

Month End Report

UPM-Kymmene (UK)

Permit Reference PP3936SQ
Installation Shotton Paper

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 28th February 2017.

During the period there have not been any reportable exceedances, you will however note that commencing Friday 3rd February through until 14th February there have been instances of either exceedances / invalid or in fact no data. This occurred whilst solid fuel was off during an unplanned shutdown due to a water tube leak within the furnace wall tubes.

In addition on 21st February again there is no data recorded, this occurred when we had to shutdown the Boiler to enable the replacement of the pressure relief valve which started passing.

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

Best Regards



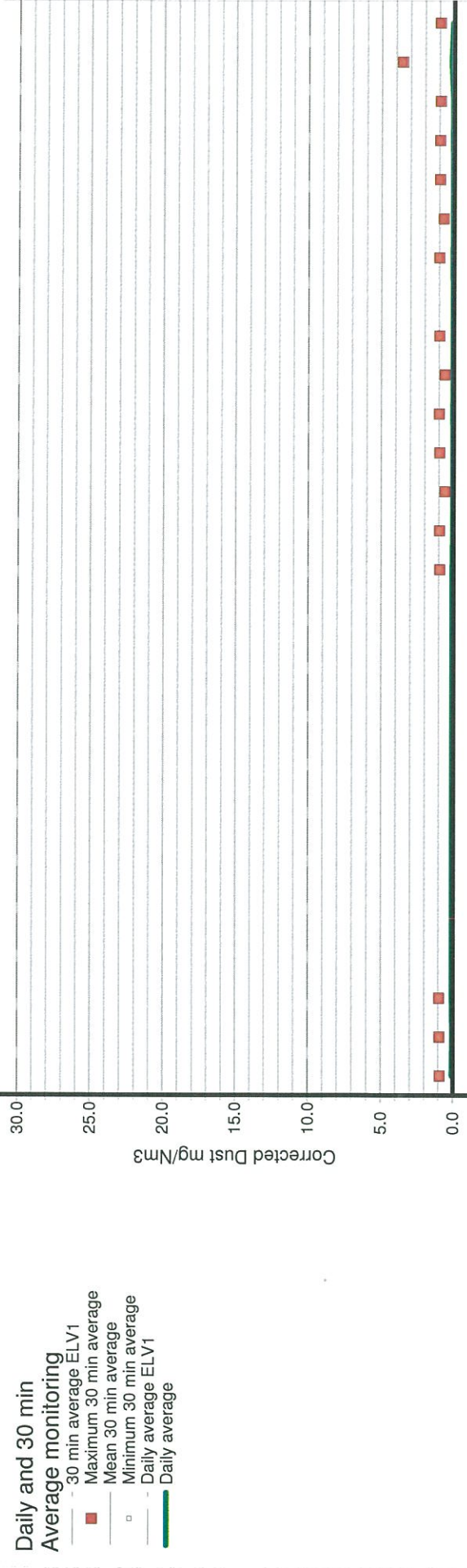
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Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A2 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of February 2017



Average	Monthly summary		Date																																				
	30 min	Average	30 min average ELV1	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	Total invalid results	Total exceedances	0	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		
30 min	Monthly maximum	3.55	--	0.93	0.96	0.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.96	0.97	0.60	0.98	0.99	0.60	0.99	--	1.01	0.69	0.98	0.98	0.93	3.55	0.94	
	Monthly mean	0.06		0.07	0.04	0.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.06	0.04	0.04	0.05	0.06	0.04	0.05	--	0.05	0.04	0.05	0.06	0.04	0.16	0.05		
	Monthly minimum	0.00		0.00	0.00	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total invalid results	5		0	0	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0	0	0	--	0	0	0	0	0	0	0	0	0
24 hour	Total exceedances	0		0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--	0	0	0	0	0	0	0	0	0
	Monthly maximum	0.16		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
	No. invalid days	11		0.07	0.04	0.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.06	0.04	0.04	0.05	0.06	0.04	0.05	--	0.05	0.04	0.05	0.06	0.04	0.16	0.05		
	Value valid?	11		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

