				
	Potassium, Dissolved		19.5 mg/l				
	Sodium, Dissolved		197 mg/l				
	Sulphate, Dissolved		317 mg/l				
	Total Oxidised Nitrogen		11 mg/l				
	Chloride		350 mg/l				
	Fluoride		0.202 mg/l				
	Ammoniacal Nitrogen		0.74 mg/l				
	Total Organic Carbon		1 mg/l				
	Nitrate		10.3 mg/l				
	pH		7.38 pH Units				

[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

[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

[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

[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.

\*Compliance limit exceeded for 3 consecutive sampling events after June 2015 (8 Elevated sampling events in total)  
Discussed with NRW and under investigation.

Signed A. Baister Date 14/01/16  
(authorised to sign as representative of the Operator)

Reporting of Emission to Groundwater for the period from ...1st July 2015...to...31st December 2015...

Operator : RWE Generation UK plc

Form: Groundwater1

Location: Abergaw Quarry Ash Disposal Site

Permit/Variation Number: BP3339BH

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>		
E09_01A	Aluminium, Dissolved		<10 ug/l		12/08/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved		<1 ug/l						
	Boron, Dissolved		<100 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		131 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		<1 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		5.51 mg/l						
	Manganese, Dissolved		<10 ug/l						
	Molybdenum, Dissolved		<3 ug/l						
	Nickel, Dissolved		<1 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		<2 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		278 mg/l						
	Electrical Conductivity at 20C		611 uS/cm						
	Potassium, Dissolved		1.25 mg/l						
	Sodium, Dissolved		16.1 mg/l						
	Sulphate, Dissolved		29.2 mg/l						
	Total Oxidised Nitrogen		3.18 mg/l						
	Chloride		27.1 mg/l						
	Fluoride		0.117 mg/l						
	Ammoniacal Nitrogen		0.03 mg/l						
	Total Organic Carbon		1.5 mg/l						
	pH		7.18 pH Units						
	Nitrate		<0.004 mg/l						
	Ionic Balance		3.79 %						
	Electrical Conductivity		740 µS/cm	Field Measurements					
	Temperature		13.30 deg C						
	Dissolved Oxygen		2.85 mg/l						
	pH		7.15 pH Units						
	Groundwater Level		25.84 mAOD						

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>		
E09_01A	Aluminium, Dissolved		<10 ug/l		03/12/2015	Sampling Amsac/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved		<1 ug/l						
	Boron, Dissolved		<100 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		131 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		<1 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		4.74 mg/l						
	Manganese, Dissolved		<10 ug/l						
	Molybdenum, Dissolved		<3 ug/l						
	Nickel, Dissolved		<1 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		<2 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		295 mg/l						
	Electrical Conductivity at 25C		677 uS/cm						
	Potassium, Dissolved		1.13 mg/l						
	Sodium, Dissolved		14.3 mg/l						
	Sulphate, Dissolved		30.2 mg/l						
	Total Oxidised Nitrogen		9.27 mg/l						
	Chloride		31.1 mg/l						
	Fluoride		0.09 mg/l						
	Ammoniacal Nitrogen		0.03 mg/l						
	Total Organic Carbon		1.2 mg/l						
	pH		7.28 pH Units						
	Nitrate		<9.27 mg/l						
	Ionic Balance		-3.13 %						
	Electrical Conductivity		740 µS/cm	Field Measurements					
	Temperature		13.30 deg C						
	Dissolved Oxygen		2.85 mg/l						
	pH		7.15 pH Units						
	Groundwater Level		28.02 mAOD						



