Reporting of Emission to Groundwater for the period from ...1st January 2015..to...30th June 2015...

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

Location: Aberthaw Ash Disposal Site

Permit/Variation Number: DP3432SW

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH3	Aluminium, Dissolved		<40 µg/l		17/02/2015	Sampling Amec/Testing EA NLS	
BH3	Antimony, Dissolved		14.4 µg/l		17/02/2015	-"-	
BH3	Arsenic Dissolved	310	194 µg/l		17/02/2015	-"-	
BH3	Boron, Dissolved	60000	24400 µg/l		17/02/2015	-"-	
BH3	Cadmium, Dissolved	15	0.092 µg/l		17/02/2015	-"-	
BH3	Calcium, Dissolved		419 mg/l		17/02/2015	-"-	
BH3	Chromium, Dissolved		<0.5 µg/l		17/02/2015	-"-	
BH3	Copper, Dissolved		<0.2 µg/l		17/02/2015	-"-	
BH3	Magnesium, Dissolved		212 mg/l		17/02/2015	-"-	
BH3	Manganese, Dissolved		280 µg/l		17/02/2015	-"-	
BH3	Molybdenum, Dissolved	9000	2700 µg/l		17/02/2015	-"-	
BH3	Nickel, Dissolved		0.363 µg/l		17/02/2015	-"-	
BH3	Selenium Dissolved	350	16.5 µg/l		17/02/2015	-"-	
BH3	Vanadium, Dissolved		40.4 µg/l		17/02/2015	-"-	
BH3	Mercury, Dissolved	20	<0.01 µg/l		17/02/2015	-"-	
BH3	Alkalinity to pH 4.5 as CaCO3		195 mg/l		17/02/2015	-"-	
BH3	Conductivity at 20C		0.066 uS/cm		17/02/2015	-"-	
BH3	Potassium, Dissolved		109 mg/l		17/02/2015	-"-	
BH3	Sodium, Dissolved		832 mg/l		17/02/2015	-"-	
BH3	Sulphate, Dissolved as SO4		1700 mg/l		17/02/2015	-"-	
BH3	Nitrogen : Total Oxidised as N		0.45 mg/l		17/02/2015	-"-	
BH3	Chloride		1260 mg/l		17/02/2015	-"-	
BH3	Fluoride		0.066 mg/l		17/02/2015	-"-	
BH3	Ammoniacal Nitrogen as N	6.6	0.825 mg/l		17/02/2015	-"-	
BH3	Carbon, Organic : Total as C :- {TOC}		<1 mg/l		17/02/2015	-"-	
BH3	pH		7.87 pH Units		17/02/2015	-"-	
BH3	Groundwater Level		6.38 mAOD		17/02/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH3	Aluminium, Dissolved		<40 µg/l		18/05/2015	Sampling Amec/Testing EA NLS	
BH3	Antimony, Dissolved		13.6 µg/l		18/05/2015	-"-	
BH3	Arsenic Dissolved	310	183 µg/l		18/05/2015	-"-	
BH3	Boron, Dissolved	60000	20500 µg/l		18/05/2015	-"-	
BH3	Cadmium, Dissolved	15	0.094 µg/l		18/05/2015	-"-	
BH3	Calcium, Dissolved		438 mg/l		18/05/2015	-"-	
BH3	Chromium, Dissolved		<0.5 µg/l		18/05/2015	-"-	
BH3	Copper, Dissolved		<0.2 µg/l		18/05/2015	-"-	
BH3	Magnesium, Dissolved		220 mg/l		18/05/2015	-"-	
BH3	Manganese, Dissolved		270 µg/l		18/05/2015	-"-	
BH3	Molybdenum, Dissolved	9000	1900 µg/l		18/05/2015	-"-	
BH3	Nickel, Dissolved		0.387 µg/l		18/05/2015	-"-	
BH3	Selenium Dissolved	350	13.3 µg/l		18/05/2015	-"-	
BH3	Vanadium, Dissolved		43.9 µg/l		18/05/2015	-"-	
BH3	Mercury, Dissolved	20	<0.01 µg/l		18/05/2015	-"-	
BH3	Alkalinity to pH 4.5 as CaCO3		214 mg/l		18/05/2015	-"-	
BH3	Conductivity at 20C		6690 uS/cm		18/05/2015	-"-	
BH3	Potassium, Dissolved		110 mg/l		18/05/2015	-"-	
BH3	Sodium, Dissolved		949 mg/l		18/05/2015	-"-	
BH3	Sulphate, Dissolved as SO4		1640 mg/l		18/05/2015	-"-	
BH3	Nitrogen : Total Oxidised as N		0.63 mg/l		18/05/2015	-"-	
BH3	Chloride		1460 mg/l		18/05/2015	-"-	
BH3	Fluoride		0.07 mg/l		18/05/2015	-"-	
BH3	Ammoniacal Nitrogen as N	6.6	0.35 mg/l		18/05/2015	-"-	
BH3	Carbon, Organic : Total as C :- {TOC}		<1 mg/l		18/05/2015	-"-	
BH3	pH		7.85 pH Units		18/05/2015	-"-	
BH3	Groundwater Level		4.32 mAOD		18/05/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH5	Aluminium, Dissolved		<10 µg/l		17/02/2015	Sampling Amec/Testing EA NLS	
BH5	Antimony, Dissolved		<1 µg/l		17/02/2015	-"-	
BH5	Arsenic Dissolved		<1 µg/l		17/02/2015	-"-	
BH5	Boron, Dissolved		450 µg/l		17/02/2015	-"-	
BH5	Cadmium, Dissolved		<0,1 µg/l		17/02/2015	-"-	
BH5	Calcium, Dissolved		240 mg/l		17/02/2015	-"-	
BH5	Chromium, Dissolved		<0,5 µg/l		17/02/2015	-"-	
BH5	Copper, Dissolved		1,48 µg/l		17/02/2015	-"-	
BH5	Magnesium, Dissolved		17,3 mg/l		17/02/2015	-"-	
BH5	Manganese, Dissolved		<10 µg/l		17/02/2015	-"-	
BH5	Molybdenum, Dissolved		<3 µg/l		17/02/2015	-"-	
BH5	Nickel, Dissolved		1,14 µg/l		17/02/2015	-"-	
BH5	Selenium Dissolved		<1 µg/l		17/02/2015	-"-	
BH5	Vanadium, Dissolved		<2 µg/l		17/02/2015	-"-	
BH5	Mercury, Dissolved		<0,01 µg/l		17/02/2015	-"-	
BH5	Alkalinity to pH 4,5 as CaCO3		360 mg/l		17/02/2015	-"-	
BH5	Conductivity at 20C		1270 uS/cm		17/02/2015	-"-	
BH5	Potassium, Dissolved		1,53 mg/l		17/02/2015	-"-	
BH5	Sodium, Dissolved		43,3 mg/l		17/02/2015	-"-	
BH5	Sulphate, Dissolved as SO4		295 mg/l		17/02/2015	-"-	
BH5	Nitrogen : Total Oxidised as N		1,15 mg/l		17/02/2015	-"-	
BH5	Chloride		68,6 mg/l		17/02/2015	-"-	
BH5	Fluoride		0,06 mg/l		17/02/2015	-"-	
BH5	Ammoniacal Nitrogen as N		0,03 mg/l		17/02/2015	-"-	
BH5	Carbon, Organic : Total as C :- {TOC}		2,1 mg/l		17/02/2015	-"-	
BH5	pH		7,09 pH Units		17/02/2015	-"-	
BH5	Groundwater Level		9,49 mAOD		17/02/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH5	Aluminium, Dissolved		26.3 µg/l		18/05/2015	Sampling Amec/Testing EA NLS	
BH5	Antimony, Dissolved		<1 µg/l		18/05/2015	-"-	
BH5	Arsenic Dissolved		<1 µg/l		18/05/2015	-"-	
BH5	Boron, Dissolved		616 µg/l		18/05/2015	-"-	
BH5	Cadmium, Dissolved		<0.1 µg/l		18/05/2015	-"-	
BH5	Calcium, Dissolved		228 mg/l		18/05/2015	-"-	
BH5	Chromium, Dissolved		<0.5 µg/l		18/05/2015	-"-	
BH5	Copper, Dissolved		1.92 µg/l		18/05/2015	-"-	
BH5	Magnesium, Dissolved		17.3 mg/l		18/05/2015	-"-	
BH5	Manganese, Dissolved		<50 µg/l		18/05/2015	-"-	
BH5	Molybdenum, Dissolved		<3 µg/l		18/05/2015	-"-	
BH5	Nickel, Dissolved		2.35 µg/l		18/05/2015	-"-	
BH5	Selenium Dissolved		<1 µg/l		18/05/2015	-"-	
BH5	Vanadium, Dissolved		<2 µg/l		18/05/2015	-"-	
BH5	Mercury, Dissolved		0.0379 µg/l		18/05/2015	-"-	
BH5	Alkalinity to pH 4.5 as CaCO3		360 mg/l		18/05/2015	-"-	
BH5	Conductivity at 20C		1170 uS/cm		18/05/2015	-"-	
