



Mr A Leakey  
PPC Compliance Team  
Natural Resources Wales  
Rivers House  
St Mellons  
Cardiff  
CF3 0EY

Your ref:  
Our ref: NRW Reporting Forms  
Phone: 01446 752270  
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27<sup>th</sup> July 2017

Dear Mr Leakey

**RWE Generation UK plc, Aberthaw Power Station, Permit Ref. RP3133LD,  
DP3432SW, BP3339BH: NRW Reporting Forms**

Please find enclosed the Water1 and Groundwater1 reports for Aberthaw Power Station, Aberthaw Ash Disposal Site and Aberthaw Quarry Ash Disposal Site covering the period 1<sup>st</sup> January 2017 to 30<sup>th</sup> June 2017.

Please contact Amy Lavisher on the above telephone number if you have any questions or if clarification is required.

Yours sincerely

Richard Little  
Station Manager

**RWE Generation**

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Registered in England  
and Wales no. 3892782

# Reporting of Emission to Groundwater for the period from ...1st January 2017 ..to...30th June 2017 ...

Operator : RWE Generation UK plc

Form: Groundwater1

Location: Aberthaw Ash Disposal Site

Permit/Variation Number: DP3432SW

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>	
BH3	Aluminium, Dissolved		<40 µg/l		14/02/2017	Sampling Amec/Testing EA NLS		
	Antimony, Dissolved		14 µg/l					
	Arsenic Dissolved	310	179 µg/l					
	Boron, Dissolved	60000	21000 µg/l					
	Cadmium, Dissolved	15	0.05 µg/l					
	Calcium, Dissolved		419 mg/l					
	Chromium, Dissolved		<0.5 µg/l					
	Copper, Dissolved		1.55 µg/l					
	Magnesium, Dissolved		203 mg/l					
	Manganese, Dissolved		96 µg/l					
	Molybdenum, Dissolved	9000	2410 µg/l					
	Nickel, Dissolved		0.6 µg/l					
	Selenium Dissolved	350	8.45 µg/l					
	Vanadium, Dissolved		42 µg/l					
	Mercury, Dissolved	20	<0.01 µg/l					
	Alkalinity to pH 4.5 as CaCO3		225 mg/l					
	Conductivity at 20C		6190 uS/cm					
	Potassium, Dissolved		108 mg/l					
	Sodium, Dissolved		768 mg/l					
	Sulphate, Dissolved as SO4		1650 mg/l					
	Nitrogen : Total Oxidised as N		0.84 mg/l					
	Chloride		1280 mg/l					
	Fluoride		<0.05 mg/l					
	Ammoniacal Nitrogen as N		6.6	0.05 mg/l				
	Carbon, Organic : Total as C :- (TOC)			1 mg/l				
	pH			7.67 pH Units				
	Ionic Balance			0.82 %				
	Electrical Conductivity			7050 µS/cm				
	Temperature			12.2 deg C				
	Dissolved Oxygen			1.19 mg/l				
	pH			7.63 pH Units				
	Groundwater Level			6.72 mAOD				
				Field Measurements				

