

Air Emission Monthly Report

UPM-Kymmene (UK)

Permit Number EPR/BT4885IT
Installation Shotton Paper Mill

To
Matthew Kelk
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

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Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 31st December 2019.

During the month there was a period from 8th to 10 December inclusive in which there are no results this was due to an unplanned shutdown of the Boiler to repair a leak on the Secondary Superheater

If you require any further information or clarification please let me know

Best Regards

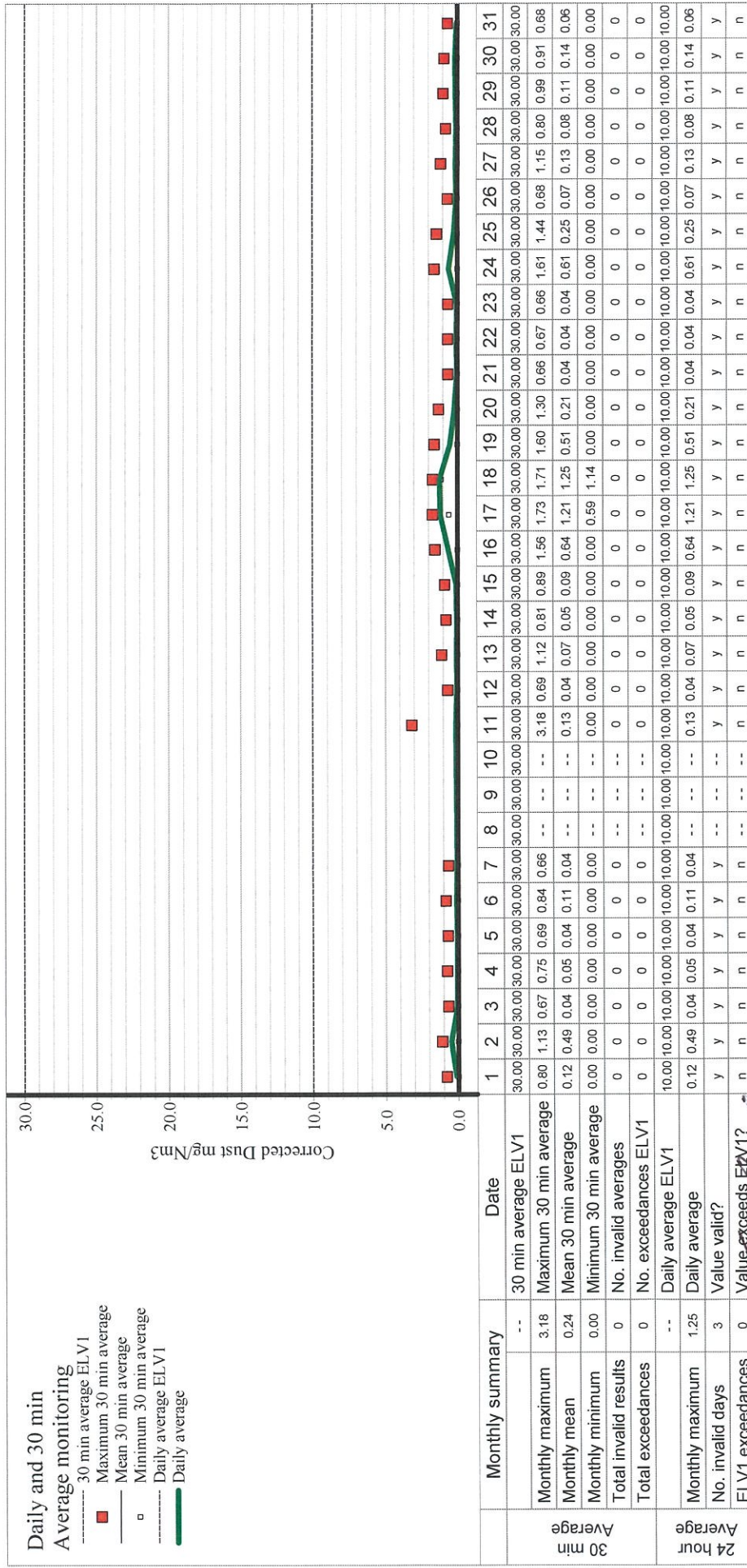


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Utilities Manager
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App# 1 13th November