BH5	Potassium, Dissolved		1.84 mg/l		18/05/2015	-"-	
BH5	Sodium, Dissolved		41.6 mg/l		18/05/2015	-"-	
BH5	Sulphate, Dissolved as SO4		297 mg/l		18/05/2015	-"-	
BH5	Nitrogen : Total Oxidised as N		0.44 mg/l		18/05/2015	-"-	
BH5	Chloride		51.4 mg/l		18/05/2015	-"-	
BH5	Fluoride		0.068 mg/l		18/05/2015	-"-	
BH5	Ammoniacal Nitrogen as N		0.03 mg/l		18/05/2015	-"-	
BH5	Carbon, Organic : Total as C :- {TOC}		<1 mg/l		18/05/2015	-"-	
BH5	pH		7.06 pH Units		18/05/2015	-"-	
BH5	Groundwater Level		9.71 mAOD		18/05/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH6	Aluminium, Dissolved		<40 µg/l		17/02/2015	Sampling Amec/Testing EA NLS	
BH6	Antimony, Dissolved		<10 µg/l		17/02/2015	-"-	
BH6	Arsenic Dissolved		16.7 µg/l		17/02/2015	-"-	
BH6	Boron, Dissolved		28800 µg/l		17/02/2015	-"-	
BH6	Cadmium, Dissolved		0.268 µg/l		17/02/2015	-"-	
BH6	Calcium, Dissolved		873 mg/l		17/02/2015	-"-	
BH6	Chromium, Dissolved		<0.5 µg/l		17/02/2015	-"-	
BH6	Copper, Dissolved		0.341 µg/l		17/02/2015	-"-	
BH6	Magnesium, Dissolved		252 mg/l		17/02/2015	-"-	
BH6	Manganese, Dissolved		1580 µg/l		17/02/2015	-"-	
BH6	Molybdenum, Dissolved		4260 µg/l		17/02/2015	-"-	
BH6	Nickel, Dissolved		5.74 µg/l		17/02/2015	-"-	
BH6	Selenium Dissolved		12.6 µg/l		17/02/2015	-"-	
BH6	Vanadium, Dissolved		<20 µg/l		17/02/2015	-"-	
BH6	Mercury, Dissolved		<0.01 µg/l		17/02/2015	-"-	
BH6	Alkalinity to pH 4.5 as CaCO3		310 mg/l		17/02/2015	-"-	
BH6	Conductivity at 20C		11100 uS/cm		17/02/2015	-"-	
BH6	Potassium, Dissolved		126 mg/l		17/02/2015	-"-	
BH6	Sodium, Dissolved		1510 mg/l		17/02/2015	-"-	
BH6	Sulphate, Dissolved as SO4		2100 mg/l		17/02/2015	-"-	
BH6	Nitrogen : Total Oxidised as N		28.8 mg/l		17/02/2015	-"-	
BH6	Chloride		2970 mg/l		17/02/2015	-"-	
BH6	Fluoride		0.121 mg/l		17/02/2015	-"-	
BH6	Ammoniacal Nitrogen as N		0.2 mg/l		17/02/2015	-"-	
BH6	Carbon, Organic : Total as C :- {TOC}		1.5 mg/l		17/02/2015	-"-	
BH6	pH		7.47 pH Units		17/02/2015	-"-	
BH6	Groundwater Level		2.22 mAOD		17/02/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH6	Aluminium, Dissolved		<40 µg/l		18/05/2015	Sampling Amec/Testing EA NLS	
BH6	Antimony, Dissolved		<10 µg/l		18/05/2015	-"-	
BH6	Arsenic Dissolved		28.2 µg/l		18/05/2015	-"-	
BH6	Boron, Dissolved		27200 µg/l		18/05/2015	-"-	
BH6	Cadmium, Dissolved		0.141 µg/l		18/05/2015	-"-	
BH6	Calcium, Dissolved		959 mg/l		18/05/2015	-"-	
BH6	Chromium, Dissolved		<0.5 µg/l		18/05/2015	-"-	
BH6	Copper, Dissolved		<0.2 µg/l		18/05/2015	-"-	
BH6	Magnesium, Dissolved		307 mg/l		18/05/2015	-"-	
BH6	Manganese, Dissolved		1540 µg/l		18/05/2015	-"-	
BH6	Molybdenum, Dissolved		4330 µg/l		18/05/2015	-"-	
BH6	Nickel, Dissolved		5.54 µg/l		18/05/2015	-"-	
BH6	Selenium Dissolved		8.23 µg/l		18/05/2015	-"-	
BH6	Vanadium, Dissolved		<20 µg/l		18/05/2015	-"-	
BH6	Mercury, Dissolved		<0.01 µg/l		18/05/2015	-"-	
BH6	Alkalinity to pH 4.5 as CaCO3		300 mg/l		18/05/2015	-"-	
BH6	Conductivity at 20C		11900 uS/cm		18/05/2015	-"-	
BH6	Potassium, Dissolved		149 mg/l		18/05/2015	-"-	
BH6	Sodium, Dissolved		1740 mg/l		18/05/2015	-"-	
BH6	Sulphate, Dissolved as SO4		2380 mg/l		18/05/2015	-"-	
BH6	Nitrogen : Total Oxidised as N		37 mg/l		18/05/2015	-"-	
BH6	Chloride		3180 mg/l		18/05/2015	-"-	
BH6	Fluoride		0.14 mg/l		18/05/2015	-"-	
BH6	Ammoniacal Nitrogen as N		0.674 mg/l		18/05/2015	-"-	
BH6	Carbon, Organic : Total as C :- {TOC}		3.4 mg/l		18/05/2015	-"-	
BH6	pH		7.43 pH Units		18/05/2015	-"-	
BH6	Groundwater Level		9.03 mAOD		18/05/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH7	Aluminium, Dissolved		<40 ug/l		17/02/2015	Sampling Amec/Testing EA NLS	
BH7	Antimony, Dissolved		<10 µg/l		17/02/2015	-"-	
BH7	Arsenic Dissolved	310	4.55 µg/l		17/02/2015	-"-	
BH7	Boron, Dissolved	60000	23200 µg/l		17/02/2015	-"-	
BH7	Cadmium, Dissolved	15	0.083 µg/l		17/02/2015	-"-	
BH7	Calcium, Dissolved		746 mg/l		17/02/2015	-"-	
BH7	Chromium, Dissolved		<0.5 µg/l		17/02/2015	-"-	
BH7	Copper, Dissolved		1.93 µg/l		17/02/2015	-"-	
BH7	Magnesium, Dissolved		138 mg/l		17/02/2015	-"-	
BH7	Manganese, Dissolved		1290 µg/l		17/02/2015	-"-	
BH7	Molybdenum, Dissolved	9000	3490 µg/l		17/02/2015	-"-	
BH7	Nickel, Dissolved		0.458 µg/l		17/02/2015	-"-	
BH7	Selenium Dissolved	350	<1 µg/l		17/02/2015	-"-	
BH7	Vanadium, Dissolved		<20 µg/l		17/02/2015	-"-	
BH7	Mercury, Dissolved	20	<0.01 µg/l		17/02/2015	-"-	
BH7	Alkalinity to pH 4.5 as CaCO3		355 mg/l		17/02/2015	-"-	
BH7	Conductivity at 20C		12300 uS/cm		17/02/2015	-"-	
BH7	Potassium, Dissolved		256 mg/l		17/02/2015	-"-	
BH7	Sodium, Dissolved		1990 mg/l		17/02/2015	-"-	
BH7	Sulphate, Dissolved as SO4		1870 mg/l		17/02/2015	-"-	
BH7	Nitrogen : Total Oxidised as N		<0.2 mg/l		17/02/2015	-"-	
BH7	Chloride		3400 mg/l		17/02/2015	-"-	
BH7	Fluoride		0.441 mg/l		17/02/2015	-"-	
BH7	Ammoniacal Nitrogen as N	6.6	3.11 mg/l		17/02/2015	-"-	
BH7	Carbon, Organic : Total as C :- {TOC}		0.441 mg/l		17/02/2015	-"-	
BH7	pH		7.27 pH Units		17/02/2015	-"-	
BH7	Groundwater Level		5.73 mAOD		17/02/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH7	Aluminium, Dissolved		<40 µg/l		18/05/2015	Sampling Amec/Testing EA NLS	
BH7	Antimony, Dissolved		<10 µg/l		18/05/2015	-"-	
BH7	Arsenic Dissolved	310	9.13 µg/l		18/05/2015	-"-	
BH7	Boron, Dissolved	60000	19800 µg/l		18/05/2015	-"-	
BH7	Cadmium, Dissolved	15	0.095 µg/l		18/05/2015	-"-	
BH7	Calcium, Dissolved		772 mg/l		18/05/2015	-"-	
BH7	Chromium, Dissolved		<0.5 µg/l		18/05/2015	-"-	
BH7	Copper, Dissolved		0.281 µg/l		18/05/2015	-"-	
BH7	Magnesium, Dissolved		128 mg/l		18/05/2015	-"-	
BH7	Manganese, Dissolved		1310 µg/l		18/05/2015	-"-	