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>
E09_01B	Aluminium, Dissolved		<10 ug/l		12/08/2015	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 ug/l				
	Arsenic Dissolved		<1 ug/l				
	Boron, Dissolved		<100 ug/l				
	Cadmium, Dissolved		<0.1 ug/l				
	Calcium, Dissolved		132 mg/l				
	Chromium, Dissolved		<0.5 ug/l				
	Copper, Dissolved		<1 ug/l				
	Iron, Dissolved		<30 ug/l				
	Magnesium, Dissolved		5.79 mg/l				
	Manganese, Dissolved		<10 ug/l				
	Molybdenum, Dissolved		<3 ug/l				
	Nickel, Dissolved		1.01 ug/l				
	Selenium Dissolved		<1 ug/l				
	Vanadium, Dissolved		<2 ug/l				
	Mercury, Dissolved		<0.01 ug/l				
	Total Alkalinity as CaCO3		283 mg/l				
	Electrical Conductivity at 25C		633 uS/cm				
	Potassium, Dissolved		1.18 mg/l				
	Sodium, Dissolved		15.8 mg/l				
	Sulphate, Dissolved		30.4 mg/l				
	Total Oxidised Nitrogen		3.09 mg/l				
	Chloride		27.6 mg/l				
	Fluoride		0.083 mg/l				
	Ammoniacal Nitrogen		0.03 mg/l				
	Total Organic Carbon		1.4 mg/l				
	pH		7.21 pH Units				
	Nitrate		<0.004 mg/l				
	Ionic Balance		3.25 %				
	Electrical Conductivity		750 uS/cm				
	Temperature		13.10 deg C				
	Dissolved Oxygen		3.14 mg/l				
	pH		7.16 pH Units				
	Groundwater Level		24.59 mAOD				

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>
E09_01B	Aluminium, Dissolved		<10 ug/l		02/12/2015	Sampling Aneec/Testing EA NLS	
	Antimony, Dissolved		<1 ug/l				
	Arsenic Dissolved		<1 ug/l				
	Boron, Dissolved		<100 ug/l				
	Cadmium, Dissolved		<0.1 ug/l				
	Calcium, Dissolved		126 mg/l				
	Chromium, Dissolved		<0.5 ug/l				
	Copper, Dissolved		<1 ug/l				
	Iron, Dissolved		<30 ug/l				
	Magnesium, Dissolved		5.57 mg/l				
	Manganese, Dissolved		<10 ug/l				
	Molybdenum, Dissolved		<3 ug/l				
	Nickel, Dissolved		<1 ug/l				
	Selenium Dissolved		<1 ug/l				
	Vanadium, Dissolved		<2 ug/l				
	Mercury, Dissolved		<0.01 ug/l				
	Total Alkalinity as CaCO3		294 mg/l				
	Electrical Conductivity at 25C		666 uS/cm				
	Potassium, Dissolved		1.21 mg/l				
	Sodium, Dissolved		14.2 mg/l				
	Sulphate, Dissolved		30.7 mg/l				
	Total Oxidised Nitrogen		8.32 mg/l				
	Chloride		29.6 mg/l				
	Fluoride		0.087 mg/l				
	Ammoniacal Nitrogen		0.03 mg/l				
	Total Organic Carbon		1 mg/l				
	pH		7.33 pH Units				
	Nitrate		<8.32 mg/l				
	Ionic Balance		-3.6 %				
	Electrical Conductivity		750 µS/cm				
	Temperature		13.10 deg C				
	Dissolved Oxygen		3.14 mg/l				
	pH		7.16 pH Units				
	Groundwater Level		27.08 mAOD				

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>		
E09_02A	Aluminium, Dissolved		<10 ug/l		12/08/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved		<1 ug/l						
	Boron, Dissolved		<100 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		125 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		<1 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		37.1 mg/l						
	Manganese, Dissolved		85.1 ug/l						
	Molybdenum, Dissolved		<3 ug/l						
	Nickel, Dissolved		1.3 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		<2 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		377 mg/l						
	Electrical Conductivity at 25C		774 uS/cm						
	Potassium, Dissolved		1.41 mg/l						
	Sodium, Dissolved		19.6 mg/l						
	Sulphate, Dissolved		51.9 mg/l						
	Total Oxidised Nitrogen		<0.2 mg/l						
	Chloride		33.1 mg/l						
	Fluoride		0.231 mg/l						
	Ammoniacal Nitrogen		0.756 mg/l						
	Total Organic Carbon		2.3 mg/l						
	pH		7.22 pH Units						
	Nitrate		0.0229 mg/l						
	Ionic Balance		3.18 %						
	Electrical Conductivity		930 µS/cm	Field Measurements					
	Temperature		14.30 deg C						
	Dissolved Oxygen		0.34 mg/l						
	pH		7.08 pH Units						
	Groundwater Level		27.49 mAOD						