Reporting of Continuously Monitored Emissions to Air for Particulates for the month of December 2019



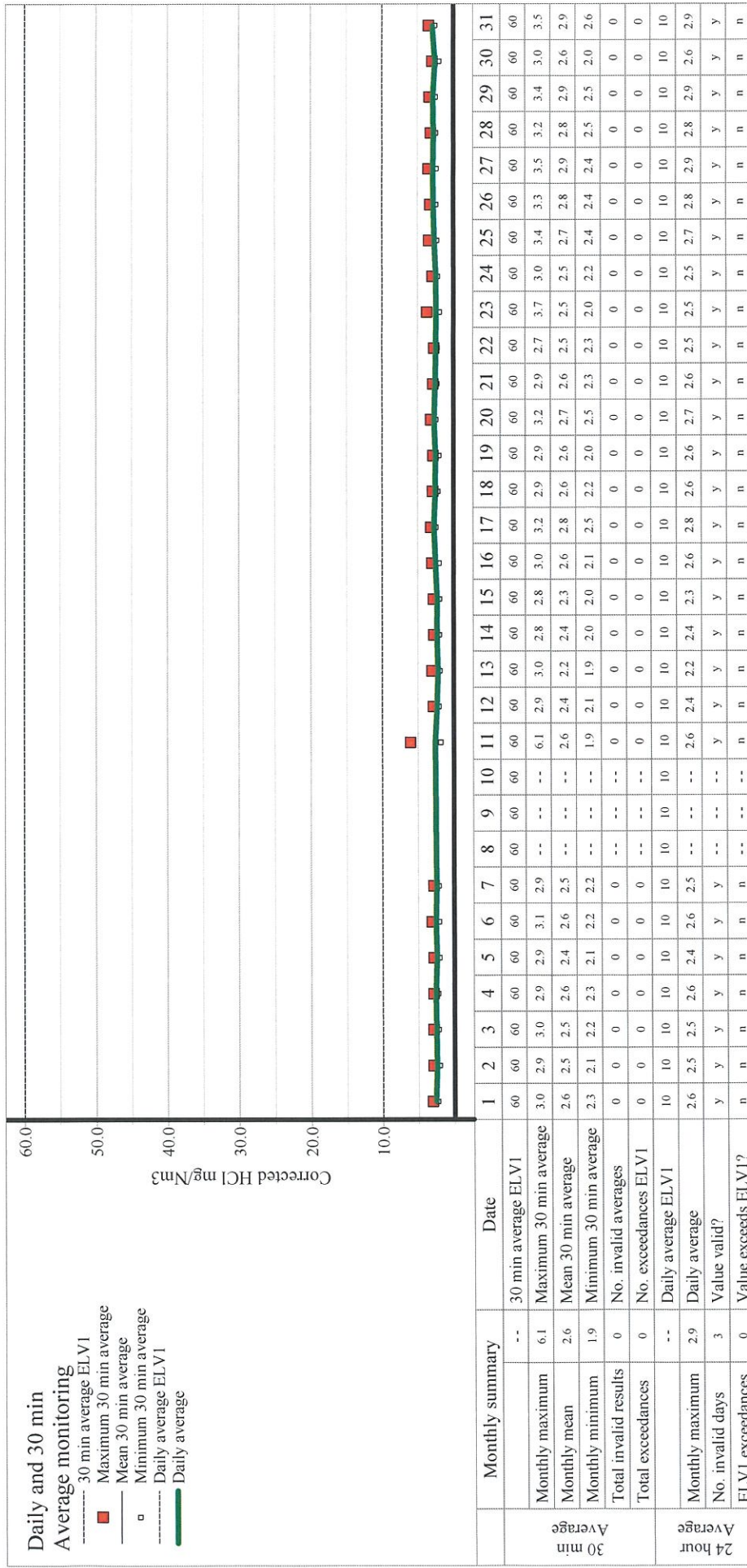
Signed  Date 10/1/2020

(Authorised to sign as representative of Operator)