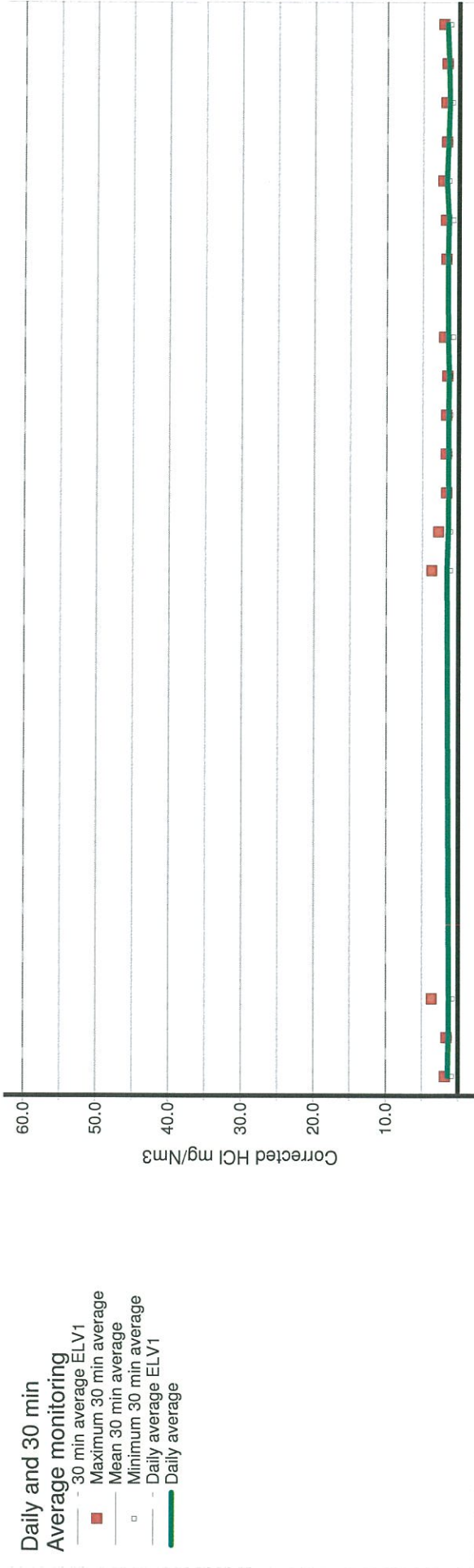
Signed
(Authorised to sign as representative of Operator)

Date: 24/4/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Form Number: Agency Form / PP3936SQ /A3 /Form Dated May 06

Operator: UPM-Kymmene (UK) Ltd
Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of February 2017



Monthly summary		Date																											
30 min Average	Monthly maximum	--	30 min average ELV1	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	Monthly mean	3.7	Maximum 30 min average	1.8	1.6	3.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Monthly minimum	1.5	Mean 30 min average	1.4	1.3	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Total invalid results	0.8	Minimum 30 min average	0.8	1.1	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24 hour Average	Total exceedances	5	No. invalid averages	0	0	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	No. exceedances ELV1	0	No. exceedances ELV1	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Monthly maximum	--	Daily average ELV1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	No. invalid days	1.7	Daily average	1.4	1.3	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ELV1 exceedances	Value valid?	11	Value valid?	y	y	y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Value exceeds ELV1?	0	Value exceeds ELV1?	n	n	n	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Signed
(Authorised to sign as representative of Operator)