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>		
E09_02A	Aluminium, Dissolved		<10 ug/l		03/12/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved		<1 ug/l						
	Boron, Dissolved		<100 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		161 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		<1 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		27 mg/l						
	Manganese, Dissolved		132 ug/l						
	Molybdenum, Dissolved		<3 ug/l						
	Nickel, Dissolved		2.58 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		<2 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		448 mg/l						
	Electrical Conductivity at 25C		926 uS/cm						
	Potassium, Dissolved		2.06 mg/l						
	Sodium, Dissolved		25.5 mg/l						
	Sulphate, Dissolved		67.5 mg/l						
	Total Oxidised Nitrogen		4.27 mg/l						
	Chloride		35 mg/l						
	Fluoride		0.19 mg/l						
	Ammoniacal Nitrogen		1.26 mg/l						
	Total Organic Carbon		2.8 mg/l						
	pH		7.07 pH Units						
	Nitrate		4.26 mg/l						
	Ionic Balance		-1.03 %						
	Electrical Conductivity		930 µS/cm	Field Measurements					
	Temperature		14.30 deg C						
	Dissolved Oxygen		0.34 mg/l						
	pH		7.08 pH Units						
	Groundwater Level			29.66 mAOD					

Emission point	Substance/ Parameter	Emission Limit Value	Result <sup>[1]</sup>	Test Method <sup>[3]</sup>	Sample Date and Times <sup>[2]</sup>	Accreditation/ Certification <sup>[4]</sup>	Uncertainty <sup>[5]</sup>		
E09_02B	Aluminium, Dissolved		<10 ug/l		12/08/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved		<1 ug/l						
	Boron, Dissolved		<100 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		229 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		278 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		17.2 mg/l						
	Manganese, Dissolved		20.2 ug/l						
	Molybdenum, Dissolved		<3 ug/l						
	Nickel, Dissolved		2.25 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		<2 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		403 mg/l						
	Electrical Conductivity at 25C		1100 uS/cm						
	Potassium, Dissolved		1.19 mg/l						
	Sodium, Dissolved		24.4 mg/l						
	Sulphate, Dissolved		99.6 mg/l						
	Total Oxidised Nitrogen		27.3 mg/l						
	Chloride		41.1 mg/l						
	Fluoride		0.078 mg/l						
	Ammoniacal Nitrogen		0.03 mg/l						
	Total Organic Carbon		4 mg/l						
	pH		6.93 pH Units						
	Nitrate		0.0777 mg/l						
	Ionic Balance		2.56 %						
	Electrical Conductivity		1280 µS/cm	Field Measurements					
	Temperature		14.00 deg C						
	Dissolved Oxygen		0.62 mg/l						
	pH		6.79 pH Units						
	Groundwater Level		27.48 mAOD						

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>		
E09_02B	Aluminium, Dissolved		<10 ug/l		03/12/2015	Sampling Arneac/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved		<1 ug/l						
	Boron, Dissolved		<100 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		233 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		2.99 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		10.7 mg/l						
	Manganese, Dissolved		<10 ug/l						
	Molybdenum, Dissolved		<3 ug/l						
	Nickel, Dissolved		2.13 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		<2 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		420 mg/l						
	Electrical Conductivity at 25C		1130 uS/cm						
	Potassium, Dissolved		0.94 mg/l						
	Sodium, Dissolved		22.8 mg/l						
	Sulphate, Dissolved		91.8 mg/l						
	Total Oxidised Nitrogen		31.5 mg/l						
	Chloride		40.2 mg/l						
	Fluoride		0.08 mg/l						
	Ammoniacal Nitrogen		0.03 mg/l						
	Total Organic Carbon		3.9 mg/l						
	pH		6.92 pH Units						
	Nitrate		31.5 mg/l						
	Ionic Balance		-0.621 %						
	Electrical Conductivity		1280 µS/cm	Field Measurements					
	Temperature		14.00 deg C						
	Dissolved Oxygen		0.62 mg/l						
	pH		6.79 pH Units						
	Groundwater Level		30.47 mAOD						