BH7	Molybdenum, Dissolved	9000	2660 µg/l		18/05/2015	-"-	
BH7	Nickel, Dissolved		0.5 µg/l		18/05/2015	-"-	
BH7	Selenium Dissolved	350	<1 µg/l		18/05/2015	-"-	
BH7	Vanadium, Dissolved		<20 µg/l		18/05/2015	-"-	
BH7	Mercury, Dissolved	20	<0.01 µg/l		18/05/2015	-"-	
BH7	Alkalinity to pH 4.5 as CaCO3		338 mg/l		18/05/2015	-"-	
BH7	Conductivity at 20C		11900 uS/cm		18/05/2015	-"-	
BH7	Potassium, Dissolved		239 mg/l		18/05/2015	-"-	
BH7	Sodium, Dissolved		1920 mg/l		18/05/2015	-"-	
BH7	Sulphate, Dissolved as SO4		1860 mg/l		18/05/2015	-"-	
BH7	Nitrogen : Total Oxidised as N		<0.2 mg/l		18/05/2015	-"-	
BH7	Chloride		3360 mg/l		18/05/2015	-"-	
BH7	Fluoride		0.439 mg/l		18/05/2015	-"-	
BH7	Ammoniacal Nitrogen as N	6.6	3.14 mg/l		18/05/2015	-"-	
BH7	Carbon, Organic : Total as C :- {TOC}		6 mg/l		18/05/2015	-"-	
BH7	pH		7.31 pH Units		18/05/2015	-"-	
BH7	Groundwater Level		2.72 mAOD		18/05/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH8	Aluminium, Dissolved		<40 µg/l		17/02/2015	Sampling Amec/Testing EA NLS	
BH8	Antimony, Dissolved		<10 µg/l		17/02/2015	-"-	
BH8	Arsenic Dissolved		<1 µg/l		17/02/2015	-"-	
BH8	Boron, Dissolved		1820 µg/l		17/02/2015	-"-	
BH8	Cadmium, Dissolved		<0.03 µg/l		17/02/2015	-"-	
BH8	Calcium, Dissolved		207 mg/l		17/02/2015	-"-	
BH8	Chromium, Dissolved		<0.5 µg/l		17/02/2015	-"-	
BH8	Copper, Dissolved		0.235 µg/l		17/02/2015	-"-	
BH8	Magnesium, Dissolved		386 mg/l		17/02/2015	-"-	
BH8	Manganese, Dissolved		67.7 µg/l		17/02/2015	-"-	
BH8	Molybdenum, Dissolved		<30 µg/l		17/02/2015	-"-	
BH8	Nickel, Dissolved		<0.3 µg/l		17/02/2015	-"-	
BH8	Selenium Dissolved		<1 µg/l		17/02/2015	-"-	
BH8	Vanadium, Dissolved		<20 µg/l		17/02/2015	-"-	
BH8	Mercury, Dissolved		<0.01 µg/l		17/02/2015	-"-	
BH8	Alkalinity to pH 4.5 as CaCO3		700 mg/l		17/02/2015	-"-	
BH8	Conductivity at 20C		19300 uS/cm		17/02/2015	-"-	
BH8	Potassium, Dissolved		116 mg/l		17/02/2015	-"-	
BH8	Sodium, Dissolved		3800 mg/l		17/02/2015	-"-	
BH8	Sulphate, Dissolved as SO4		383 mg/l		17/02/2015	-"-	
BH8	Nitrogen : Total Oxidised as N		<0.2 mg/l		17/02/2015	-"-	
BH8	Chloride		6640 mg/l		17/02/2015	-"-	
BH8	Fluoride		0.536 mg/l		17/02/2015	-"-	
BH8	Ammoniacal Nitrogen as N		6.62 mg/l		17/02/2015	-"-	
BH8	Carbon, Organic : Total as C :- {TOC}		4 mg/l		17/02/2015	-"-	
BH8	pH		7.09 pH Units		17/02/2015	-"-	
BH8	Groundwater Level		4.55 mAOD		17/02/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH8	Aluminium, Dissolved		<40 µg/l		18/05/2015	Sampling Amec/Testing EA NLS	
BH8	Antimony, Dissolved		<10 µg/l		18/05/2015	-"-	
BH8	Arsenic Dissolved		<1 µg/l		18/05/2015	-"-	
BH8	Boron, Dissolved		2010 µg/l		18/05/2015	-"-	
BH8	Cadmium, Dissolved		<0.03 µg/l		18/05/2015	-"-	
BH8	Calcium, Dissolved		219 mg/l		18/05/2015	-"-	
BH8	Chromium, Dissolved		<0.5 µg/l		18/05/2015	-"-	
BH8	Copper, Dissolved		<0.2 µg/l		18/05/2015	-"-	
BH8	Magnesium, Dissolved		424 mg/l		18/05/2015	-"-	
BH8	Manganese, Dissolved		74.3 µg/l		18/05/2015	-"-	
BH8	Molybdenum, Dissolved		<30 µg/l		18/05/2015	-"-	
BH8	Nickel, Dissolved		<0.3 µg/l		18/05/2015	-"-	
BH8	Selenium Dissolved		<1 µg/l		18/05/2015	-"-	
BH8	Vanadium, Dissolved		<20 µg/l		18/05/2015	-"-	
BH8	Mercury, Dissolved		<0.01 µg/l		18/05/2015	-"-	
BH8	Alkalinity to pH 4.5 as CaCO3		701 mg/l		18/05/2015	-"-	
BH8	Conductivity at 20C		19200 uS/cm		18/05/2015	-"-	
BH8	Potassium, Dissolved		129 mg/l		18/05/2015	-"-	
BH8	Sodium, Dissolved		3710 mg/l		18/05/2015	-"-	
BH8	Sulphate, Dissolved as SO4		408 mg/l		18/05/2015	-"-	
BH8	Nitrogen : Total Oxidised as N		<0.2 mg/l		18/05/2015	-"-	
BH8	Chloride		6640 mg/l		18/05/2015	-"-	
BH8	Fluoride		0.561 mg/l		18/05/2015	-"-	
BH8	Ammoniacal Nitrogen as N		6.71 mg/l		18/05/2015	-"-	
BH8	Carbon, Organic : Total as C :- {TOC}		<1 mg/l		18/05/2015	-"-	
BH8	pH		7.24 pH Units		18/05/2015	-"-	
BH8	Groundwater Level		5.82 mAOD		18/05/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH9	Aluminium, Dissolved		<10 µg/l		17/02/2015	Sampling Amec/Testing EA NLS	
BH9	Antimony, Dissolved		<1 µg/l		17/02/2015	-"-	
BH9	Arsenic Dissolved		<1 µg/l		17/02/2015	-"-	
BH9	Boron, Dissolved		103 µg/l		17/02/2015	-"-	
BH9	Cadmium, Dissolved		<0.1 µg/l		17/02/2015	-"-	
BH9	Calcium, Dissolved		79.1 mg/l		17/02/2015	-"-	
BH9	Chromium, Dissolved		<0.5 µg/l		17/02/2015	-"-	
BH9	Copper, Dissolved		<1 µg/l		17/02/2015	-"-	
BH9	Magnesium, Dissolved		18.5 mg/l		17/02/2015	-"-	
BH9	Manganese, Dissolved		<10 µg/l		17/02/2015	-"-	
BH9	Molybdenum, Dissolved		<3 µg/l		17/02/2015	-"-	
BH9	Nickel, Dissolved		<1 µg/l		17/02/2015	-"-	
BH9	Selenium Dissolved		<1 µg/l		17/02/2015	-"-	
BH9	Vanadium, Dissolved		<2 µg/l		17/02/2015	-"-	
BH9	Mercury, Dissolved		<0.01 µg/l		17/02/2015	-"-	
BH9	Alkalinity to pH 4.5 as CaCO3		258 mg/l		17/02/2015	-"-	
BH9	Conductivity at 20C		564 uS/cm		17/02/2015	-"-	
BH9	Potassium, Dissolved		1.79 mg/l		17/02/2015	-"-	
BH9	Sodium, Dissolved		18.2 mg/l		17/02/2015	-"-	
BH9	Sulphate, Dissolved as SO4		28.5 mg/l		17/02/2015	-"-	
BH9	Nitrogen : Total Oxidised as N		3.15 mg/l		17/02/2015	-"-	
BH9	Chloride		28 mg/l		17/02/2015	-"-	
BH9	Fluoride		0.216 mg/l		17/02/2015	-"-	
BH9	Ammoniacal Nitrogen as N		0.03 mg/l		17/02/2015	-"-	
BH9	Carbon, Organic : Total as C :- {TOC}		1 mg/l		17/02/2015	-"-	
BH9	pH		7.59 pH Units		17/02/2015	-"-	
BH9	Groundwater Level		1.41 mAOD		17/02/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH9	Aluminium, Dissolved		<10 µg/l		18/05/2015	Sampling Amec/Testing EA NLS	
BH9	Antimony, Dissolved		<1 µg/l		18/05/2015	-"-	
BH9	Arsenic Dissolved		<1 µg/l		18/05/2015	-"-	
BH9	Boron, Dissolved		110 µg/l		18/05/2015	-"-	
BH9	Cadmium, Dissolved		<0.1 µg/l		18/05/2015	-"-	
BH9	Calcium, Dissolved		83.1 mg/l		18/05/2015	-"-	