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>
BH3	Aluminium, Dissolved		<40 µg/l		09/05/2017	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		13 µg/l				
	Arsenic Dissolved	310	167 µg/l				
	Boron, Dissolved	60000	24100 µg/l				
	Cadmium, Dissolved	15	0.06 µg/l				
	Calcium, Dissolved		384 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		2.86 µg/l				
	Magnesium, Dissolved		202 mg/l				
	Manganese, Dissolved		87 µg/l				
	Molybdenum, Dissolved	9000	2220 µg/l				
	Nickel, Dissolved		<0.3 µg/l				
	Selenium Dissolved	350	7.74 µg/l				
	Vanadium, Dissolved		46 µg/l				
	Mercury, Dissolved	20	<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		240 mg/l				
	Conductivity at 20C		4920 uS/cm				
	Potassium, Dissolved		93 mg/l				
	Sodium, Dissolved		567 mg/l				
	Sulphate, Dissolved as SO4		1690 mg/l				
	Nitrogen : Total Oxidised as N		0.74 mg/l				
	Chloride		854 mg/l				
	Fluoride		0.06 mg/l				
	Ammoniacal Nitrogen as N		<0.01 mg/l				
	Carbon, Organic : Total as C :- (TOC)		<0.7 mg/l				
	pH		7.77 pH Units				
	Ionic Balance		1.02 %				
	Electrical Conductivity		5054 µS/cm				
	Temperature		12.1 deg C				
	Dissolved Oxygen		5.84 mg/l				
	pH		7.62 pH Units				
	Groundwater Level		6.21 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>		
BH5	Aluminum, Dissolved		<10 µg/l		15/02/2017	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 µg/l						
	Arsenic Dissolved		<1 µg/l						
	Boron, Dissolved		605 µg/l						
	Cadmium, Dissolved		<0.1 µg/l						
	Calcium, Dissolved		249 mg/l						
	Chromium, Dissolved		<0.5 µg/l						
	Copper, Dissolved		1.63 µg/l						
	Magnesium, Dissolved		18 mg/l						
	Manganese, Dissolved		<10 µg/l						
	Molybdenum, Dissolved		<3 µg/l						
	Nickel, Dissolved		<1 µg/l						
	Selenium Dissolved		<1 µg/l						
	Vanadium, Dissolved		<2 µg/l						
	Mercury, Dissolved		<0.01 µg/l						
	Alkalinity to pH 4.5 as CaCO3		376 mg/l						
	Conductivity at 20C		1270 µS/cm						
	Potassium, Dissolved		2 mg/l						
	Sodium, Dissolved		43 mg/l						
	Sulphate, Dissolved as SO4		298 mg/l						
	Nitrogen : Total Oxidised as N		1.25 mg/l						
	Chloride		67 mg/l						
	Fluoride		0.08 mg/l						
	Ammoniacal Nitrogen as N		0.03 mg/l						
	Carbon, Organic : Total as C :- (TOC)		2 mg/l						
	pH		6.98 pH Units						
	Ionic Balance		0.38 %						
	Electrical Conductivity		1521 µS/cm	Field Measurements					
	Temperature		10.3 deg C						
	Dissolved Oxygen		5.14 mg/l						
	pH		6.94 pH Units						
	Groundwater Level		9.60 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>
BH5	Aluminium, Dissolved		<10 µg/l		11/05/2017	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		<1 µg/l				
	Boron, Dissolved		1020 µg/l				
	Cadmium, Dissolved		<0.1 µg/l				
	Calcium, Dissolved		260 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		1.17 µg/l				
	Magnesium, Dissolved		18 mg/l				
	Manganese, Dissolved		20 µg/l				
	Molybdenum, Dissolved		<3 µg/l				
	Nickel, Dissolved		<1 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<2 µg/l				
	Mercury, Dissolved		0 µg/l				