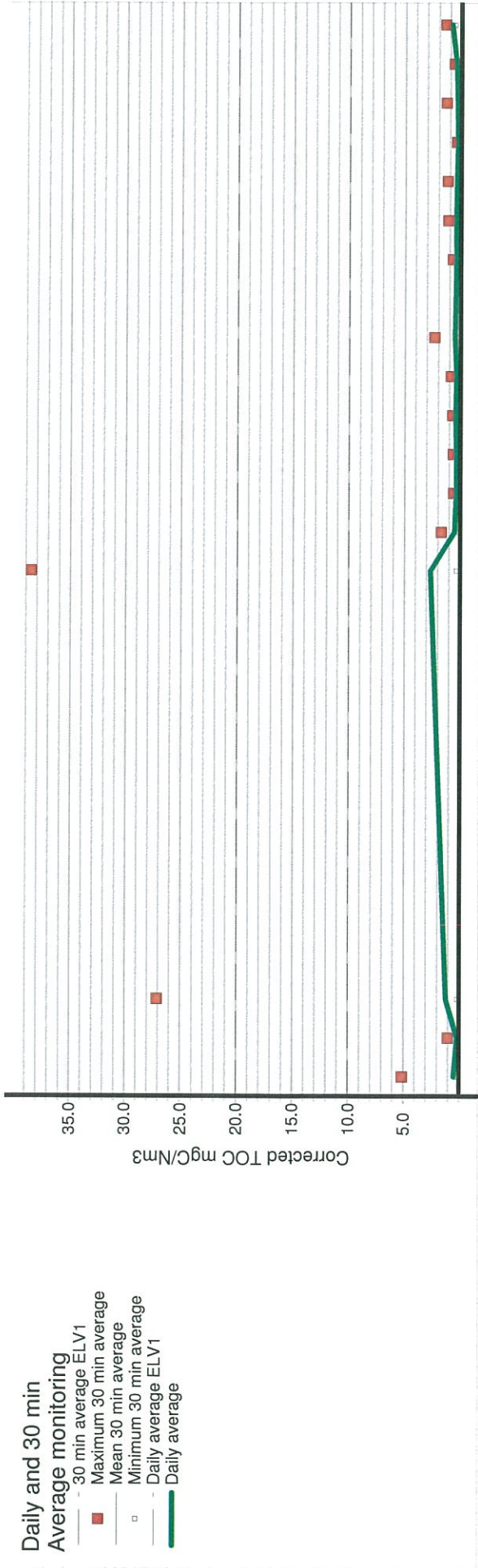
Date: 26/4/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Form Number: Agency Form / PP3936SQ /A4 /Form Dated May 06