BH9	Chromium, Dissolved		<0.5 µg/l		18/05/2015	-"-	
BH9	Copper, Dissolved		<1 µg/l		18/05/2015	-"-	
BH9	Magnesium, Dissolved		19.3 mg/l		18/05/2015	-"-	
BH9	Manganese, Dissolved		<10 µg/l		18/05/2015	-"-	
BH9	Molybdenum, Dissolved		<3 µg/l		18/05/2015	-"-	
BH9	Nickel, Dissolved		<1 µg/l		18/05/2015	-"-	
BH9	Selenium Dissolved		<1 µg/l		18/05/2015	-"-	
BH9	Vanadium, Dissolved		<2 µg/l		18/05/2015	-"-	
BH9	Mercury, Dissolved		<0.01 µg/l		18/05/2015	-"-	
BH9	Alkalinity to pH 4.5 as CaCO3		254 mg/l		18/05/2015	-"-	
BH9	Conductivity at 20C		552 uS/cm		18/05/2015	-"-	
BH9	Potassium, Dissolved		1.92 mg/l		18/05/2015	-"-	
BH9	Sodium, Dissolved		21.4 mg/l		18/05/2015	-"-	
BH9	Sulphate, Dissolved as SO4		28 mg/l		18/05/2015	-"-	
BH9	Nitrogen : Total Oxidised as N		3.02 mg/l		18/05/2015	-"-	
BH9	Chloride		31.7 mg/l		18/05/2015	-"-	
BH9	Fluoride		0.156 mg/l		18/05/2015	-"-	
BH9	Ammoniacal Nitrogen as N		0.03 mg/l		18/05/2015	-"-	
BH9	Carbon, Organic : Total as C :- {TOC}		<1 mg/l		18/05/2015	-"-	
BH9	pH		7.5 pH Units		18/05/2015	-"-	
BH9	Groundwater Level		4.69 mAOD		18/05/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH10	Aluminium, Dissolved		<40 µg/l		17/02/2015	Sampling Amec/Testing EA NLS	
BH10	Antimony, Dissolved		<10 µg/l		17/02/2015	-"-	
BH10	Arsenic Dissolved		19 µg/l		17/02/2015	-"-	
BH10	Boron, Dissolved		8410 µg/l		17/02/2015	-"-	
BH10	Cadmium, Dissolved		<0.03 µg/l		17/02/2015	-"-	
BH10	Calcium, Dissolved		369 mg/l		17/02/2015	-"-	
BH10	Chromium, Dissolved		<0.5 µg/l		17/02/2015	-"-	
BH10	Copper, Dissolved		<0.2 µg/l		17/02/2015	-"-	
BH10	Magnesium, Dissolved		569 mg/l		17/02/2015	-"-	
BH10	Manganese, Dissolved		429 µg/l		17/02/2015	-"-	
BH10	Molybdenum, Dissolved		308 µg/l		17/02/2015	-"-	
BH10	Nickel, Dissolved		<0.3 µg/l		17/02/2015	-"-	
BH10	Selenium Dissolved		<1 µg/l		17/02/2015	-"-	
BH10	Vanadium, Dissolved		<20 µg/l		17/02/2015	-"-	
BH10	Mercury, Dissolved		<0.01 µg/l		17/02/2015	-"-	
BH10	Alkalinity to pH 4.5 as CaCO3		1020 mg/l		17/02/2015	-"-	
BH10	Conductivity at 20C		23700 uS/cm		17/02/2015	-"-	
BH10	Potassium, Dissolved		195 mg/l		17/02/2015	-"-	
BH10	Sodium, Dissolved		4570 mg/l		17/02/2015	-"-	
BH10	Sulphate, Dissolved as SO4		961 mg/l		17/02/2015	-"-	
BH10	Nitrogen : Total Oxidised as N		<0.2 mg/l		17/02/2015	-"-	
BH10	Chloride		8080 mg/l		17/02/2015	-"-	
BH10	Fluoride		0.178 mg/l		17/02/2015	-"-	
BH10	Ammoniacal Nitrogen as N		42.4 mg/l		17/02/2015	-"-	
BH10	Carbon, Organic : Total as C :- {TOC}		8.3 mg/l		17/02/2015	-"-	
BH10	pH		7.39 pH Units		17/02/2015	-"-	
BH10	Groundwater Level		3.85 mAOD		17/02/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH10	Aluminium, Dissolved		<40 µg/l		18/05/2015	Sampling Amec/Testing EA NLS	
BH10	Antimony, Dissolved		<10 µg/l		18/05/2015	-"-	
BH10	Arsenic Dissolved		7.34 µg/l		18/05/2015	-"-	
BH10	Boron, Dissolved		18100 µg/l		18/05/2015	-"-	
BH10	Cadmium, Dissolved		0.068 µg/l		18/05/2015	-"-	
BH10	Calcium, Dissolved		568 mg/l		18/05/2015	-"-	
BH10	Chromium, Dissolved		<0.5 µg/l		18/05/2015	-"-	
BH10	Copper, Dissolved		<0.2 µg/l		18/05/2015	-"-	
BH10	Magnesium, Dissolved		282 mg/l		18/05/2015	-"-	
BH10	Manganese, Dissolved		1200 µg/l		18/05/2015	-"-	
BH10	Molybdenum, Dissolved		1740 µg/l		18/05/2015	-"-	
BH10	Nickel, Dissolved		<0.3 µg/l		18/05/2015	-"-	
BH10	Selenium Dissolved		<1 µg/l		18/05/2015	-"-	
BH10	Vanadium, Dissolved		<20 µg/l		18/05/2015	-"-	
BH10	Mercury, Dissolved		<0.01 µg/l		18/05/2015	-"-	
BH10	Alkalinity to pH 4.5 as CaCO3		499 mg/l		18/05/2015	-"-	
BH10	Conductivity at 20C		9920 uS/cm		18/05/2015	-"-	
BH10	Potassium, Dissolved		132 mg/l		18/05/2015	-"-	
BH10	Sodium, Dissolved		1630 mg/l		18/05/2015	-"-	
BH10	Sulphate, Dissolved as SO4		1600 mg/l		18/05/2015	-"-	
BH10	Nitrogen : Total Oxidised as N		<0.2 mg/l		18/05/2015	-"-	
BH10	Chloride		2720 mg/l		18/05/2015	-"-	
BH10	Fluoride		0.262 mg/l		18/05/2015	-"-	
BH10	Ammoniacal Nitrogen as N		4.4 mg/l		18/05/2015	-"-	
BH10	Carbon, Organic : Total as C :- {TOC}		1.4 mg/l		18/05/2015	-"-	
BH10	pH		7.4 pH Units		18/05/2015	-"-	
BH10	Groundwater Level		1.89 mAOD		18/05/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH11	Aluminium, Dissolved		<40 µg/l		17/02/2015	Sampling Amec/Testing EA NLS	
BH11	Antimony, Dissolved		<10 µg/l		17/02/2015	-"-	
BH11	Arsenic Dissolved		30.1 µg/l		17/02/2015	-"-	
BH11	Boron, Dissolved		6350 µg/l		17/02/2015	-"-	
BH11	Cadmium, Dissolved		<0.03 µg/l		17/02/2015	-"-	
BH11	Calcium, Dissolved		224 mg/l		17/02/2015	-"-	
BH11	Chromium, Dissolved		<0.5 µg/l		17/02/2015	-"-	
BH11	Copper, Dissolved		<0.2 µg/l		17/02/2015	-"-	
BH11	Magnesium, Dissolved		85.5 mg/l		17/02/2015	-"-	
BH11	Manganese, Dissolved		569 µg/l		17/02/2015	-"-	
BH11	Molybdenum, Dissolved		375 µg/l		17/02/2015	-"-	
BH11	Nickel, Dissolved		<0.3 µg/l		17/02/2015	-"-	
BH11	Selenium Dissolved		<1 µg/l		17/02/2015	-"-	
BH11	Vanadium, Dissolved		<20 µg/l		17/02/2015	-"-	
BH11	Mercury, Dissolved		<0.01 µg/l		17/02/2015	-"-	
BH11	Alkalinity to pH 4.5 as CaCO3		620 mg/l		17/02/2015	-"-	
BH11	Conductivity at 20C		2730 uS/cm		17/02/2015	-"-	
BH11	Potassium, Dissolved		43.6 mg/l		17/02/2015	-"-	
BH11	Sodium, Dissolved		268 mg/l		17/02/2015	-"-	
BH11	Sulphate, Dissolved as SO4		334 mg/l		17/02/2015	-"-	
BH11	Nitrogen : Total Oxidised as N		<0.2 mg/l		17/02/2015	-"-	
BH11	Chloride		443 mg/l		17/02/2015	-"-	
BH11	Fluoride		0.133 mg/l		17/02/2015	-"-	
BH11	Ammoniacal Nitrogen as N		1.27 mg/l		17/02/2015	-"-	
BH11	Carbon, Organic : Total as C :- {TOC}		1.7 mg/l		17/02/2015	-"-	
BH11	pH		7.48 pH Units		17/02/2015	-"-	
BH11	Groundwater Level		3.85 mAOD		17/02/2015	Sampling Amec	