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>		
E05_03	Aluminium, Dissolved	50	<10 ug/l		12/08/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved	10	<1 ug/l						
	Boron, Dissolved	2800	1340 ug/l						
	Cadmium, Dissolved	0.4	0.156 ug/l						
	Calcium, Dissolved		209 mg/l						
	Chromium, Dissolved	50	0.77 ug/l						
	Copper, Dissolved		<1 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		142 mg/l						
	Manganese, Dissolved		71.5 ug/l						
	Molybdenum, Dissolved	50	284* ug/l						
	Nickel, Dissolved		1.55 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved	20	<2 ug/l						
	Mercury, Dissolved	0.03	<0.01 ug/l						
	Total Alkalinity as CaCO3		193 mg/l						
	Electrical Conductivity at 25C		3630 uS/cm						
	Potassium, Dissolved		7.66 mg/l						
	Sodium, Dissolved		363 mg/l						
	Sulphate, Dissolved	400	242 mg/l						
	Total Oxidised Nitrogen		<0.2 mg/l						
	Chloride		955 mg/l						
	Fluoride		1.29 mg/l						
	Ammoniacal Nitrogen	1.6	0.889 mg/l						
	Total Organic Carbon		<1 mg/l						
	pH		7.43 pH Units						
	Nitrate		<0.004 mg/l						
	Ionic Balance		3.08 %						
	Electrical Conductivity		3720 µS/cm	Field Measurements					
	Temperature		14.50 deg C						
	Dissolved Oxygen		0.37 mg/l						
	pH		7.39 pH Units						
	Groundwater Level		18.53 mAOD						

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>
E05_03	Aluminium, Dissolved	50	<10 ug/l		03/12/2015	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 ug/l				
	Arsenic Dissolved	10	<1 ug/l				
	Boron, Dissolved	2800	1440 ug/l				
	Cadmium, Dissolved	0.4	0.3 ug/l				
	Calcium, Dissolved		264 mg/l				
	Chromium, Dissolved	50	<0.5 ug/l				
	Copper, Dissolved		<1 ug/l				
	Iron, Dissolved		<30 ug/l				
	Magnesium, Dissolved		176 mg/l				
	Manganese, Dissolved		97.8 ug/l				
	Molybdenum, Dissolved	50	682* ug/l				
	Nickel, Dissolved		1.15 ug/l				
	Selenium Dissolved		<1 ug/l				
	Vanadium, Dissolved	20	<2 ug/l				
	Mercury, Dissolved	0.03	<0.01 ug/l				
	Total Alkalinity as CaCO3		183 mg/l				
	Electrical Conductivity at 25C		4330 uS/cm				
	Potassium, Dissolved		8.78 mg/l				
	Sodium, Dissolved		432 mg/l				
	Sulphate, Dissolved	400	324 mg/l				
	Total Oxidised Nitrogen		0.38 mg/l				
	Chloride		1220 mg/l				
	Fluoride		1.11 mg/l				
	Ammoniacal Nitrogen	1.6	1.24 mg/l				
	Total Organic Carbon		<1 mg/l				
	pH		7.42 pH Units				
Nitrate		0.371 mg/l					
Ionic Balance		2.02 %					
Electrical Conductivity		4490 µS/cm	Field Measurements				
Temperature		12.80 deg C					
Dissolved Oxygen		3.01 mg/l					
pH		7.29 pH Units					
Groundwater Level		18.67 mAOD					



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>
E05_04	Aluminium, Dissolved	50	<10 ug/l		13/08/2015	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 ug/l				
	Arsenic Dissolved	10	1.39 ug/l				
	Boron, Dissolved	2800	2180 ug/l				
	Cadmium, Dissolved	0.4	<0.1 ug/l				
	Calcium, Dissolved		5.80 mg/l				
	Chromium, Dissolved	50	<0.5 ug/l				
	Copper, Dissolved		<1 ug/l				
	Iron, Dissolved		<30 ug/l				
	Magnesium, Dissolved		4.18 mg/l				
	Manganese, Dissolved		<10 ug/l				
	Molybdenum, Dissolved	50	8.91 ug/l				
	Nickel, Dissolved		<1 ug/l				
	Selenium Dissolved		<1 ug/l				
	Vanadium, Dissolved	20	<2 ug/l				
	Mercury, Dissolved	0.03	<0.01 ug/l				
	Total Alkalinity as CaCO3		393 mg/l				
	Electrical Conductivity at 25C		928 uS/cm				
	Potassium, Dissolved		2.33 mg/l				
	Sodium, Dissolved		237 mg/l				
	Sulphate, Dissolved	400	78.10 mg/l				
	Total Oxidised Nitrogen		<0.2 mg/l				
	Chloride		44.60 mg/l				
	Fluoride		5.61 mg/l				
	Ammoniacal Nitrogen	1.6	0.51 mg/l				
	Total Organic Carbon		<1 mg/l				
	pH		8.53 pH Units				
	Nitrate		<0.004 mg/l				
	Ionic Balance		1.20 %				
	Electrical Conductivity		1110 µS/cm				
	Temperature		13.50 deg C				
	Dissolved Oxygen		0.54 mg/l	Field Measurements			
	pH		8.96 pH Units				
	Groundwater Level		19.11 mAOD				

