

INITIALS DATE

AS 13/2/14
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OK FOR PUBLIC RELEASE

Permit Number: BT4885IT

Facility: Shotton Paper Mill

Operator: UPM-Kymmene UK Ltd

Form Number: A1



Reporting of periodically monitored emissions to air for the period from 01/07/2013 to 31/12/2013

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ⁽¹⁾	Test Method	Result Date and Time ⁽²⁾	Uncertainty ⁽³⁾
A20	Hydrogen fluoride	2 mg/m ³	Periodic over minimum 1-hour period	0.27	BS ISO 15713	16 th July 2013 10:33 – 11:33	12%
A20	Nitrous Oxide (N ₂ O)	No limit applies	Periodic over minimum 1-hour period	1.0	FTIR	18 th July 2013 11:40 – 12:40	75%
A20	Cadmium & thallium and their compounds (total)	0.05 mg/m ³	over minimum 30 minute, maximum 8 hour period	0.009	BS EN 14385	16 th July 2013 15:10 – 16:26	20%
A20	Mercury and its compounds	0.05 mg/m ³	over minimum 30 minute, maximum 8 hour period	0.0002	BS EN 13211	16 th July 2013 15:10 – 16:26	20%
A20	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5 mg/m ³	over minimum 30 minute, maximum 8 hour period	0.1	BS EN 14385	16 th July 2013 15:10 – 16:26	20%
A20	Dioxins / Furans (I-TEQ)	0.1 ng/m ³	over minimum 6 hour period, maximum 8 hour period	0.0044	BS EN 1948 Parts 1, 2 and 3	17 th July 2013 08:46 – 14:59	25%
A20	Dioxin like PCBs (WHO-TEQ Humans / Mammals) (5)	No limit applies	-	0.0036	BS EN 1948 Parts 1, 2 and 3	17 th July 2013 08:46 – 14:59	13%
A20	Dioxin like PCBs (WHO-TEQ Fish)	No limit applies	-	0.0002	BS EN 1948 Parts 1, 2 and 3	17 th July 2013 08:46 – 14:59	13%
A20	Dioxin like PCBs (WHO-TEQ Birds) (5)	No limit applies	-	0.0073	BS EN 1948 Parts 1, 2 and 3	17 th July 2013 08:46 – 14:59	13%
A20	Dioxins / Furans (WHO – TEQ Humans / Mammals) (5)	No limit applies	-	0.0047	BS EN 1948 Parts 1, 2 and 3	17 th July 2013 08:46 – 14:59	25%
A20	Dioxins / Furans (WHO – TEQ Fish)	No limit applies	-	0.0056	BS EN 1948 Parts 1, 2 and 3	17 th July 2013 08:46 – 14:59	25%
A20	Dioxins / Furans (WHO – TEQ Birds)	No limit applies	-	0.0064	BS EN 1948 Parts 1, 2 and 3	17 th July 2013 08:46 – 14:59	25%
A20	Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	-	3.2	BS ISO 11338-1 & BS ISO 11338-2	18 th July 2013 08:30 – 14:45	20%
A20	Anthracene	No limit applies	-	<0.0084 ug/m ³			20%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method	Result Date and Time ^[2]	Uncertainty ^[3]
A20	Benzo(a)anthracene	No limit applies	-	0.03 ug/m3	BS ISO 11338-1 & BS ISO 11338-2		20%
A20	Benzo(b)fluoranthene	No limit applies	-	0.05 ug/m3			20%
A20	Benzo(k)fluoranthene	No limit applies	-	0.01 ug/m3			20%
A20	Benzo(b)naph(2,1-d)thiophene	No limit applies	-	0.03 ug/m3			20%
A20	Benzo(c)phenanthrene	No limit applies	-	<0.0084 ug/m3			20%
A20	Benzo(ghi)perylene	No limit applies	-	0.04 ug/m3			20%
A20	Benzo(a)pyrene	No limit applies	-	0.02 ug/m3			20%
A20	Cholanthrene	No limit applies	-	<0.0084 ug/m3			20%
A20	Chrysene	No limit applies	-	0.10 ug/m3			20%
A20	Cyclopenta(c,d)pyrene	No limit applies	-	0.23 ug/m3			20%
A20	Dibenzo(ah)anthracene	No limit applies	-	<0.0084 ug/m3			20%
A20	Dibenzo(ai)pyrene	No limit applies	-	<0.0084 ug/m3			20%
A20	Fluoranthene	No limit applies	-	1.01 ug/m3			20%
A20	Indo[1,2,3-cd]pyrene	No limit applies	-	0.01 ug/m3			20%
A20	Naphthalene	No limit applies	-	1.64 ug/m3			20%

[1] For dioxins and dioxin-like PCBs, the result are to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum

[2] The date and time of the sample that produced the result is given.