Operator: UPM-Kymmene (UK) Ltd

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of February 2017



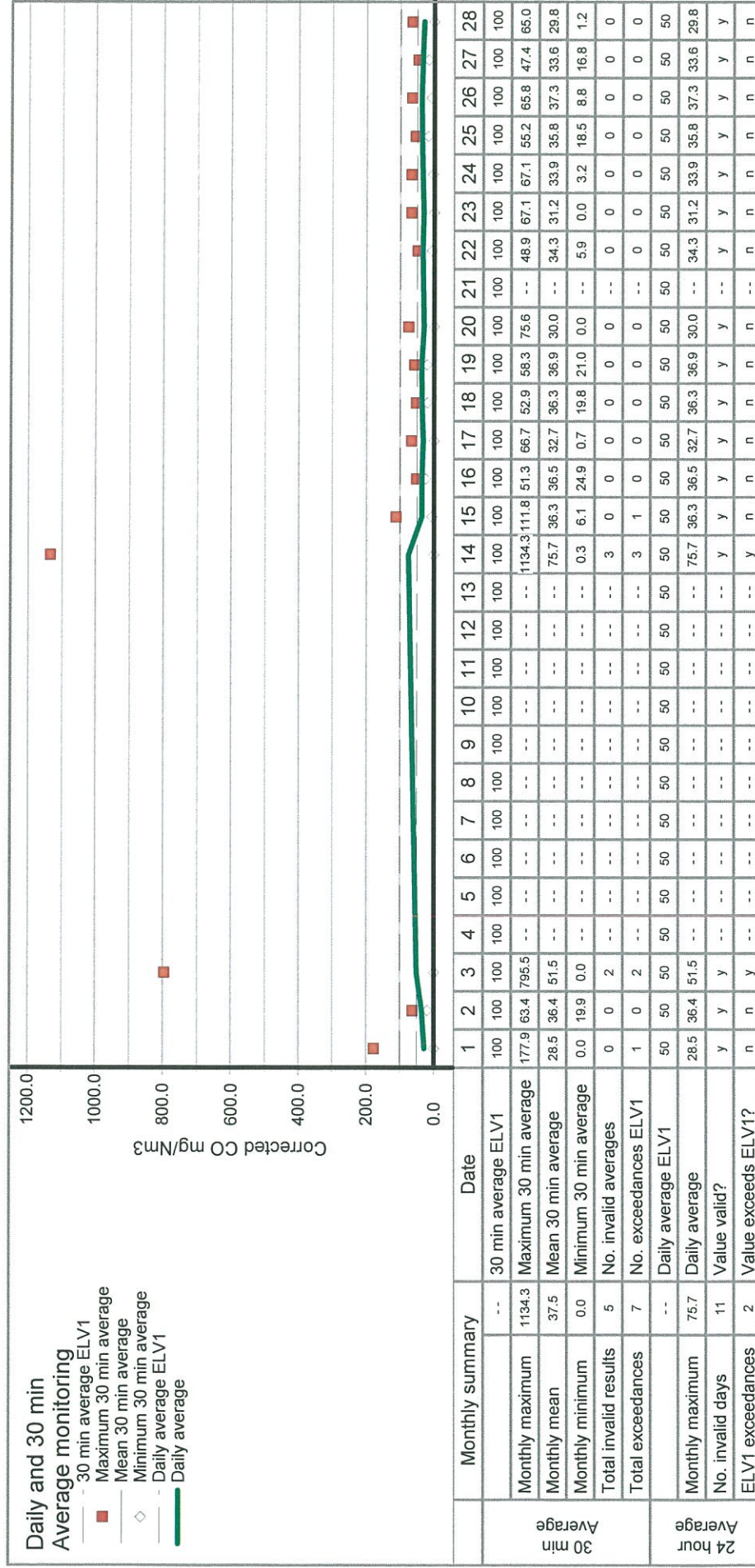
Monthly summary		Date																															
30 min Average	--	30 min average ELV1																															
	Monthly maximum	38.5	5.1	1.0	27.1	--	--	--	--	--	--	--	--	--	--	--	--	--	38.5	1.7	0.6	0.7	0.9	2.3	--	0.7	1.1	1.2	0.4	1.3	0.6	1.4	
	Monthly mean	0.6	0.5	0.2	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	2.7	0.5	0.4	0.4	0.5	0.4	0.5	--	0.4	0.4	0.3	0.3	0.4	0.8	
	Monthly minimum	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	0.3	0.3	0.3	0.3	0.3	0.3	0.3	--	0.2	0.2	0.2	0.2	0.3	0.2	0.6
	Total invalid results	5	0	0	2	--	--	--	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0	0	0	--	0	0	0	0	0	0	0
24 hour Average	3	No. exceedances ELV1																															
	--	Daily average ELV1																															
	2.7	Daily average																															
	11	Value valid?																															
	0	Value exceeds ELV1?																															

Signed Date 24/4/17
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A5 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide Emission Point A20 for the month of February 2017