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>
E05_04	Aluminium, Dissolved	50	<10 ug/l		03/12/2015	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 ug/l				
	Arsenic Dissolved	10	1.97 ug/l				
	Boron, Dissolved	2800	2170 ug/l				
	Cadmium, Dissolved	0.4	<0.1 ug/l				
	Calcium, Dissolved		5.22 mg/l				
	Chromium, Dissolved	50	<0.5 ug/l				
	Copper, Dissolved		<1 ug/l				
	Iron, Dissolved		<30 ug/l				
	Magnesium, Dissolved		3.82 mg/l				
	Manganese, Dissolved		<10 ug/l				
	Molybdenum, Dissolved	50	12.20 ug/l				
	Nickel, Dissolved		<1 ug/l				
	Selenium Dissolved		<1 ug/l				
	Vanadium, Dissolved	20	<2 ug/l				
	Mercury, Dissolved	0.03	<0.01 ug/l				
	Total Alkalinity as CaCO3		403 mg/l				
	Electrical Conductivity at 25C		959 uS/cm				
	Potassium, Dissolved		2.34 mg/l				
	Sodium, Dissolved		234 mg/l				
	Sulphate, Dissolved	400	74.80 mg/l				
	Total Oxidised Nitrogen		<0.2 mg/l				
	Chloride		49.40 mg/l				
	Fluoride		5.27 mg/l				
	Ammoniacal Nitrogen	1.6	0.52 mg/l				
	Total Organic Carbon		<1 mg/l				
	pH		8.60 pH Units				
	Nitrate		<0.2 mg/l				
	Ionic Balance		-0.89 %				
	Electrical Conductivity		1220 µS/cm				
	Temperature		12.50 deg C				
	Dissolved Oxygen		3.01 mg/l	Field Measurements			
	pH		8.61 pH Units				
	Groundwater Level		19.07 mAOD				

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>
E06_01	Aluminium, Dissolved	50	12.50 ug/l		12/08/2015	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 ug/l				
	Arsenic Dissolved	10	<1 ug/l				
	Boron, Dissolved	2800	1780 ug/l				
	Cadmium, Dissolved	0.4	<0.1 ug/l				
	Calcium, Dissolved		3.30 mg/l				
	Chromium, Dissolved	50	<0.5 ug/l				
	Copper, Dissolved		<1 ug/l				
	Iron, Dissolved		<30 ug/l				
	Magnesium, Dissolved		1.85 mg/l				
	Manganese, Dissolved		<10 ug/l				
	Molybdenum, Dissolved	50	<3 ug/l				
	Nickel, Dissolved		<1 ug/l				
	Selenium Dissolved		<1 ug/l				
	Vanadium, Dissolved	20	<2 ug/l				
	Mercury, Dissolved	0.03	<0.01 ug/l				
	Total Alkalinity as CaCO3		370 mg/l				
	Electrical Conductivity at 25C		854 uS/cm				
	Potassium, Dissolved		1.73 mg/l				
	Sodium, Dissolved		227 mg/l				
	Sulphate, Dissolved	400	75.80 mg/l				
	Total Oxidised Nitrogen		<0.2 mg/l				
	Chloride		42.30 mg/l				
	Fluoride		2.63 mg/l				
	Ammoniacal Nitrogen	1.6	0.35 mg/l				
	Total Organic Carbon		2.30 mg/l				
	pH		8.69 pH Units				
	Nitrate		0.00 mg/l				
	Ionic Balance		0.32 %				
	Electrical Conductivity		850 uS/cm				
	Temperature		16.70 deg C				
	Dissolved Oxygen		1.71 mg/l	Field Measurements			
	pH		9.07 pH Units				
	Groundwater Level		18.79 mAOD				