Permit Reference Number: BT4885IT
Facility: Shotton Paper Mill

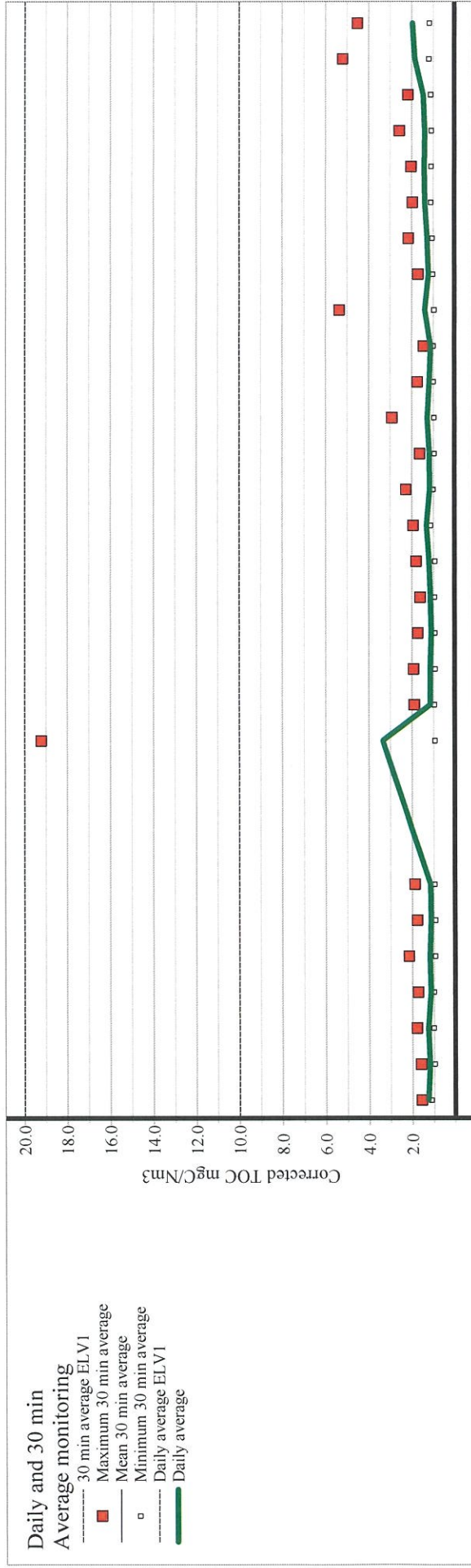
Operator: UPM-Kymmene (UK) Ltd
Form Number: A3

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride for the month of December 2019

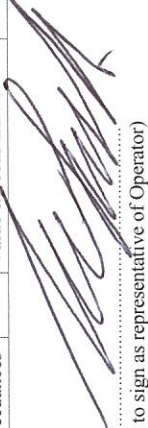


Signed  Date 10/1/2020
(Authorised to sign as representative of Operator)