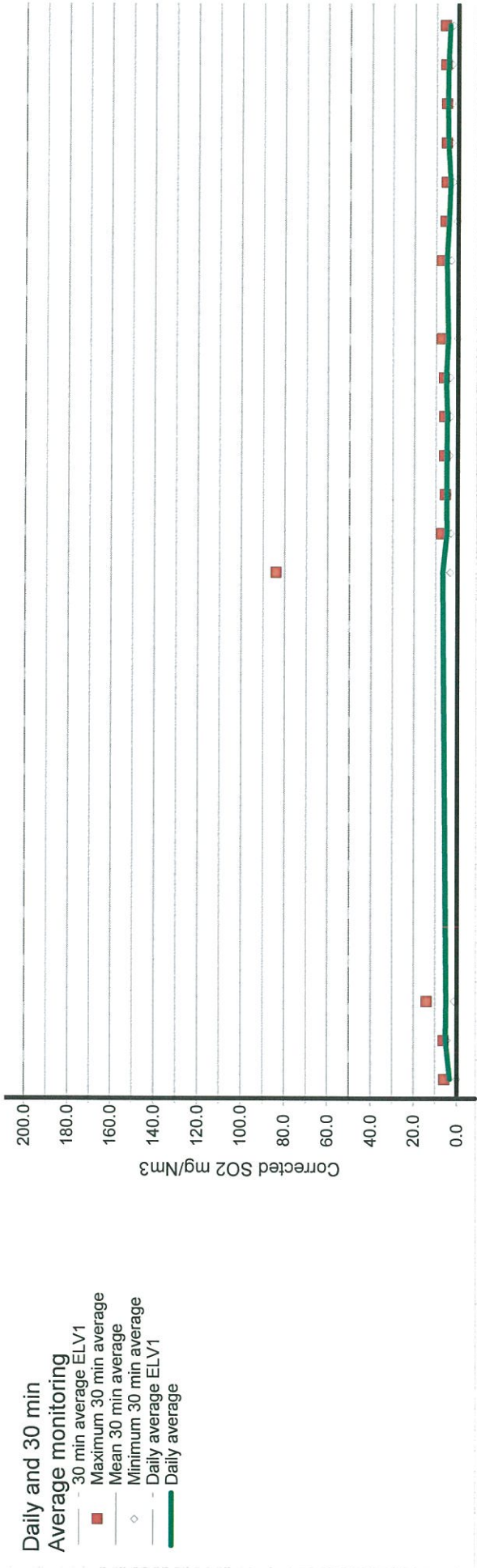
Signed
(Authorised to sign as representative of Operator)

Date: 26/4/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A6 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of February 2017



Monthly summary		Date		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
30 min Average	Monthly maximum	--	30 min average ELV1	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	Monthly mean	83.9	Maximum 30 min average	5.9	6.2	14.0	--	--	--	--	--	--	--	--	--	--	83.9	7.5	5.8	6.1	6.1	6.4	7.5	--	7.5	5.9	5.4	5.4	5.5	5.7	6.0
	Monthly minimum	4.9	Mean 30 min average	3.4	5.3	5.1	--	--	--	--	--	--	--	--	--	--	6.9	5.1	5.2	5.2	5.0	5.5	4.6	--	5.3	4.4	3.8	4.7	5.0	4.8	3.9
	Total invalid results	0.0	Minimum 30 min average	0.0	4.6	1.3	--	--	--	--	--	--	--	--	--	--	3.5	3.1	4.7	3.8	3.3	3.6	0.2	--	3.2	0.5	2.4	3.1	3.0	2.9	2.4
24 hour Average	Total invalid exceedances	5	No. invalid averages	0	0	2	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0	0	0	--	0	0	0	0	0	0	0
	Monthly maximum	0	No. exceedances ELV1	0	0	0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--	0	0	0	0	0	0	0
	No. invalid days	6.9	Daily average ELV1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	ELV1 exceedances	11	Value valid?	y	y	y	--	--	--	--	--	--	--	--	--	--	y	y	y	y	y	y	y	--	y	y	y	y	y	y	y