[3] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date
(authorised to sign as representative of UPM-Kymmene UK Ltd)





Permit Number: BT4885IT
UK Ltd

Operator: UPM-Kymmene

Facility: Shotton Paper Mill

Form Number: A9

Release Point: A13, A15 & A18 (when in use)

Time/Date of sampling: Not in operation, not sampled

Discontinuous Measurement for the 3 months to 30th September 2013

Pollutant & release point	ELV (mg/m ³)	Discontinuous Measurement Form		Unit load (MW)	Fuel used during sampling period
		Measured value (mg/m ³)	Sampling method		
NOx - A13: Boiler Stack 1	450				Not in operation, not sampled
NOx - A15: Boiler Stack 3	150				Not in operation, not sampled
NOx - A18: Boiler Stack 6	150				Not in operation, not sampled

Please note: the measured value should be quoted at the appropriate reference conditions for the type of equipment being subject to emissions monitoring – see Schedule 7.

Signed

Date 07/01/2014

(Authorised to sign as representative of Operator)



Permit Number: BT4885IT
UK Ltd

Operator: UPM-Kymmene

Facility: Shotton Paper Mill

Form Number: Performance 2

Reporting of other performance indicators for the period 01/10/2013 to 31/12/2013

Parameter	Units
BOD/ADT	0.058 Kg/ADT
Suspended Solids/ADT	0.136 Kg/ADT
Ammoniacal Nitrogen/ADT	0.001 Kg/ADT
Total Phosphorus/ADT	0.006Kg/ADT
NOx/ADT	8.82 x 10-4Tonnes/ADT
CO ₂ /ADT	0.049 Tonnes/ADT
Total MRF materials accepted for sorting	51210 Tonnes
Total MRF facility throughput	50355 Tonnes
Total MRF material sent for recycling off site	33388 Tonnes
Total MRF material utilised on site for newsprint production	13514 Tonnes
Total MRF material sent off site for disposal	2941 Tonnes

Operator's comments :

Signed 

Date



Permit Number: BT4885IT
UK Ltd

Operator: UPM-Kymmene

Facility: Shotton Paper Mill

Form Number: W1

Reporting of emissions to water (other than to sewer) for the quarter from 01/10/2013 to 31/12/2013

Emission Point	Emission				Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
	Substance / Parameter	Limit Value	Reference Period					
W1	BOD	25 mg/l	Weekly		11 mg/l	BS EN 1899-1 (1998)	29.11.13 09:00	
W1	Total suspended solids	60 mg/l	Weekly. For 95% of all measured values of periodic samples taken over one month		37 mg/l	BS EN 872	01.11.13 07:00	
W1	pH max	9	Instantaneous		7.95	BS6068-2.50	Several data points	
W1	pH min	6	Instantaneous		7.08	BS6068-2.50	21.10.13 15:45	
W1	COD	-	Spot		147 mg/l		02.11.13 07:00	
W1	Ammoniacal Nitrogen	4 mg/l	Spot		0.352 mg/l		20.11.13 07:00	
W1	Temperature degrees Celsius	25° Celsius	Continuous		18.4 °C		23.10.13 07:00	
W1	Total Phosphorus	-	Spot		1.1 mg/l		21.10.13	
W1	Maximum instantaneous Flow rate	800 l/s	24 hour period beginning 00:01		735 l/s		Several data points	

Emission Point	Substance / Parameter	Emission		Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value						
W1	Maximum Daily Flow	22,000 m ³ /day	Instantaneous	14530			05.10.13	
W1	Maximum Tidal Flow	11,000 m ³ /tide	Instantaneous	7241			02.12.13 19:00	
W1	Cd (µg/m ³)	-		100				
W1	Hg (µg/m ³)	-		100				
W1	Fe (mg/m ³)	-		220				
W1	Mn (mg/m ³)	-		35				
W1	Zn (mg/m ³)	-		16				
W1	As (mg/m ³)	-		5				
W1	Cu (mg/m ³)	-		5				
W1	Cr (mg/m ³)	-		9				
W1	Ni (mg/m ³)	-		5				
W1	Pb (mg/m ³)	-		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. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date

(Authorised to sign as representative of Operator)