	Alkalinity to pH 4.5 as CaCO3		306 mg/l				
	Conductivity at 20C		1380 uS/cm				
	Potassium, Dissolved		1 mg/l				
	Sodium, Dissolved		51 mg/l				
	Sulphate, Dissolved as SO4		395 mg/l				
	Nitrogen : Total Oxidised as N		0.54 mg/l				
	Chloride		71 mg/l				
	Fluoride		0.07 mg/l				
	Ammoniacal Nitrogen as N		<0.03 mg/l				
	Carbon, Organic : Total as C :- (TOC)		1 mg/l				
	pH		7.05 pH Units				
	Ionic Balance		1.03 %				
	Electrical Conductivity		1423 µS/cm				
	Temperature		12.3 deg C				
	Dissolved Oxygen		2.89 mg/l				
	pH		6.75 pH Units				
	Groundwater Level		8.67 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>		
BH6	Aluminium, Dissolved		<40 µg/l		14/02/2017	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<10 µg/l						
	Arsenic Dissolved		12 µg/l						
	Boron, Dissolved		19900 µg/l						
	Cadmium, Dissolved		0.29 µg/l						
	Calcium, Dissolved		1070 mg/l						
	Chromium, Dissolved		<0.5 µg/l						
	Copper, Dissolved		<0.2 µg/l						
	Magnesium, Dissolved		241 mg/l						
	Manganese, Dissolved		1590 µg/l						
	Molybdenum, Dissolved		3860 µg/l						
	Nickel, Dissolved		7.6 µg/l						
	Selenium Dissolved		8.82 µg/l						
	Vanadium, Dissolved		<200 µg/l						
	Mercury, Dissolved		<0.01 µg/l						
	Alkalinity to pH 4.5 as CaCO3		305 mg/l						
	Conductivity at 20C		14600 µS/cm						
	Potassium, Dissolved		147 mg/l						
	Sodium, Dissolved		2070 mg/l						
	Sulphate, Dissolved as SO4		1760 mg/l						
	Nitrogen : Total Oxidised as N		26.60 mg/l						
	Chloride		4710 mg/l						
	Fluoride		0.13 mg/l						
	Ammoniacal Nitrogen as N		0.98 mg/l						
	Carbon, Organic : Total as C :- (TOC)		2 mg/l						
	pH		7.26 pH Units						
	Ionic Balance		2.53 %						
	Electrical Conductivity		18153 µS/cm	Field Measurements					
	Temperature		11.7 deg C						
	Dissolved Oxygen		4.14 mg/l						
	pH		7.22 pH Units						
	Groundwater Level		8.10 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>
BH6	Aluminium, Dissolved		<40 µg/l		09/05/2017	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		29 µg/l				
	Boron, Dissolved		28200 µg/l				
	Cadmium, Dissolved		0.16 µg/l				
	Calcium, Dissolved		641 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		<0.2 µg/l				
	Magnesium, Dissolved		209 mg/l				
	Manganese, Dissolved		2320 µg/l				
	Molybdenum, Dissolved		3400 µg/l				
	Nickel, Dissolved		5.7 µg/l				
	Selenium Dissolved		21.10 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO <sub>3</sub>		330 mg/l				
	Conductivity at 20C		6760 uS/cm				
	Potassium, Dissolved		80 mg/l				
	Sodium, Dissolved		768 mg/l				
	Sulphate, Dissolved as SO <sub>4</sub>		1950 mg/l				
	Nitrogen : Total Oxidised as N		13.30 mg/l				
	Chloride		1380 mg/l				
	Fluoride		0.15 mg/l				
	Ammoniacal Nitrogen as N		0.67 mg/l				
	Carbon, Organic : Total as C :- (TOC)		1 mg/l				
	pH		7.30 pH Units				
	Ionic Balance		0.90 %				
	Electrical Conductivity		7373 µS/cm				
	Temperature		13.0 deg C				
	Dissolved Oxygen		3.21 mg/l				
	pH		7.25 pH Units				
	Groundwater Level		8.26 mAOD	Field Measurements			

