

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 from01/01/2022..... to ...31/12/2022.....

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	59 mg/L	GLPMETH030-005 by titrimetry	11/05/2022-Schedule 5 notification submitted	
W1	Chemical Oxygen Demand (COD) ^[7]	1.5 kg/T	Annually	0.4197kg/T	GLPMETH030-008 by digestion with acidic potassium dichromate and colorimetry		
W1	Total Suspended Solids	0.35 kg/T	Annually	0.0575 kg/T	GLPMETH030-003 by gravimetry		
W1	Total Mercury and its compounds	--	24-hour flow proportional composite sample	<0.2 µg/l	Method ALS WAS013 CVAFS	08/03/2022 29/06/2022 13/09/2022 20/12/2022	
W1	Total Cadmium and its compounds	--	24-hour flow proportional composite sample	<0.1 µg/l	Method ALS WAS 076 ICP-MS	08/03/2022 29/06/2022 13/09/2022 20/12/2022	
W1	pH	9	Instantaneous	8.02	Standard Sensor	03/01/2022	
W1	pH	6	Instantaneous	6	Standard Sensor	07/12/2022	
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	04/10/2022 07:30	

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	24.3°C	Standard Temperature Sensor	08/08/2022	
W1	Flow rate	30 l/s	Instantaneous	10 l/s	MCERTS self-monitoring of effluent flow scheme		
W1	Maximum daily volume ^[6]	850 m ³ /day	Instantaneous	Max/Mean m ³ /day. Jan; 640/414 Feb; 592/375 Mar; 608/415 Apr; 665/392 May; 574/242 Jun; 513/265 Jul; 746/364 Aug; 896/343 Sep; 584/354 Oct; 896/283 Nov; 757/319 Dec; 534/319	MCERTS self-monitoring of effluent flow scheme	Jan; 08/01/2022 Feb; 24/02/2022 Mar; 19/03/2022 Apr; 05/04/2022 May; 02/05/2022 Jun; 17/06/2022 Jul; 07/07/2022 Aug; 16/08/2022 SHUTDOWN Sep; 12/09/2022 Oct; 17/10/2022 SHUTDOWN Nov; 01/11/2022 Dec; 09/12/2022	
W1	Total Nitrogen	0.15 kg/T	Annually	0.0142 kg/T	Method ALS TM212 High Temperature Catalytic Oxidation		
W1	Total Phosphorus	0.012 kg/T	Annually	0.0018 kg/T	Method ALS WAS076 ICP-MS		
W1	AO _x	0.05 kg/T	Annually	0.0004 kg/T	Method 3023 using CL10-AOX analyser		
W1	Fe	--	24-hour flow proportional composite sample	155 µg/l	Method ALS WAS 076 ICP-MS	08/03/2022	
W1	Pb	--	24-hour flow proportional composite sample	<2 µg/l	Method ALS WAS 076 ICP-MS	08/03/2022	
W1	Zn	--	24-hour flow proportional composite sample	39 µg/l	Method ALS WAS 076 ICP-MS	08/03/2022	

W1	As	--	24-hour flow proportional composite sample	0.34 µg/l	Method ALS WAS 076 ICP-MS	08/03/2022	
W1	Cu	--	24-hour flow proportional composite sample	7.4 µg/l	Method ALS WAS 076 ICP-MS	08/03/2022	
W1	Cr	--	24-hour flow proportional composite sample	0.862 µg/l	Method ALS WAS 076 ICP-MS	08/03/2022	
W1	Ni	--	24-hour flow proportional composite sample	1.6 µg/l	Method ALS WAS 076 ICP-MS	08/03/2022	

[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 be 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 2022 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

 (Authorised to sign as representative of Operator)

30.01.2023
 Date.....