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of December 2019

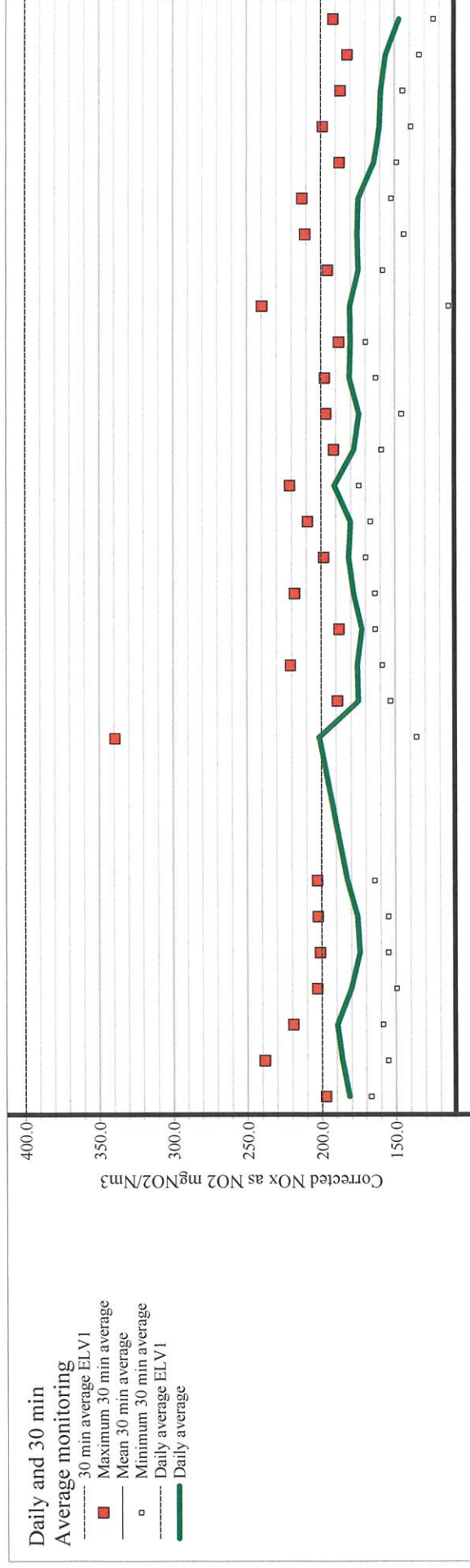


30 min Average	Monthly summary		Date																														
	--	30 min average ELV1	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	19.2	Maximum 30 min average	1.6	1.6	1.8	1.7	2.1	1.8	1.9	--	--	--	19.2	1.9	1.9	1.7	1.6	1.8	1.9	2.3	1.6	2.9	1.7	1.5	5.4	1.7	2.2	2.0	2.0	2.6	2.2	5.2	4.5
	1.4	Monthly mean	1.3	1.2	1.3	1.1	1.2	1.1	1.2	--	--	--	3.3	1.1	1.1	1.1	1.1	1.2	1.3	1.2	1.2	1.3	1.2	1.1	1.4	1.2	1.3	1.4	1.4	1.5	1.9	2.0	
	0.9	Monthly minimum	1.1	1.0	1.0	1.0	0.9	0.9	1.0	--	--	--	0.9	1.0	0.9	0.9	1.0	0.9	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.2	1.2	
	0	Total invalid results	0	0	0	0	0	0	0	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	Total exceedances	0	0	0	0	0	0	0	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	--	Daily average ELV1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	3.3	Monthly maximum	1.3	1.2	1.3	1.1	1.2	1.1	1.2	--	--	--	3.3	1.1	1.1	1.1	1.1	1.2	1.3	1.2	1.2	1.3	1.2	1.1	1.4	1.2	1.3	1.4	1.4	1.5	1.9	2.0	
	24 hour Average	No. invalid days	3	y	y	y	y	y	y	--	--	--	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y
ELV1 exceedances		0	n	n	n	n	n	n	--	--	--	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n

Signed  Date 10/1/2020

(Authorised to sign as representative of Operator)

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen for the month of December 2019



	Monthly summary		Date																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		--	30 min average ELV1	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	No. invalid results	Total invalid results	No. exceedances	Daily average ELV1	Daily average	Value valid?	Value exceeds ELV1?	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Average 30 min	Monthly maximum	337.6	197.4	238.6	219.3	203.0	201.1	202.5	202.9	--	--	337.6	189.1	220.8	188.1	217.9	198.3	209.1	221.2	191.4	196.8	197.6	187.9	239.8	195.5	210.8	212.6	187.5	198.8	186.8	182.1	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191

