Permit Number: EPR/BU2489IT Operator: Sofidel UK Limited

Facility: Baglan Paper Mill Form Number: Water 1 30/09/2018

Reporting of emissions to water (other than to sewer) and land for the period from ……01/01/2020…… to …31/12/2020……..

Emission Point	Substance / Parameter	Emission Limit Value [10]	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4] [5]
W1	Biological Oxygen Demand (BOD)	25 mg/l	24-hour flow proportional composite sample	16 mg/L	GLPMETH030-005 by titrimetry	04/01/2020	
W1	Chemical Oxygen Demand (COD)[7]	1.5 kg/T	Annually	0.3761Kg/T	GLPMETH030-008 by digestion with acidic potassium dichromate and colorimetry		
W1	Total Suspended Solids	0.35 kg/T	Annually	0.0832Kg/T	GLPMETH030-003 by gravimetry		
W1	Total Mercury and its compounds	--	24-hour flow proportional composite sample	<0.2 µg/L	Method LL M Mercury CVAFS Test Code 247/248 & Method WAS013 CVAFS	28/01/2020 12/05/2020 15/09/2020 24/11/2020	
W1	Total Cadmium and its compounds	--	24-hour flow proportional composite sample	<0.1 µg/L	Method LL001 NRW ICPMS-CRC Test Code 1409/1410 & Method WAS076 ICP-MS	28/01/2020	
W1	pH	9	Instantaneous	8.04	Standard Sensor	27/12/2020	
W1	pH	6	Instantaneous	6.22	Standard Sensor	25/10/2020	
W1	Priority Hazardous Substances Screen [8]	--	24-hour flow proportional composite sample	Please see report Priority Hazardous Substances Submission	GCMS analysis at UKAS accredited laboratory	Reported	

Emission Point	Substance / Parameter	Emission Limit Value [10]	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4] [5]
W1	Temperature	Maximum 40°C	Instantaneous	30.0°C	Standard Temperature Sensor	26/06/2020	
W1	Flow rate	30 l/s	Instantaneous	10.6 l/s	MCERTS self-monitoring of effluent flow scheme	11/11/2020	
W1	Maximum daily volume[6]	850 m^3/day	Instantaneous	Max/Mean m^3/day Jan;603/441 Feb;570/445 Mar;623/402 Apr;529/412 May;599/417 June;591/449 July;777/478 Aug;758/407 Sept;633/412 Oct;618/474 Nov;920/486 Dec;749/493	MCERTS self-monitoring of effluent flow scheme	Jan;22/01/2020 Feb;28/02/2020 Mar;18/03/2020 Apr;27/04/2020 May;03/05/2020 June;27/06/2020 July;01/07/2020 Aug;03/08/2020 Sept;09/09/2020 Oct;25/10/2020 Nov;11/11/2020 shutdown Dec;17/12/2020	
W1	Total Nitrogen	0.15 kg/T	Annually	0.0235 Kg/T	Method WAS022 segmented flow analyser		
W1	Total Phosphorus	0.012 kg/T	Annually	0.0071 Kg/T	Method WAS076 ICP-MS		
W1	AO_x	0.05 kg/T	Annually	0.0005 Kg/T	Method 3023 using CL10-AOX analyser	15/01/2020 03/03/2020 12/05/2020 15/07/2020 08/09/2020 03/11/2020	
W1	Fe	--	24-hour flow proportional composite sample	139.3 µg/L	Method LL M ICPOES Test code 38 (total) & 37 (dissolved)	28/01/2020	
W1	Pb	--	24-hour flow proportional composite sample	<2 µg/L	Method LL001 NRW ICPMS-CRC Test code 1409 (total) & 1410 (dissolved)	28/01/2020	

W1	Zn	--	24-hour flow proportional composite sample	85.49 µg/L	Method LL001 NRW ICPMS-CRC Test code 1409 (total) & 1410 (dissolved)	28/01/2020	
W1	As	--	24-hour flow proportional composite sample	4.559 µg/L	Method LL001 NRW ICPMS-CRC Test code 1409 (total) & 1410 (dissolved)	28/01/2020	
W1	Cu	--	24-hour flow proportional composite sample	3.384 µg/L	Method LL001 NRW ICPMS-CRC Test code 1409 (total) & 1410 (dissolved)	28/01/2020	
W1	Cr	--	24-hour flow proportional composite sample	0.862 µg/L	Method LL001 NRW ICPMS-CRC Test code 1409 (total) & 1410 (dissolved)	28/01/2020	
W1	Ni	--	24-hour flow proportional composite sample	2.665 µg/L	Method LL001 NRW ICPMS-CRC Test code 1409 (total) & 1410 (dissolved)	28/01/2020	

[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 Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] 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.

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

[5] In the case of results for the Hazardous pollutants screen supply the quoted Limit of Detection (LOD) with the result.

[6] In the case of daily flow supply the maximum and mean figure for each month within the 6 month reporting window.

[7] If TOC is already monitored as a key process parameter, there is no need to measure COD, however the correlation between the two parameters must established and checked regularly.

[8] Hazardous pollutants screen substances are: Anthracene, Brominated diphenyl ether, Cadmium, C10-13 Chloroalkanes, Endosulphan, Hexachlorobenzene, Hexachlorobutadiene, Hexachloro-cyclohexane, Mercury and its compounds, Nonylphenol (4-Nonylphenol), Pentachlorobenzene, Polycyclic aromatic Hydrocarbons (PAHs), Tributyltin compounds (Tributyltin-cation) Report submitted January 2021 for Water Framework Directive Priority Hazardous Substances

[9] For integrated or multi product mills where the BAT AEL range has been calculated according to a mixing rule based on their share of the discharge, based on information supplied by the Operator, the Operator must notify Natural Resources Wales if the product/ raw material mix changes by more than 10% in any direction.

[10] Kg/T Net annual production used for calculations based on BREF definition

Signed ……. Date 27/01/2021

(Authorised to sign as representative of Operator)