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>
BH7	Aluminium, Dissolved		<40 µg/l		14/02/2017	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved	310	6 µg/l				
	Boron, Dissolved	60000	21500 µg/l				
	Cadmium, Dissolved	15	0.09 µg/l				
	Calcium, Dissolved		815 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		<0.2 µg/l				
	Magnesium, Dissolved		121 mg/l				
	Manganese, Dissolved		1320 µg/l				
	Molybdenum, Dissolved	9000	3760 µg/l				
	Nickel, Dissolved		<0.3 µg/l				
	Selenium Dissolved	350	<1 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		300 mg/l				
	Conductivity at 20C		12900 µS/cm				
	Potassium, Dissolved		257 mg/l				
	Sodium, Dissolved		2320 mg/l				
	Sulphate, Dissolved as SO4		1870 mg/l				
	Nitrogen : Total Oxidised as N		<0.2 mg/l				
	Chloride		3910 mg/l				
	Fluoride		0.42 mg/l				
	Ammoniacal Nitrogen as N		3.22 mg/l				
	Carbon, Organic : Total as C :- (TOC)	6.6	2 mg/l				
	pH		7.18 pH Units				
	Ionic Balance		0.90 %				
	Electrical Conductivity		15703 µS/cm				
	Temperature		11.0 deg C				
	Dissolved Oxygen		1.25 mg/l				
	pH		6.69 pH Units				
	Groundwater Level		2.74 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>
BH7	Aluminium, Dissolved		<40 µg/l		09/05/2017	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved	310	4 µg/l				
	Boron, Dissolved	60000	22400 µg/l				
	Cadmium, Dissolved	15	0.09 µg/l				
	Calcium, Dissolved		785 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		0.92 µg/l				
	Magnesium, Dissolved		116 mg/l				
	Manganese, Dissolved		1210 µg/l				
	Molybdenum, Dissolved	9000	3860 µg/l				
	Nickel, Dissolved		<0.3 µg/l				
	Selenium Dissolved	350	<1 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved	20	<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		260 mg/l				
	Conductivity at 20C		13400 uS/cm				
	Potassium, Dissolved		289 mg/l				
	Sodium, Dissolved		2250 mg/l				
	Sulphate, Dissolved as SO4		1850 mg/l				
	Nitrogen : Total Oxidised as N		<0.2 mg/l				
	Chloride		4020 mg/l				
	Fluoride		0.43 mg/l				
	Ammoniacal Nitrogen as N		3.08 mg/l				
	Carbon, Organic : Total as C :- (TOC)		<0.7 mg/l				
	pH		7.14 pH Units				
	Ionic Balance		1.03 %				
	Electrical Conductivity		15750 µS/cm				
	Temperature		16.0 deg C				
	Dissolved Oxygen		0.70 mg/l				
	pH		6.95 pH Units				
	Groundwater Level		3.24 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>
BH8		Aluminium, Dissolved		<40 µg/l		14/02/2017	Sampling Amec/Testing EA NLS	
		Antimony, Dissolved		<10 µg/l				
		Arsenic Dissolved		<1 µg/l				
		Boron, Dissolved		1890 µg/l				
		Cadmium, Dissolved		<0.03 µg/l				
		Calcium, Dissolved		205 mg/l				
		Chromium, Dissolved		<0.5 µg/l				
		Copper, Dissolved		<0.2 µg/l				
		Magnesium, Dissolved		373 mg/l				
		Manganese, Dissolved		66 µg/l				
		Molybdenum, Dissolved		<30 µg/l				
		Nickel, Dissolved		0.3 µg/l				
		Selenium Dissolved		<1 µg/l				
		Vanadium, Dissolved		<20 µg/l				
		Mercury, Dissolved		<0.01 µg/l				
		Alkalinity to pH 4.5 as CaCO3		735 mg/l				
		Conductivity at 20C		18600 uS/cm				
		Potassium, Dissolved		116 mg/l				
		Sodium, Dissolved		3670 mg/l				
		Sulphate, Dissolved as SO4		410 mg/l				
		Nitrogen : Total Oxidised as N		<0.2 mg/l				
		Chloride		6770 mg/l				
		Fluoride		0.53 mg/l				
		Ammoniacal Nitrogen as N		6.20 mg/l				
		Carbon, Organic : Total as C :- (TOC)		4.1 mg/l				
		pH		7.10 pH Units				
		Ionic Balance		2.58 %				
		Electrical Conductivity		22363 µS/cm				
		Temperature		11.1 deg C				
		Dissolved Oxygen		2.38 mg/l				
		pH		7.02 pH Units				
		Groundwater Level		6.44 mAOD				