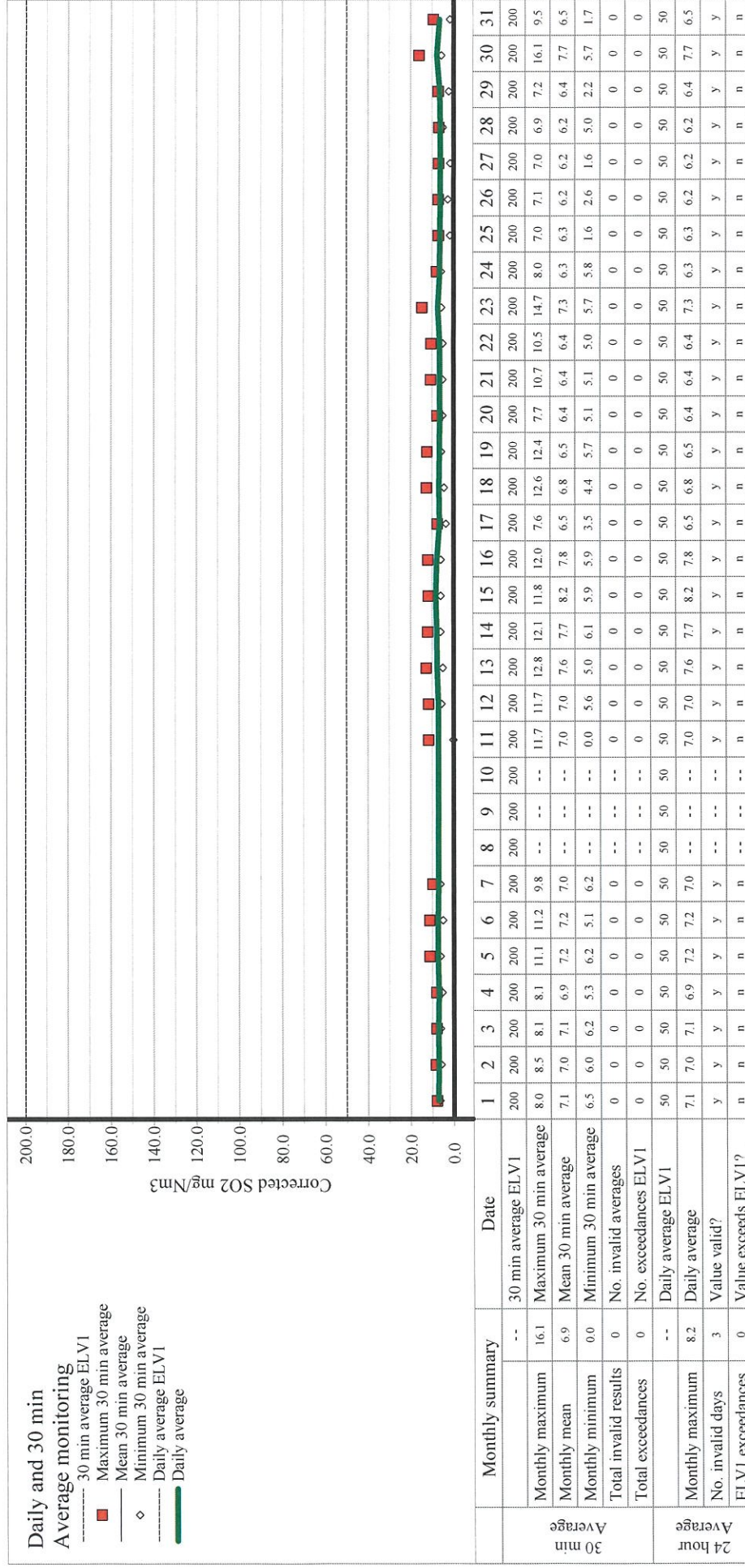
Signed:  Date: 10/1/2020

(Authorised to sign as representative of Operator)