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>		
E06_01	Aluminium, Dissolved	50	14.80 ug/l		03/12/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		1.30 ug/l						
	Arsenic Dissolved	10	1.92 ug/l						
	Boron, Dissolved	2800	1720 ug/l						
	Cadmium, Dissolved	0.4	<0.1 ug/l						
	Calcium, Dissolved		8.93 mg/l						
	Chromium, Dissolved	50	<0.5 ug/l						
	Copper, Dissolved		<1 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		6.15 mg/l						
	Manganese, Dissolved		15.40 ug/l						
	Molybdenum, Dissolved	50	16.20 ug/l						
	Nickel, Dissolved		<1 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved	20	3.49 ug/l						
	Mercury, Dissolved	0.03	<0.01 ug/l						
	Total Alkalinity as CaCO3		353 mg/l						
	Electrical Conductivity at 25C		917 uS/cm						
	Potassium, Dissolved		2.61 mg/l						
	Sodium, Dissolved		211 mg/l						
	Sulphate, Dissolved	400	122.00 mg/l						
	Total Oxidised Nitrogen		<0.2 mg/l						
	Chloride		35.80 mg/l						
	Fluoride		2.84 mg/l						
	Ammoniacal Nitrogen	1.6	0.49 mg/l						
	Total Organic Carbon		1.30 mg/l						
	pH		8.60 pH Units						
	Nitrate		<0.2 mg/l						
	Ionic Balance		-1.97 %						
	Electrical Conductivity		1240 uS/cm	Field Measurements					
	Temperature		12.50 deg C						
	Dissolved Oxygen		3.24 mg/l						
	pH		8.66 pH Units						
	Groundwater Level		18.80 mAOD						

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>		
E06_02	Aluminium, Dissolved		<10 ug/l		12/08/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved		2.03 ug/l						
	Boron, Dissolved		1070 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		58.60 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		<1 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		43.30 mg/l						
	Manganese, Dissolved		<10 ug/l						
	Molybdenum, Dissolved		23.60 ug/l						
	Nickel, Dissolved		<1 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		2.33 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		251 mg/l						
	Electrical Conductivity at 25C		979 uS/cm						
	Potassium, Dissolved		6.40 mg/l						
	Sodium, Dissolved		117 mg/l						
	Sulphate, Dissolved		278.00 mg/l						
	Total Oxidised Nitrogen		<0.2 mg/l						
	Chloride		37.00 mg/l						
	Fluoride		0.52 mg/l						
	Ammoniacal Nitrogen		0.61 mg/l						
	Total Organic Carbon		1.00 mg/l						
	pH		7.66 pH Units						
	Nitrate		<0.004 mg/l						
	Ionic Balance		-0.44 %						
	Electrical Conductivity		1100 µS/cm	Field Measurements					
	Temperature		15.00 deg C						
	Dissolved Oxygen		1.44 mg/l						
	pH		7.75 pH Units						
	Groundwater Level		20.60 mAOD						

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>		
E06_02	Aluminium, Dissolved		<10 ug/l		03/12/2015	Sampling Anesc/Testing EA NLS			
	Antimony, Dissolved		1.36 ug/l						
	Arsenic Dissolved		2.06 ug/l						
	Boron, Dissolved		791 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		101.00 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		<1 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		42.00 mg/l						
	Manganese, Dissolved		<10 ug/l						
	Molybdenum, Dissolved		30.70 ug/l						
	Nickel, Dissolved		2.18 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		7.27 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		203 mg/l						
	Electrical Conductivity at 25C		1050 uS/cm						
	Potassium, Dissolved		7.33 mg/l						
	Sodium, Dissolved		91 mg/l						
	Sulphate, Dissolved		359.00 mg/l						
	Total Oxidised Nitrogen		0.30 mg/l						
	Chloride		39.30 mg/l						
	Fluoride		0.50 mg/l						
	Ammoniacal Nitrogen		0.38 mg/l						
	Total Organic Carbon		1.00 mg/l						
	pH		7.80 pH Units						
	Nitrate		0.29 mg/l						
	Ionic Balance		-0.14 %						
	Electrical Conductivity		1330 µS/cm	Field Measurements					
	Temperature		11.50 deg C						
	Dissolved Oxygen		6.11 mg/l						
	pH		7.80 pH Units						
	Groundwater Level		20.72 mAOD						