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>
BH8	Aluminium, Dissolved		82 µg/l		09/05/2017	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		22 µg/l				
	Arsenic Dissolved		92 µg/l				
	Boron, Dissolved		15700 µg/l				
	Cadmium, Dissolved		0.06 µg/l				
	Calcium, Dissolved		512 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		<0.2 µg/l				
	Magnesium, Dissolved		229 mg/l				
	Manganese, Dissolved		922 µg/l				
	Molybdenum, Dissolved		2200 µg/l				
	Nickel, Dissolved		0.8 µg/l				
	Selenium Dissolved		11.60 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		0 µg/l				
	Alkalinity to pH 4.5 as CaCO3		290 mg/l				
	Conductivity at 20C		1180 µS/cm				
	Potassium, Dissolved		116 mg/l				
	Sodium, Dissolved		1340 mg/l				
	Sulphate, Dissolved as SO4		1290 mg/l				
	Nitrogen : Total Oxidised as N		0.75 mg/l				
	Chloride		44 mg/l				
	Fluoride		0.23 mg/l				
	Ammoniacal Nitrogen as N		1.32 mg/l				
	Carbon, Organic : Total as C :- {TOC}		<0.7 mg/l				
	pH		8.02 pH Units				
	Ionic Balance		51.38 %				
	Electrical Conductivity		1903 µS/cm				
	Temperature		11.9 deg C				
	Dissolved Oxygen		7.56 mg/l				
	pH		7.99 pH Units				
	Groundwater Level		7.05 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>		
BH9	Aluminium, Dissolved		<10 µg/l		15/02/2017	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<1 µg/l						
	Arsenic Dissolved		<1 µg/l						
	Boron, Dissolved		126 µg/l						
	Cadmium, Dissolved		<0.1 µg/l						
	Calcium, Dissolved		83 mg/l						
	Chromium, Dissolved		<0.5 µg/l						
	Copper, Dissolved		<1 µg/l						
	Magnesium, Dissolved		21 mg/l						
	Manganese, Dissolved		<10 µg/l						
	Molybdenum, Dissolved		0 µg/l						
	Nickel, Dissolved		<1 µg/l						
	Selenium Dissolved		<1 µg/l						
	Vanadium, Dissolved		<2 µg/l						
	Mercury, Dissolved		<0.01 µg/l						
	Alkalinity to pH 4.5 as CaCO3		263 mg/l						
	Conductivity at 20C		588 uS/cm						
	Potassium, Dissolved		2 mg/l						
	Sodium, Dissolved		20 mg/l						
	Sulphate, Dissolved as SO4		29 mg/l						
	Nitrogen : Total Oxidised as N		3 mg/l						
	Chloride		31 mg/l						
	Fluoride		0.16 mg/l						
	Ammoniacal Nitrogen as N		0.03 mg/l						
	Carbon, Organic : Total as C :- (TOC)		<0.7 mg/l						
	pH		7 pH Units						
	Ionic Balance		-1 %						
	Electrical Conductivity		708 µS/cm	Field Measurements					
	Temperature		11 deg C						
	Dissolved Oxygen		7 mg/l						
	pH		6 pH Units						
	Groundwater Level		5.03 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>
BH9	Aluminium, Dissolved		<10 µg/l		09/05/2017	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<1 µg/l				
	Arsenic Dissolved		<1 µg/l				
	Boron, Dissolved		103 µg/l				
	Cadmium, Dissolved		<0.1 µg/l				
	Calcium, Dissolved		82 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		<1 µg/l				
	Magnesium, Dissolved		20 mg/l				
	Manganese, Dissolved		<10 µg/l				
	Molybdenum, Dissolved		<3 µg/l				
	Nickel, Dissolved		<1 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<2 µg/l				
	Mercury, Dissolved		0 µg/l				
	Alkalinity to pH 4.5 as CaCO3		252 mg/l				
	Conductivity at 20C		592 uS/cm				
	Potassium, Dissolved		1.78 mg/l				
	Sodium, Dissolved		19.4 mg/l				
	Sulphate, Dissolved as SO4		27.3 mg/l				
	Nitrogen : Total Oxidised as N		2.68 mg/l				
	Chloride		29.8 mg/l				
	Fluoride		0.17 mg/l				
	Ammoniacal Nitrogen as N		<0.03 mg/l				
	Carbon, Organic : Total as C :- (TOC)		<0.7 mg/l				
	pH		7.49 pH Units				
	Ionic Balance		-0.02 %				
Electrical Conductivity		621 µS/cm	Field Measurements				
Temperature		12.0 deg C					
Dissolved Oxygen		7.49 mg/l					
pH		7.21 pH Units					
Groundwater Level		4.31 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>
BH10	Aluminium, Dissolved		<40 µg/l		14/02/2017	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		14 µg/l				
	Arsenic Dissolved		35 µg/l				
	Boron, Dissolved		21000 µg/l				
	Cadmium, Dissolved		0.07 µg/l				
	Calcium, Dissolved		420 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		1.71 µg/l				
	Magnesium, Dissolved		202 mg/l				
	Manganese, Dissolved		98 µg/l				
	Molybdenum, Dissolved		2420 µg/l				