Permit Number: BT4885IT
Facility: Shotton Paper Mill

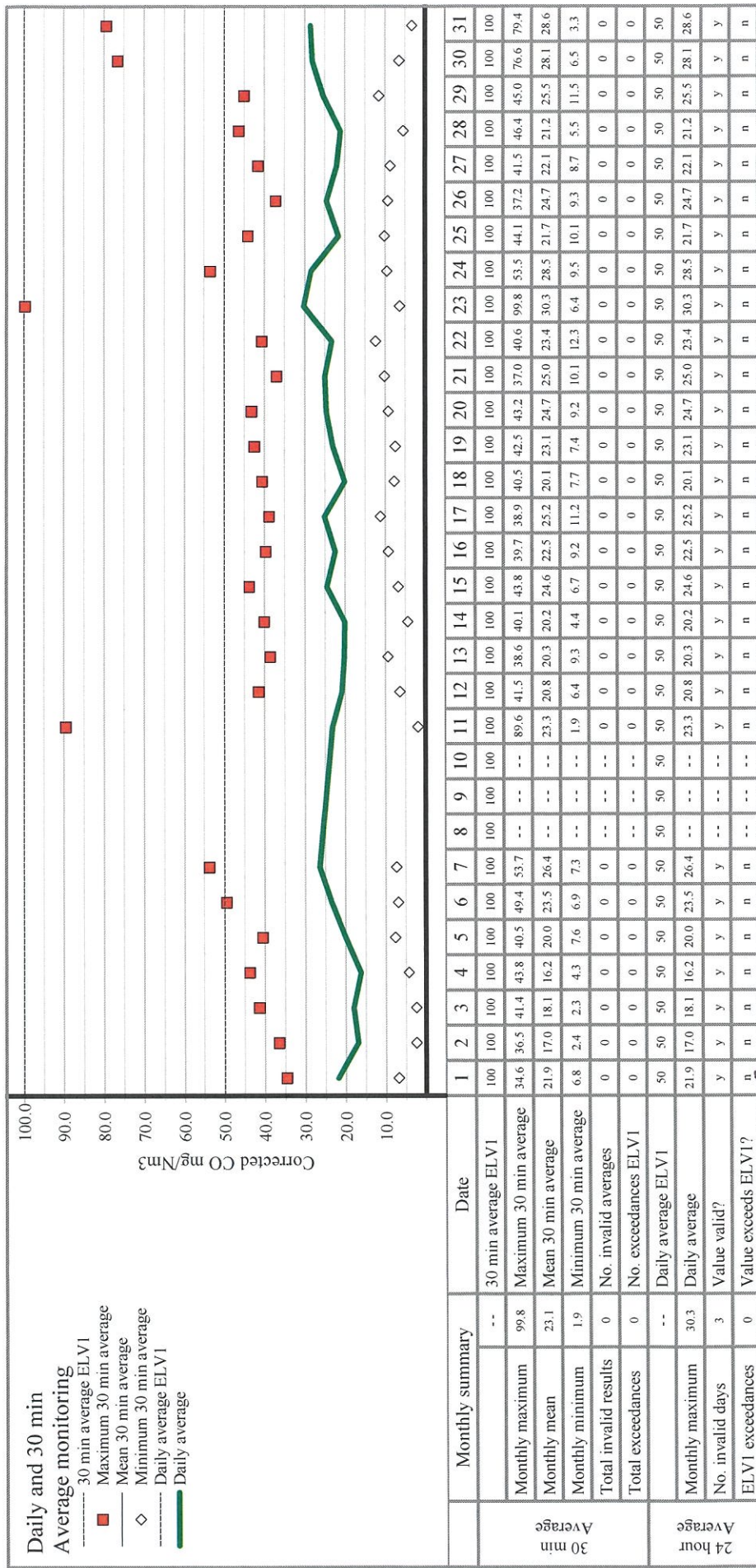
Operator: UPM-Kymmene (UK) Ltd
Form Number: A6

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide for the month of December 2019



Signed:  Date: 16/1/2020
(Authorised to sign as representative of Operator)