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
BH11	Aluminium, Dissolved		<40 µg/l		18/05/2015	Sampling Amec/Testing EA NLS	
BH11	Antimony, Dissolved		<10 µg/l		18/05/2015	-"-	
BH11	Arsenic Dissolved		29.2 µg/l		18/05/2015	-"-	
BH11	Boron, Dissolved		7270 µg/l		18/05/2015	-"-	
BH11	Cadmium, Dissolved		<0.03 µg/l		18/05/2015	-"-	
BH11	Calcium, Dissolved		258 mg/l		18/05/2015	-"-	
BH11	Chromium, Dissolved		<0.5 µg/l		18/05/2015	-"-	
BH11	Copper, Dissolved		<0.2 µg/l		18/05/2015	-"-	
BH11	Magnesium, Dissolved		103 mg/l		18/05/2015	-"-	
BH11	Manganese, Dissolved		731 µg/l		18/05/2015	-"-	
BH11	Molybdenum, Dissolved		488 µg/l		18/05/2015	-"-	
BH11	Nickel, Dissolved		<0.3 µg/l		18/05/2015	-"-	
BH11	Selenium Dissolved		<1 µg/l		18/05/2015	-"-	
BH11	Vanadium, Dissolved		<20 µg/l		18/05/2015	-"-	
BH11	Mercury, Dissolved		<0.01 µg/l		18/05/2015	-"-	
BH11	Alkalinity to pH 4.5 as CaCO3		630 mg/l		18/05/2015	-"-	
BH11	Conductivity at 20C		3110 uS/cm		18/05/2015	-"-	
BH11	Potassium, Dissolved		55.9 mg/l		18/05/2015	-"-	
BH11	Sodium, Dissolved		360 mg/l		18/05/2015	-"-	
BH11	Sulphate, Dissolved as SO4		485 mg/l		18/05/2015	-"-	
BH11	Nitrogen : Total Oxidised as N		<0.2 mg/l		18/05/2015	-"-	
BH11	Chloride		543 mg/l		18/05/2015	-"-	
BH11	Fluoride		0.188 mg/l		18/05/2015	-"-	
BH11	Ammoniacal Nitrogen as N		1.83 mg/l		18/05/2015	-"-	
BH11	Carbon, Organic : Total as C :- {TOC}		6 mg/l		18/05/2015	-"-	
BH11	pH		7.52 pH Units		18/05/2015	-"-	
BH11	Groundwater Level		4.25 mAOD		18/05/2015	Sampling Amec	