	Nickel, Dissolved		0.6 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		44 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		810 mg/l				
	Conductivity at 20C		17200 uS/cm				
	Potassium, Dissolved		107 mg/l				
	Sodium, Dissolved		783 mg/l				
	Sulphate, Dissolved as SO4		1850 mg/l				
	Nitrogen : Total Oxidised as N		<0.2 mg/l				
	Chloride		5920 mg/l				
	Fluoride		0.16 mg/l				
	Ammoniacal Nitrogen as N		25.60 mg/l				
	Carbon, Organic : Total as C :- (TOC)		5 mg/l				
	pH		7.37 pH Units				
	Ionic Balance		49.06 %				
	Electrical Conductivity		21413 µS/cm				
	Temperature		12.0 deg C				
	Dissolved Oxygen		0.41 mg/l				
	pH		7.03 pH Units				
	Groundwater Level		2.07 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>		
BH10	Aluminum, Dissolved		<40 µg/l		10/05/2017	Sampling Amec/Testing EA NLS			
	Antimony, Dissolved		<10 µg/l						
	Arsenic Dissolved		23 µg/l						
	Boron, Dissolved		15800 µg/l						
	Cadmium, Dissolved		0.04 µg/l						
	Calcium, Dissolved		517 mg/l						
	Chromium, Dissolved		<0.5 µg/l						
	Copper, Dissolved		<0.2 µg/l						
	Magnesium, Dissolved		234 mg/l						
	Manganese, Dissolved		921 µg/l						
	Molybdenum, Dissolved		1880 µg/l						
	Nickel, Dissolved		<0.3 µg/l						
	Selenium Dissolved		<1 µg/l						
	Vanadium, Dissolved		<20 µg/l						
	Mercury, Dissolved		<0.01 µg/l						
	Alkalinity to pH 4.5 as CaCO3		695 mg/l						
	Conductivity at 20C		8950 µS/cm						
	Potassium, Dissolved		117 mg/l						
	Sodium, Dissolved		1350 mg/l						
	Sulphate, Dissolved as SO4		1310 mg/l						
	Nitrogen : Total Oxidised as N		<0.2 mg/l						
	Chloride		2470 mg/l						
	Fluoride		0.25 mg/l						
	Ammoniacal Nitrogen as N		21.80 mg/l						
	Carbon, Organic : Total as C :- {TOC}		2 mg/l						
	pH		7.19 pH Units						
	Ionic Balance		1.90 %						
	Electrical Conductivity		10190 µS/cm	Field Measurements					
	Temperature		15.0 deg C						
	Dissolved Oxygen		1.32 mg/l						
	pH		7.02 pH Units						
	Groundwater Level		2.49 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>
BH11	Aluminium, Dissolved		<40 µg/l		14/02/2017	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		21.6 µg/l				
	Boron, Dissolved		<7000 µg/l				
	Cadmium, Dissolved		<0.03 µg/l				
	Calcium, Dissolved		249 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		<0.2 µg/l				
	Magnesium, Dissolved		98 mg/l				
	Manganese, Dissolved		737 µg/l				
	Molybdenum, Dissolved		310 µg/l				
	Nickel, Dissolved		0.3 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		630 mg/l				
	Conductivity at 20C		2520 uS/cm				
	Potassium, Dissolved		44 mg/l				
	Sodium, Dissolved		251 mg/l				
	Sulphate, Dissolved as SO4		372 mg/l				
	Nitrogen : Total Oxidised as N		<0.2 mg/l				
	Chloride		376 mg/l				
	Fluoride		0.19 mg/l				
	Ammoniacal Nitrogen as N		1.59 mg/l				
	Carbon, Organic : Total as C :- (TOC)		1.7 mg/l				
	pH		7.32 pH Units				
	Ionic Balance		2.41 %				
	Electrical Conductivity		2942 µS/cm				
	Temperature		10.8 deg C				
	Dissolved Oxygen		0.74 mg/l				
	pH		7.21 pH Units				
	Groundwater Level		4.40 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>
BH11	Aluminium, Dissolved		<40 µg/l		09/05/2017	Sampling Amec/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		13 µg/l				
	Boron, Dissolved		9430 µg/l				
	Cadmium, Dissolved		<0.03 µg/l				
	Calcium, Dissolved		296 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		9.58 µg/l				
	Magnesium, Dissolved		153 mg/l				
	Manganese, Dissolved		911 µg/l				
	Molybdenum, Dissolved		408 µg/l				
	Nickel, Dissolved		<0.3 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		720 mg/l				
	Conductivity at 20C		5870 uS/cm				
	Potassium, Dissolved		89.9 mg/l				
	Sodium, Dissolved		894 mg/l				
	Suphate, Dissolved as SO4		718 mg/l				
	Nitrogen : Total Oxidised as N		<0.2 mg/l				
	Chloride		1420 mg/l				
	Fluoride		0.38 mg/l				
	Ammoniacal Nitrogen as N		4.88 mg/l				
	Carbon, Organic : Total as C :- (TOC)		5.1 mg/l				
	pH		7.23 pH Units				
	Ionic Balance		0.65 %				
	Electrical Conductivity		9555 µS/cm				
	Temperature		19.2 deg C				
	Dissolved Oxygen		0.88 mg/l				
	pH		7.12 pH Units				
	Groundwater Level		4.03 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.