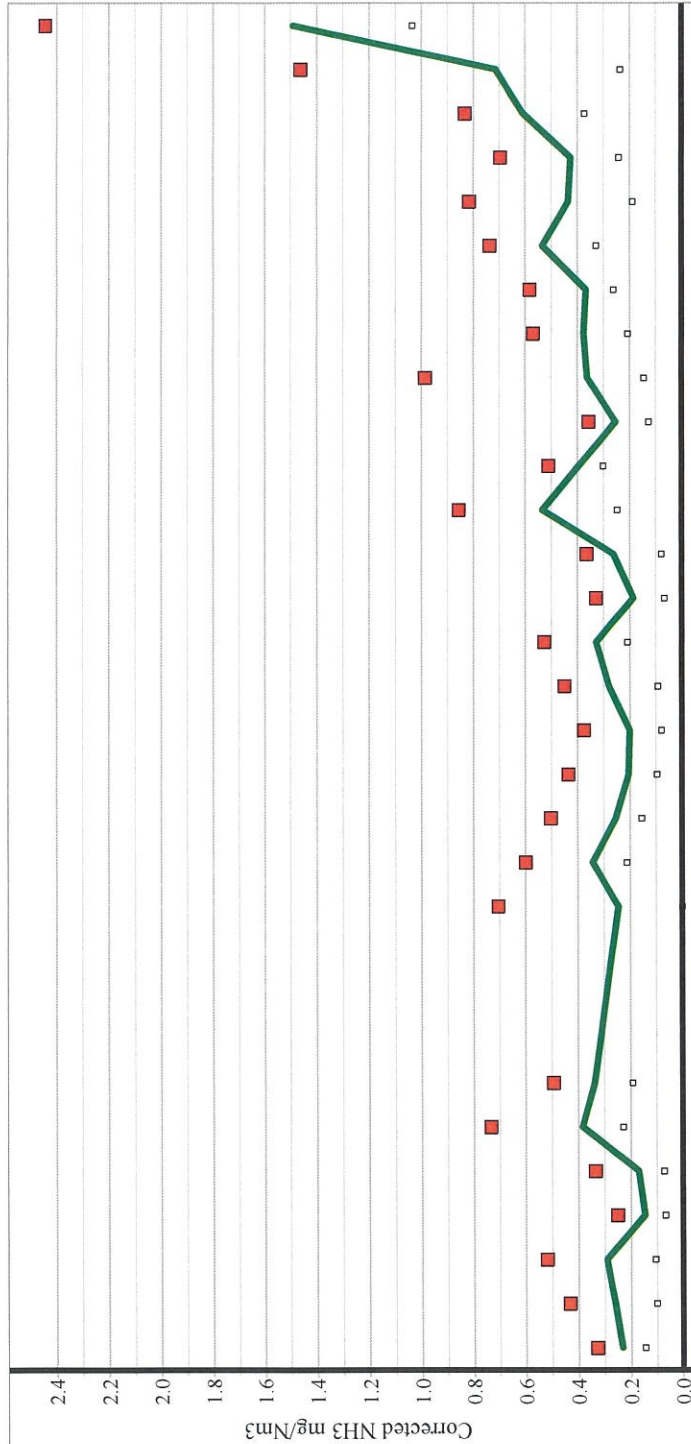
Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide for the month of December 2019



Signed:  Date: 10/12/2020
(Authorised to sign as representative of Operator)

Reporting of Continuously Monitored Emissions to Air for Ammonia for the month of December 2019

**Daily and 30 min
Average monitoring**
■ Maximum 30 min average
— Mean 30 min average
□ Minimum 30 min average
— Daily average



30 min average	Monthly summary		Date																															
	Monthly maximum	2.4	Maximum 30 min average	0.3	0.4	0.5	0.2	0.3	0.7	0.5	--	--	--	0.7	0.6	0.5	0.4	0.4	0.5	0.3	0.4	0.9	0.5	0.4	1.0	0.6	0.6	0.7	0.8	0.7	0.8	1.5	2.4	
	Monthly mean	0.4	Mean 30 min average	0.2	0.3	0.3	0.1	0.2	0.4	0.3	--	--	--	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.5	0.4	0.3	0.4	0.4	0.4	0.5	0.4	0.6	0.7	1.5	
	Monthly minimum	0.0	Minimum 30 min average	0.1	0.1	0.1	0.1	0.1	0.2	0.2	--	--	--	--	0.0	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.3	0.1	0.1	0.2	0.3	0.2	0.2	0.4	0.2	1.0	
	Total invalid results	0	No. invalid averages	0	0	0	0	0	0	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24 hour average	Monthly maximum	1.5	Daily average	0.2	0.3	0.3	0.1	0.2	0.4	0.3	--	--	--	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.5	0.4	0.3	0.4	0.4	0.4	0.5	0.4	0.6	0.7	1.5	
	No. invalid days	3	Value valid?	y	y	y	y	y	y	y	--	--	--	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	

Signed  Date 10/1/2020
(Authorised to sign as representative of Operator)