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>		
E06_03	Aluminium, Dissolved		<10 ug/l		13/08/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		1.01 ug/l						
	Arsenic Dissolved		<1 ug/l						
	Boron, Dissolved		375 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		147 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		<1 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		78.10 mg/l						
	Manganese, Dissolved		<10 ug/l						
	Molybdenum, Dissolved		11.00 ug/l						
	Nickel, Dissolved		2.68 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		<2 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		152 mg/l						
	Electrical Conductivity at 25C		1170 uS/cm						
	Potassium, Dissolved		8.32 mg/l						
	Sodium, Dissolved		31 mg/l						
	Sulphate, Dissolved		525 mg/l						
	Total Oxidised Nitrogen		<0.2 mg/l						
	Chloride		30.50 mg/l						
	Fluoride		0.43 mg/l						
	Ammoniacal Nitrogen		0.10 mg/l						
	Total Organic Carbon		<1 mg/l						
	pH		7.69 pH Units						
	Nitrate		0.01 mg/l						
	Ionic Balance		1.69 %						
	Electrical Conductivity		1260 uS/cm	Field Measurements					
	Temperature		13.30 deg C						
	Dissolved Oxygen		1.04 mg/l						
	pH		7.78 pH Units						
	Groundwater Level		21.32 mAOD						

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>		
E06_03	Aluminium, Dissolved		<10 ug/l		04/12/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved		<1 ug/l						
	Boron, Dissolved		314 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		85 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		<1 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		46.00 mg/l						
	Manganese, Dissolved		18.00 ug/l						
	Molybdenum, Dissolved		13.20 ug/l						
	Nickel, Dissolved		1.44 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		<2 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		117 mg/l						
	Electrical Conductivity at 25C		824 uS/cm						
	Potassium, Dissolved		7.21 mg/l						
	Sodium, Dissolved		21 mg/l						
	Sulphate, Dissolved		296 mg/l						
	Total Oxidised Nitrogen		<0.2 mg/l						
	Chloride		46.00 mg/l						
	Fluoride		0.49 mg/l						
	Ammoniacal Nitrogen		0.08 mg/l						
	Total Organic Carbon		<1 mg/l						
	pH		7.85 pH Units						
	Nitrate		<0.2 mg/l						
	Ionic Balance		-3.51 %						
	Electrical Conductivity		1060 µS/cm	Field Measurements					
	Temperature		12.40 deg C						
	Dissolved Oxygen		8.12 mg/l						
	pH		7.87 pH Units						
	Groundwater Level		21.72 mAOD						



Emission point/ Parameter	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>
E06_04	Aluminium, Dissolved		<10 ug/l		13/08/2015	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 ug/l				
	Arsenic Dissolved		<1 ug/l				
	Boron, Dissolved		237 ug/l				
	Cadmium, Dissolved		<0.1 ug/l				
	Calcium, Dissolved		314 mg/l				
	Chromium, Dissolved		1.09 ug/l				
	Copper, Dissolved		4.32 ug/l				
	Iron, Dissolved		<30 ug/l				
	Magnesium, Dissolved		83.30 mg/l				
	Manganese, Dissolved		<10 ug/l				
	Molybdenum, Dissolved		8.19 ug/l				
	Nickel, Dissolved		5.34 ug/l				
	Selenium Dissolved		<1 ug/l				
	Vanadium, Dissolved		<2 ug/l				
	Mercury, Dissolved		<0.01 ug/l				
	Total Alkalinity as CaCO3		166 mg/l				
	Electrical Conductivity at 25C		2180 uS/cm				
	Potassium, Dissolved		70.70 mg/l				
	Sodium, Dissolved		89 mg/l				
	Suphate, Dissolved		802 mg/l				
	Total Oxidised Nitrogen		1.36 mg/l				
	Chloride		258.00 mg/l				
	Fluoride		0.39 mg/l				
	Ammoniacal Nitrogen		0.03 mg/l				
	Total Organic Carbon		3.10 mg/l				
	pH		7.41 pH Units				
	Nitrate		<0.004 mg/l				
	Ionic Balance		1.49 %				
	Electrical Conductivity		2440 µS/cm				
	Temperature		14.10 deg C				
	Dissolved Oxygen		2.65 mg/l				
	pH		7.40 pH Units				
	Groundwater Level		21.84 mAOD				