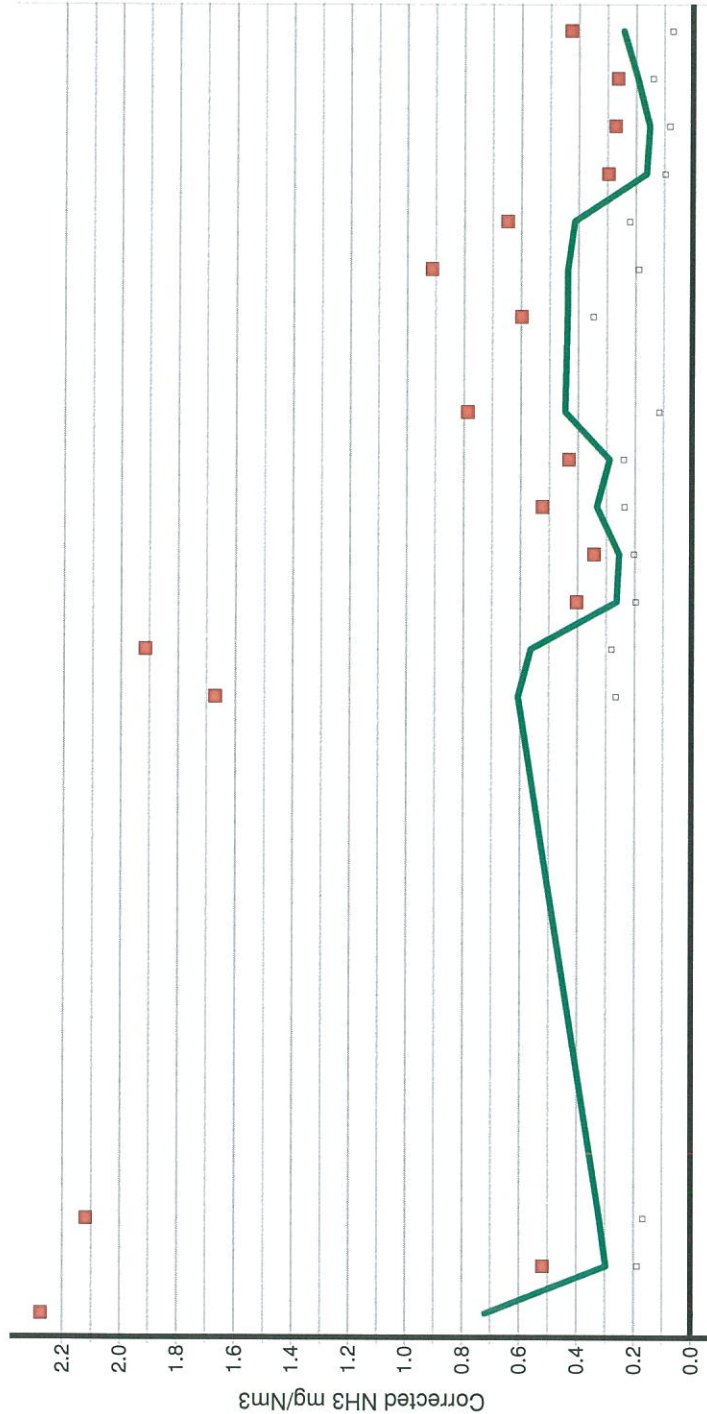
Signed Date 24/4/17
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Form Number: Agency Form / PP3936SQ /A7 /Form Dated May 06
Operator: UPM-Kymmene (UK) Ltd

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of February 2017

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



Monthly summary		Date																												
30 min Average	Monthly maximum	2.3	Maximum 30 min average																											
	Monthly mean	0.4	Mean 30 min average																											
	Monthly minimum	0.0	Minimum 30 min average																											
	Total invalid results	5	No. invalid averages																											
24 hour Average	Monthly maximum	0.7	Daily average																											
	No. invalid days	11	Value valid?																											
			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
			2.3	0.5	2.1	--	--	--	--	--	--	--	--	--	--	1.7	1.9	0.4	0.3	0.5	0.4	0.8	--	0.6	0.9	0.6	0.3	0.3	0.3	0.4
			0.7	0.3	0.3	--	--	--	--	--	--	--	--	--	--	0.6	0.6	0.3	0.3	0.3	0.3	0.4	--	0.4	0.4	0.4	0.2	0.2	0.2	0.2
			0.0	0.2	0.2	--	--	--	--	--	--	--	--	--	--	0.3	0.3	0.2	0.2	0.2	0.2	0.1	--	0.3	0.2	0.2	0.1	0.1	0.1	0.1
			0	0	2	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0	0	0	--	0	0	0	0	0	0	0
			0.7	0.3	0.3	--	--	--	--	--	--	--	--	--	--	0.6	0.6	0.3	0.3	0.3	0.3	0.4	--	0.4	0.4	0.4	0.2	0.2	0.2	0.2
			y	y	y	--	--	--	--	--	--	--	--	--	--	y	y	y	y	y	y	y	--	y	y	y	y	y	y	y