Signed A. Saurer Date 27/07/17  
(authorised to sign as representative of the Operator)

Reporting of Emission to Surface Water for the period from .....1st January 2017 .....to.....30th June 2017 .....

Operator : RWE Generation UK plc

Form: Water1

Location: Aberthaw Ash Disposal Site

Permit/Variation Number: DP3432SW

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>
S1 (Group Five Spring)	Aluminium, Dissolved		<40 µg/l		14/02/2017	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		23.90 µg/l				
	Boron, Dissolved		12100 µg/l				
	Cadmium, Dissolved		0.157 µg/l				
	Calcium, Dissolved		961 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		1.940 µg/l				
	Magnesium, Dissolved		71.0 mg/l				
	Manganese, Dissolved		676.0 µg/l				
	Molybdenum, Dissolved		5090 µg/l				
	Nickel, Dissolved		<0.3 µg/l				
	Selenium Dissolved		10.30 µg/l				
	Vanadium, Dissolved		26 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		130 mg/l				
	Conductivity at 20C		15300 µS/cm				
	Potassium, Dissolved		197 mg/l				
	Sodium, Dissolved		2740 mg/l				
	Sulphate, Dissolved as SO4		1490 mg/l				
	Nitrogen : Total Oxidised as N		21.00 mg/l				
	Chloride		5180 mg/l				
	Fluoride		0.128 mg/l				
	Ammoniacal Nitrogen as N		12.600 mg/l				
	Carbon, Organic : Total as C :- {TOC}		2.90 mg/l				
	pH		7.41 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>
S1 (Group Five Spring)	Aluminium, Dissolved		49 µg/l		17/05/2017	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		17.50 µg/l				
	Boron, Dissolved		8820 µg/l				
	Cadmium, Dissolved		0.17 µg/l				
	Calcium, Dissolved		688 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		6.740 µg/l				
	Magnesium, Dissolved		54 mg/l				
	Manganese, Dissolved		385.0 µg/l				
	Molybdenum, Dissolved		3550 µg/l				
	Nickel, Dissolved		<0.3 µg/l				
	Selenium Dissolved		10 µg/l				
	Vanadium, Dissolved		30 µg/l				
	Mercury, Dissolved		0.013 µg/l				
	Alkalinity to pH 4.5 as CaCO3		85.00 mg/l				
	Conductivity at 20C		10700 uS/cm				
	Potassium, Dissolved		152 mg/l				
	Sodium, Dissolved		1990 mg/l				
	Sulphate, Dissolved as SO4		1110 mg/l				
	Nitrogen : Total Oxidised as N		9.23 mg/l				
	Chloride		3580 mg/l				
	Fluoride		0.07 mg/l				
	Ammoniacal Nitrogen as N		0.604 mg/l				
	Carbon, Organic : Total as C :- {TOC}		6.70 mg/l				
	pH		7.40 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>
Eastern Perimeter Drain	Aluminium, Dissolved		86 µg/l		14/02/2017	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		1.77 µg/l				
	Boron, Dissolved		2150 µg/l				
	Cadmium, Dissolved		<0.03 µg/l				
	Calcium, Dissolved		189 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		2.320 µg/l				
	Magnesium, Dissolved		16.9 mg/l				
	Manganese, Dissolved		419.0 µg/l				
	Molybdenum, Dissolved		333 µg/l				
	Nickel, Dissolved		0.95 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		275 mg/l				
	Conductivity at 20C		1480 uS/cm				
	Potassium, Dissolved		19 mg/l				
	Sodium, Dissolved		143 mg/l				
	Sulphate, Dissolved as SO4		254 mg/l				
	Nitrogen : Total Oxidised as N		2.97 mg/l				
	Chloride		213 mg/l				
	Fluoride		0.144 mg/l				
	Ammoniacal Nitrogen as N		0.035 mg/l				
	Carbon, Organic : Total as C :- {TOC}		1.90 mg/l				
	pH		7.93 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>
Eastern Perimeter Drain	Aluminium, Dissolved		66 µg/l		17/05/2017	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		2.01 µg/l				
	Boron, Dissolved		2710 µg/l				
	Cadmium, Dissolved		0 µg/l				
	Calcium, Dissolved		194 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		1.300 µg/l				
	Magnesium, Dissolved		18 mg/l				
	Manganese, Dissolved		391.0 µg/l				
	Molybdenum, Dissolved		459 µg/l				
	Nickel, Dissolved		0.98 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		0.0154 µg/l				
	Alkalinity to pH 4.5 as CaCO3		275.00 mg/l				
	Conductivity at 20C		1530 uS/cm				
	Potassium, Dissolved		23 mg/l				
	Sodium, Dissolved		165 mg/l				
	Sulphate, Dissolved as SO4		303 mg/l				
	Nitrogen : Total Oxidised as N		2.53 mg/l				
	Chloride		215 mg/l				
	Fluoride		0.13 mg/l				