[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 Lewis Date 28/07/15

(authorised to sign as representative of the Operator)

Reporting of Emission to Surface Water for the period from .....1st Jan 2015.....to....30th June 2015.....

Operator : RWE Generation UK plc **Form:** Water1

Location: Aberthaw Ash Disposal Site

Permit/Variation Number: DP3432SW

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
S1 (Group Five Spring)	Aluminium		8340 ug/l		19/02/2015	Sampling Station/Testing EA NLS	
S1 (Group Five Spring)	Antimony		100 ug/l		19/02/2015		
S1 (Group Five Spring)	Arsenic		35.2 µg/l		19/02/2015		
S1 (Group Five Spring)	Boron		594 ug/l		19/02/2015		
S1 (Group Five Spring)	Cadmium		0.237 ug/l		19/02/2015		
S1 (Group Five Spring)	Calcium		900 mg/l		19/02/2015		
S1 (Group Five Spring)	Chromium		1.8 ug/l		19/02/2015		
S1 (Group Five Spring)	Copper		40.9 ug/l		19/02/2015		
S1 (Group Five Spring)	Magnesium		521 mg/l		19/02/2015		
S1 (Group Five Spring)	Manganese		126 ug/l		19/02/2015		
S1 (Group Five Spring)	Molybdenum		<10 ug/l		19/02/2015		
S1 (Group Five Spring)	Nickel		0.392 ug/l		19/02/2015		
S1 (Group Five Spring)	Selenium		6.9 ug/l		19/02/2015		
S1 (Group Five Spring)	Vanadium		2600 ug/l		19/02/2015		
S1 (Group Five Spring)	Mercury		0.0122 ug/l		19/02/2015		
S1 (Group Five Spring)	Conductivity		9590 uS/cm		19/02/2015		
S1 (Group Five Spring)	Potassium		1480 mg/l		19/02/2015		
S1 (Group Five Spring)	Sodium		964 mg/l		19/02/2015		
S1 (Group Five Spring)	Sulphate		40.5 mg/l		19/02/2015		
S1 (Group Five Spring)	Nitrogen (Total Oxidised) as N		21.3 mg/l		19/02/2015		
S1 (Group Five Spring)	Chloride		2880 mg/l		19/02/2015		
S1 (Group Five Spring)	Fluoride		0.1 mg/l		19/02/2015		
S1 (Group Five Spring)	Ammoniacal Nitrogen as N		2.07 mg/l		19/02/2015		
S1 (Group Five Spring)	Carbon (Total Organic)		3.4 mg/l		19/02/2015		
S1 (Group Five Spring)	pH		7.38 pH Units		19/02/2015		