Signed
(Authorised to sign as representative of Operator)

Date: 24/4/17

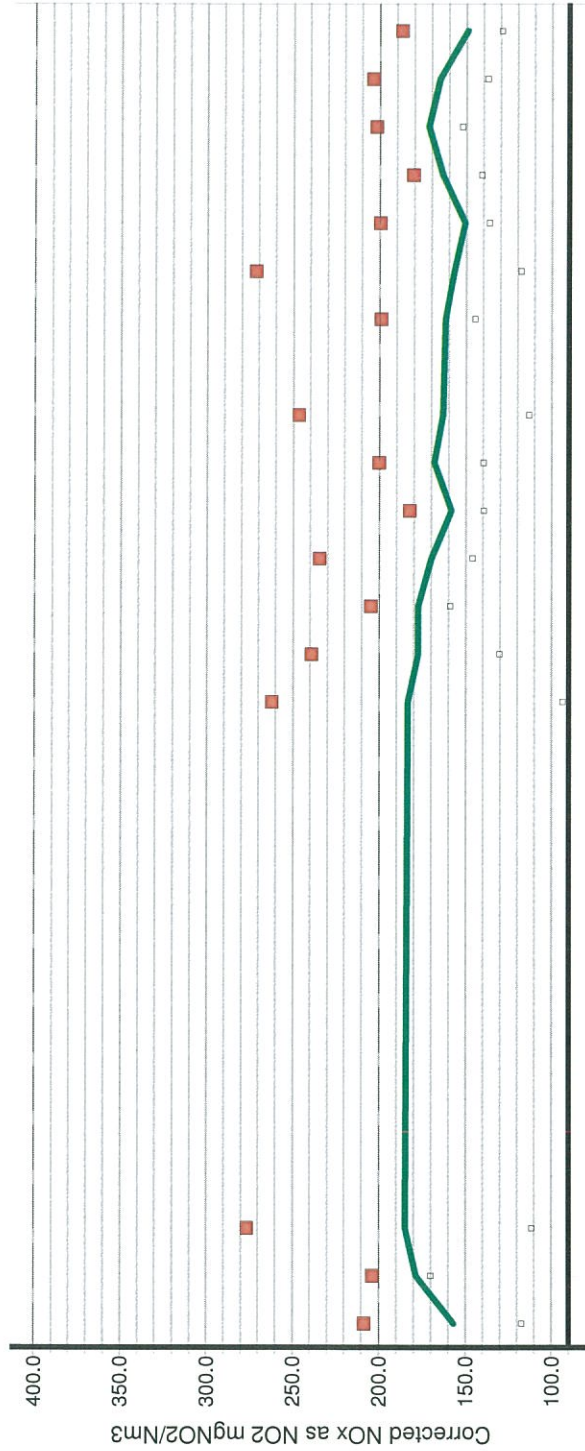
Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ/A7 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of February 2017

Daily and 30 min
Average monitoring

- 30 min average ELV1
- Maximum 30 min average
- Mean 30 min average
- Minimum 30 min average
- Daily average ELV1
- Daily average



Monthly summary		Date																											
30 min Average	Monthly maximum	276.2	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	Monthly mean	166.8	208.4	203.6	276.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Monthly minimum	93.7	156.7	178.6	184.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Total invalid results	5	0	0	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Total exceedances	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24 hour Average	Monthly maximum	184.8	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	No. invalid days	11	156.7	178.6	184.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Value valid?	0	y	y	y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Value exceeds ELV1?	0	n	n	n	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Signed
(Authorised to sign as representative of Operator)

Date: 24/4/17