	Ammoniacal Nitrogen as N		0 mg/l				
	Carbon, Organic : Total as C :- {TOC}		2.00 mg/l				
	pH		8.03 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>
S3 (River Thaw)	Aluminium, Dissolved		81 µg/l		14/02/2017	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		<1 µg/l				
	Boron, Dissolved		<700 µg/l				
	Cadmium, Dissolved		0 µg/l				
	Calcium, Dissolved		129 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		1.240 µg/l				
	Magnesium, Dissolved		26.1 mg/l				
	Manganese, Dissolved		20.2 µg/l				
	Molybdenum, Dissolved		<30 µg/l				
	Nickel, Dissolved		0.51 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		310 mg/l				
	Conductivity at 20C		1290 uS/cm				
	Potassium, Dissolved		7 mg/l				
	Sodium, Dissolved		135 mg/l				
	Sulphate, Dissolved as SO4		54 mg/l				
	Nitrogen : Total Oxidised as N		4.03 mg/l				
	Chloride		222 mg/l				
	Fluoride		0.105 mg/l				
	Ammoniacal Nitrogen as N		0.014 mg/l				
	Carbon, Organic : Total as C :- {TOC}		1.80 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>
S3 (River Thaw)	Aluminium, Dissolved		213 µg/l		17/05/2017	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		<1 µg/l				
	Boron, Dissolved		<700 µg/l				
	Cadmium, Dissolved		0.04 µg/l				
	Calcium, Dissolved		114 mg/l				
	Chromium, Dissolved		0.52 µg/l				
	Copper, Dissolved		3.670 µg/l				
	Magnesium, Dissolved		14.7 mg/l				
	Manganese, Dissolved		30.6 µg/l				
	Molybdenum, Dissolved		<30 µg/l				
	Nickel, Dissolved		0.96 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		0.0132 µg/l				
	Alkalinity to pH 4.5 as CaCO3		265 mg/l				
	Conductivity at 20C		707 uS/cm				
	Potassium, Dissolved		4.85 mg/l				
	Sodium, Dissolved		47.8 mg/l				
	Sulphate, Dissolved as SO4		33.6 mg/l				
	Nitrogen : Total Oxidised as N		3.54 mg/l				
	Chloride		73.0 mg/l				
	Fluoride		0.093 mg/l				
	Ammoniacal Nitrogen as N		0.024 mg/l				
	Carbon, Organic : Total as C :- {TOC}		5.40 mg/l				
	pH		8.28 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>
Brackish Lagoon	Aluminium, Dissolved		<40 µg/l		14/02/2017	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		<1 µg/l				
	Boron, Dissolved		2730 µg/l				
	Cadmium, Dissolved		<0.03 µg/l				
	Calcium, Dissolved		206 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		0.980 µg/l				
	Magnesium, Dissolved		176.0 mg/l				
	Manganese, Dissolved		102.0 µg/l				
	Molybdenum, Dissolved		431 µg/l				
	Nickel, Dissolved		0.36 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		225 mg/l				
	Conductivity at 20C		8940 uS/cm				
	Potassium, Dissolved		83 mg/l				
	Sodium, Dissolved		1600 mg/l				
	Sulphate, Dissolved as SO4		591 mg/l				
	Nitrogen : Total Oxidised as N		1.62 mg/l				
	Chloride		2850 mg/l				
	Fluoride		0.303 mg/l				
	Ammoniacal Nitrogen as N		<0.0100 mg/l				
	Carbon, Organic : Total as C :- {TOC}		3.40 mg/l				
	pH		8.43 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>
Brackish Lagoon	Aluminium, Dissolved		<40 µg/l		17/05/2017	Sampling Station/Testing EA NLS	
	Antimony, Dissolved		<10 µg/l				
	Arsenic Dissolved		1.79 µg/l				
	Boron, Dissolved		2990 µg/l				
	Cadmium, Dissolved		<0.03 µg/l				
	Calcium, Dissolved		208 mg/l				
	Chromium, Dissolved		<0.5 µg/l				
	Copper, Dissolved		6.480 µg/l				
	Magnesium, Dissolved		201 mg/l				
	Manganese, Dissolved		203.0 µg/l				
	Molybdenum, Dissolved		471 µg/l				
	Nickel, Dissolved		0.40 µg/l				
	Selenium Dissolved		<1 µg/l				
	Vanadium, Dissolved		<20 µg/l				
	Mercury, Dissolved		<0.01 µg/l				
	Alkalinity to pH 4.5 as CaCO3		215 mg/l				
	Conductivity at 20C		9280 µS/cm				
	Potassium, Dissolved		85 mg/l				
	Sodium, Dissolved		1760 mg/l				
	Sulphate, Dissolved as SO4		650 mg/l				
	Nitrogen : Total Oxidised as N		1.44 mg/l				
	Chloride		3070 mg/l				
	Fluoride		0.26 mg/l				
	Ammoniacal Nitrogen as N		0.02 mg/l				
	Carbon, Organic : Total as C :- {TOC}		4.70 mg/l				
	pH		8.34 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 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 D. J. J. J. Date 27/07/17 (authorised to sign as representative of the Operator)