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
S1 (Group Five Spring)	Aluminium		1050 ug/l		13/05/2015	Sampling Station/Testing EA NLS	
S1 (Group Five Spring)	Antimony		192 ug/l		13/05/2015		
S1 (Group Five Spring)	Arsenic		86.1 µg/l		13/05/2015		
S1 (Group Five Spring)	Boron		87.3 ug/l		13/05/2015		
S1 (Group Five Spring)	Cadmium		0.034 ug/l		13/05/2015		
S1 (Group Five Spring)	Calcium		<100 mg/l		13/05/2015		
S1 (Group Five Spring)	Chromium		0.51 ug/l		13/05/2015		
S1 (Group Five Spring)	Copper		2.36 ug/l		13/05/2015		
S1 (Group Five Spring)	Magnesium		40.2 mg/l		13/05/2015		
S1 (Group Five Spring)	Manganese		19.9 ug/l		13/05/2015		
S1 (Group Five Spring)	Molybdenum		<10 ug/l		13/05/2015		
S1 (Group Five Spring)	Nickel		1.04 ug/l		13/05/2015		
S1 (Group Five Spring)	Selenium		6.88 ug/l		13/05/2015		
S1 (Group Five Spring)	Vanadium		204 ug/l		13/05/2015		
S1 (Group Five Spring)	Mercury		0.0117 ug/l		13/05/2015		
S1 (Group Five Spring)	Conductivity		1420 uS/cm		13/05/2015		
S1 (Group Five Spring)	Potassium		181 mg/l		13/05/2015		
S1 (Group Five Spring)	Sodium		185 mg/l		13/05/2015		
S1 (Group Five Spring)	Sulphate		27.9 mg/l		13/05/2015		
S1 (Group Five Spring)	Nitrogen (Total Oxidised) as N		<0.200 mg/l		13/05/2015		
S1 (Group Five Spring)	Chloride		305 mg/l		13/05/2015		
S1 (Group Five Spring)	Fluoride		0.538 mg/l		13/05/2015		
S1 (Group Five Spring)	Ammoniacal Nitrogen as N		0.025 mg/l		13/05/2015		
S1 (Group Five Spring)	Carbon (Total Organic)		4.4 mg/l		13/05/2015		
S1 (Group Five Spring)	pH		7.67 pH Units		13/05/2015		

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
Eastern Perimeter Drain	Aluminium		2460 ug/l		19/02/2015	Sampling Station/Testing EA NLS	
Eastern Perimeter Drain	Antimony		110 ug/l		19/02/2015		
Eastern Perimeter Drain	Arsenic		1.78 µg/l		19/02/2015		
Eastern Perimeter Drain	Boron		220 ug/l		19/02/2015		
Eastern Perimeter Drain	Cadmium		0.082 ug/l		19/02/2015		
Eastern Perimeter Drain	Calcium		183 mg/l		19/02/2015		
Eastern Perimeter Drain	Chromium		<0.5 ug/l		19/02/2015		
Eastern Perimeter Drain	Copper		1.78 ug/l		19/02/2015		
Eastern Perimeter Drain	Magnesium		211 mg/l		19/02/2015		
Eastern Perimeter Drain	Manganese		24.8 ug/l		19/02/2015		
Eastern Perimeter Drain	Molybdenum		<10 ug/l		19/02/2015		
Eastern Perimeter Drain	Nickel		0.883 ug/l		19/02/2015		
Eastern Perimeter Drain	Selenium		<1 ug/l		19/02/2015		
Eastern Perimeter Drain	Vanadium		440 ug/l		19/02/2015		
Eastern Perimeter Drain	Mercury		<0.01 ug/l		19/02/2015		
Eastern Perimeter Drain	Conductivity		1940 uS/cm		19/02/2015		
Eastern Perimeter Drain	Potassium		196 mg/l		19/02/2015		
Eastern Perimeter Drain	Sodium		335 mg/l		19/02/2015		
Eastern Perimeter Drain	Sulphate		<20 mg/l		19/02/2015		
Eastern Perimeter Drain	Nitrogen (Total Oxidised) as N		2.28 mg/l		19/02/2015		
Eastern Perimeter Drain	Chloride		337 mg/l		19/02/2015		
Eastern Perimeter Drain	Fluoride		0.107 mg/l		19/02/2015		
Eastern Perimeter Drain	Ammoniacal Nitrogen as N		0.051 mg/l		19/02/2015		
Eastern Perimeter Drain	Carbon (Total Organic)		1.9 mg/l		19/02/2015		
Eastern Perimeter Drain	pH		7.96 pH Units		19/02/2015		

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
Eastern Perimeter Drain	Aluminium		1900 ug/l		13/05/2015	Sampling Station/Testing EA NLS	
Eastern Perimeter Drain	Antimony		<40 ug/l		13/05/2015		
Eastern Perimeter Drain	Arsenic		2.26 µg/l		13/05/2015		
Eastern Perimeter Drain	Boron		176 ug/l		13/05/2015		
Eastern Perimeter Drain	Cadmium		<0.03 ug/l		13/05/2015		
Eastern Perimeter Drain	Calcium		<100 mg/l		13/05/2015		
Eastern Perimeter Drain	Chromium		<0.5 ug/l		13/05/2015		
Eastern Perimeter Drain	Copper		1.03 ug/l		13/05/2015		
Eastern Perimeter Drain	Magnesium		61.1 mg/l		13/05/2015		
Eastern Perimeter Drain	Manganese		14.1 ug/l		13/05/2015		
Eastern Perimeter Drain	Molybdenum		<10 ug/l		13/05/2015		
Eastern Perimeter Drain	Nickel		<0.3 ug/l		13/05/2015		
Eastern Perimeter Drain	Selenium		<1 ug/l		13/05/2015		
Eastern Perimeter Drain	Vanadium		328 ug/l		13/05/2015		
Eastern Perimeter Drain	Mercury		<0.01 ug/l		13/05/2015		
Eastern Perimeter Drain	Conductivity		1600 uS/cm		13/05/2015		
Eastern Perimeter Drain	Potassium		152 mg/l		13/05/2015		
Eastern Perimeter Drain	Sodium		245 mg/l		13/05/2015		
Eastern Perimeter Drain	Sulphate		<20 mg/l		13/05/2015		
Eastern Perimeter Drain	Nitrogen (Total Oxidised) as N		2.87 mg/l		13/05/2015		
Eastern Perimeter Drain	Chloride		260 mg/l		13/05/2015		
Eastern Perimeter Drain	Fluoride		0.102 mg/l		13/05/2015		
Eastern Perimeter Drain	Ammoniacal Nitrogen as N		<0.0100 mg/l		13/05/2015		
Eastern Perimeter Drain	Carbon (Total Organic)		1.1 mg/l		13/05/2015		
Eastern Perimeter Drain	pH		8.14 pH Units		13/05/2015		

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
S3 (River Thaw)	Aluminium		<700 ug/l		19/02/2015	Sampling Station/Testing EA NLS	
S3 (River Thaw)	Antimony		220 ug/l		19/02/2015		
S3 (River Thaw)	Arsenic		<1 µg/l		19/02/2015		
S3 (River Thaw)	Boron		151 ug/l		19/02/2015		
S3 (River Thaw)	Cadmium		0.121 ug/l		19/02/2015		
S3 (River Thaw)	Calcium		300 mg/l		19/02/2015		
S3 (River Thaw)	Chromium		0.71 ug/l		19/02/2015		
S3 (River Thaw)	Copper		1.51 ug/l		19/02/2015		
S3 (River Thaw)	Magnesium		24.9 mg/l		19/02/2015		
S3 (River Thaw)	Manganese		46.5 ug/l		19/02/2015		
S3 (River Thaw)	Molybdenum		<10 ug/l		19/02/2015		
S3 (River Thaw)	Nickel		0.613 ug/l		19/02/2015		
S3 (River Thaw)	Selenium		<1 ug/l		19/02/2015		
S3 (River Thaw)	Vanadium		<30 ug/l		19/02/2015		
S3 (River Thaw)	Mercury		<0.01 ug/l		19/02/2015		
S3 (River Thaw)	Conductivity		6490 uS/cm		19/02/2015		
S3 (River Thaw)	Potassium		1080 mg/l		19/02/2015		
S3 (River Thaw)	Sodium		299 mg/l		19/02/2015		
S3 (River Thaw)	Sulphate		<20 mg/l		19/02/2015		
S3 (River Thaw)	Nitrogen (Total Oxidised) as N		3.37 mg/l		19/02/2015		
S3 (River Thaw)	Chloride		1940 mg/l		19/02/2015		
S3 (River Thaw)	Fluoride		0.217 mg/l		19/02/2015		
S3 (River Thaw)	Ammoniacal Nitrogen as N		0.046 mg/l		19/02/2015		
S3 (River Thaw)	Carbon (Total Organic)		2 mg/l		19/02/2015		
S3 (River Thaw)	pH		8 pH Units		19/02/2015		