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>
E06_04	Aluminium, Dissolved		<10 ug/l		04/12/2015	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 ug/l				
	Arsenic Dissolved		<1 ug/l				
	Boron, Dissolved		244 ug/l				
	Cadmium, Dissolved		<0.1 ug/l				
	Calcium, Dissolved		275 mg/l				
	Chromium, Dissolved		2.06 ug/l				
	Copper, Dissolved		3.79 ug/l				
	Iron, Dissolved		<30 ug/l				
	Magnesium, Dissolved		75.80 mg/l				
	Manganese, Dissolved		19.80 ug/l				
	Molybdenum, Dissolved		7.76 ug/l				
	Nickel, Dissolved		4.61 ug/l				
	Selenium Dissolved		<1 ug/l				
	Vanadium, Dissolved		<2 ug/l				
	Mercury, Dissolved		<0.01 ug/l				
	Total Alkalinity as CaCO3		180 mg/l				
	Electrical Conductivity at 25C		1990 uS/cm				
	Potassium, Dissolved		53.50 mg/l				
	Sodium, Dissolved		76 mg/l				
	Sulphate, Dissolved		668 mg/l				
	Total Oxidised Nitrogen		1.30 mg/l				
	Chloride		236.00 mg/l				
	Fluoride		0.44 mg/l				
	Ammoniacal Nitrogen		0.03 mg/l				
	Total Organic Carbon		2.40 mg/l				
	pH		7.40 pH Units				
Nitrate		1.30 mg/l					
Ionic Balance		0.84 %					
Electrical Conductivity		2250 µS/cm	Field Measurements				
Temperature		12.30 deg C					
Dissolved Oxygen		4.23 mg/l					
pH		7.33 pH Units					
Groundwater Level		22.39 mAOD					

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>		
EO6_05	Aluminium, Dissolved		<10 ug/l		13/08/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved		<1 ug/l						
	Boron, Dissolved		288 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		186 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		1.03 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		70.20 mg/l						
	Manganese, Dissolved		15 ug/l						
	Molybdenum, Dissolved		4.87 ug/l						
	Nickel, Dissolved		1.91 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		<2 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		179 mg/l						
	Electrical Conductivity at 25C		1140 uS/cm						
	Potassium, Dissolved		4.49 mg/l						
	Sodium, Dissolved		23 mg/l						
	Sulphate, Dissolved		509 mg/l						
	Total Oxidised Nitrogen		<0.2 mg/l						
	Chloride		24.80 mg/l						
	Fluoride		0.41 mg/l						
	Ammoniacal Nitrogen		0.08 mg/l						
	Total Organic Carbon		<1 mg/l						
	pH		7.40 pH Units						
	Nitrate		<0.004 mg/l						
	Ionic Balance		4.15 %						
	Electrical Conductivity		1320 µS/cm	Field Measurements					
	Temperature		14.00 deg C						
	Dissolved Oxygen		1.86 mg/l						
	pH		7.57 pH Units						
	Groundwater Level		25.25 mAOD						

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>		
E06_05	Aluminium, Dissolved		<10 ug/l		04/12/2015	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 ug/l						
	Arsenic Dissolved		<1 ug/l						
	Boron, Dissolved		218 ug/l						
	Cadmium, Dissolved		<0.1 ug/l						
	Calcium, Dissolved		167 mg/l						
	Chromium, Dissolved		<0.5 ug/l						
	Copper, Dissolved		1.20 ug/l						
	Iron, Dissolved		<30 ug/l						
	Magnesium, Dissolved		68.90 mg/l						
	Manganese, Dissolved		<10 ug/l						
	Molybdenum, Dissolved		4.88 ug/l						
	Nickel, Dissolved		1.06 ug/l						
	Selenium Dissolved		<1 ug/l						
	Vanadium, Dissolved		<2 ug/l						
	Mercury, Dissolved		<0.01 ug/l						
	Total Alkalinity as CaCO3		163 mg/l						
	Electrical Conductivity at 25C		1200 uS/cm						
	Potassium, Dissolved		4.51 mg/l						
	Sodium, Dissolved		20 mg/l						
	Sulphate, Dissolved		559 mg/l						
	Total Oxidised Nitrogen		<0.2 mg/l						
	Chloride		25.50 mg/l						
	Fluoride		0.39 mg/l						
	Ammoniacal Nitrogen		0.08 mg/l						
	Total Organic Carbon		<1 mg/l						
	pH		7.53 pH Units						
	Nitrate		<0.2 mg/l						
	Ionic Balance		-2.09 %						
	Electrical Conductivity		1540 µS/cm	Field Measurements					
	Temperature		12.50 deg C						
	Dissolved Oxygen		3.33 mg/l						
	pH		7.50 pH Units						
	Groundwater Level		25.76 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.

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

**\*Compliance limit exceeded for 3 consecutive sampling events after March 2014 results (10 elevated sampling events in total).**

**Discussed with NRW and under investigation.**

Signed A. Zauscher Date .....

(authorised to sign as representative of the Operator)