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
S3 (River Thaw)	Aluminium		<700 ug/l		13/05/2015	Sampling Station/Testing EA NLS	
S3 (River Thaw)	Antimony		112 ug/l		13/05/2015		
S3 (River Thaw)	Arsenic		<1 µg/l		13/05/2015		
S3 (River Thaw)	Boron		113 ug/l		13/05/2015		
S3 (River Thaw)	Cadmium		0.035 ug/l		13/05/2015		
S3 (River Thaw)	Calcium		177 mg/l		13/05/2015		
S3 (River Thaw)	Chromium		<0.5 ug/l		13/05/2015		
S3 (River Thaw)	Copper		1.44 ug/l		13/05/2015		
S3 (River Thaw)	Magnesium		26.1 mg/l		13/05/2015		
S3 (River Thaw)	Manganese		2.63 ug/l		13/05/2015		
S3 (River Thaw)	Molybdenum		<10 ug/l		13/05/2015		
S3 (River Thaw)	Nickel		2.29 ug/l		13/05/2015		
S3 (River Thaw)	Selenium		<1 ug/l		13/05/2015		
S3 (River Thaw)	Vanadium		<30 ug/l		13/05/2015		
S3 (River Thaw)	Mercury		<0.01 ug/l		13/05/2015		
S3 (River Thaw)	Conductivity		663 uS/cm		13/05/2015		
S3 (River Thaw)	Potassium		28.2 mg/l		13/05/2015		
S3 (River Thaw)	Sodium		31.9 mg/l		13/05/2015		
S3 (River Thaw)	Sulphate		<20 mg/l		13/05/2015		
S3 (River Thaw)	Nitrogen (Total Oxidised) as N		3.96 mg/l		13/05/2015		
S3 (River Thaw)	Chloride		44 mg/l		13/05/2015		
S3 (River Thaw)	Fluoride		0.079 mg/l		13/05/2015		
S3 (River Thaw)	Ammoniacal Nitrogen as N		0.018 mg/l		13/05/2015		
S3 (River Thaw)	Carbon (Total Organic)		1.7 mg/l		13/05/2015		
S3 (River Thaw)	pH		8.16 pH Units		13/05/2015		

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
Brackish Lagoon	Aluminium		1930 ug/l		19/02/2015	Sampling Station/Testing EA NLS	
Brackish Lagoon	Antimony		<40 ug/l		19/02/2015		
Brackish Lagoon	Arsenic		1.91 µg/l		19/02/2015		
Brackish Lagoon	Boron		172 ug/l		19/02/2015		
Brackish Lagoon	Cadmium		0.156 ug/l		19/02/2015		
Brackish Lagoon	Calcium		<100 mg/l		19/02/2015		
Brackish Lagoon	Chromium		<0.5 ug/l		19/02/2015		
Brackish Lagoon	Copper		3.03 ug/l		19/02/2015		
Brackish Lagoon	Magnesium		42.6 mg/l		19/02/2015		
Brackish Lagoon	Manganese		36.9 ug/l		19/02/2015		
Brackish Lagoon	Molybdenum		<10 ug/l		19/02/2015		
Brackish Lagoon	Nickel		0.906 ug/l		19/02/2015		
Brackish Lagoon	Selenium		<1 ug/l		19/02/2015		
Brackish Lagoon	Vanadium		353 ug/l		19/02/2015		
Brackish Lagoon	Mercury		0.0134 ug/l		19/02/2015		
Brackish Lagoon	Conductivity		3230 uS/cm		19/02/2015		
Brackish Lagoon	Potassium		459 mg/l		19/02/2015		
Brackish Lagoon	Sodium		310 mg/l		19/02/2015		
Brackish Lagoon	Sulphate		<20 mg/l		19/02/2015		
Brackish Lagoon	Nitrogen (Total Oxidised) as N		2.2 mg/l		19/02/2015		
Brackish Lagoon	Chloride		829 mg/l		19/02/2015		
Brackish Lagoon	Fluoride		0.151 mg/l		19/02/2015		
Brackish Lagoon	Ammoniacal Nitrogen as N		0.053 mg/l		19/02/2015		
Brackish Lagoon	Carbon (Total Organic)		1.7 mg/l		19/02/2015		
Brackish Lagoon	pH		8.18 pH Units		19/02/2015		

Emission point	Substance/ Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
Brackish Lagoon	Aluminium		2750 ug/l		13/05/2015	Sampling Station/Testing EA NLS	
Brackish Lagoon	Antimony		<40 ug/l		13/05/2015		
Brackish Lagoon	Arsenic		<1 µg/l		13/05/2015		
Brackish Lagoon	Boron		199 ug/l		13/05/2015		
Brackish Lagoon	Cadmium		0.036 ug/l		13/05/2015		
Brackish Lagoon	Calcium		<100 mg/l		13/05/2015		
Brackish Lagoon	Chromium		<0.5 ug/l		13/05/2015		
Brackish Lagoon	Copper		0.964 ug/l		13/05/2015		
Brackish Lagoon	Magnesium		193 mg/l		13/05/2015		
Brackish Lagoon	Manganese		75.9 ug/l		13/05/2015		
Brackish Lagoon	Molybdenum		<10 ug/l		13/05/2015		
Brackish Lagoon	Nickel		<0.3 ug/l		13/05/2015		
Brackish Lagoon	Selenium		<1 ug/l		13/05/2015		
Brackish Lagoon	Vanadium		483 ug/l		13/05/2015		
Brackish Lagoon	Mercury		<0.01 ug/l		13/05/2015		
Brackish Lagoon	Conductivity		8090 uS/cm		13/05/2015		
Brackish Lagoon	Potassium		1340 mg/l		13/05/2015		
Brackish Lagoon	Sodium		556 mg/l		13/05/2015		
Brackish Lagoon	Sulphate		<20 mg/l		13/05/2015		
Brackish Lagoon	Nitrogen (Total Oxidised) as N		1.41 mg/l		13/05/2015		
Brackish Lagoon	Chloride		2520 mg/l		13/05/2015		
Brackish Lagoon	Fluoride		0.206 mg/l		13/05/2015		
Brackish Lagoon	Ammoniacal Nitrogen as N		<0.0100 mg/l		13/05/2015		
Brackish Lagoon	Carbon (Total Organic)		3.3 mg/l		13/05/2015		
Brackish Lagoon	pH		8.02 pH Units		13/05/2015		

[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 Lawther Date 28/07/15 (authorised to sign as representative of the Operator)