

Month End Report

UPM-Kymmene (UK)

Permit Reference PP3936SQ
Installation Shotton Paper

To Alison Soper
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

Fax - 01244 548805
Email north.wales.ppc@naturalresourceswales.gov.uk

Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 31st May 2015.

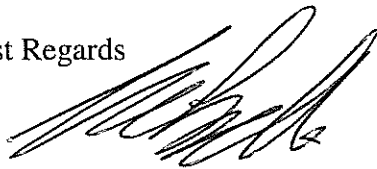
During the period there were no actual exceedances to report.

There was a CO exceedance indicated on 21st May this not reported as solid fuel had been taken off during this time to review work that had taken place during the shutdown.

You will note that on 3th May there are no readings reported, CEMS unit was off line for 6 hours to allow maintenance to take place on the CEMS unit prior to the following week QAL2 being carried out. This will be added to the CEMS downtime log for 2015

If you require any further information please let me know

Best Regards



Kevin Smith
Utilities Manager
UPM (UK) Shotton

Office +44 (0) 1244284393
Mobile +44 (0) 7736497124

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

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

Time	30 min average ELV1	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	Daily average ELV1
00:00	2.0	0.0	2.0	0.0	0.0
01:00	2.0	0.0	2.0	0.0	0.0
02:00	2.0	0.0	2.0	0.0	0.0
03:00	2.0	0.0	2.0	0.0	0.0
04:00	2.0	0.0	2.0	0.0	0.0
05:00	2.0	0.0	2.0	0.0	0.0
06:00	2.0	0.0	2.0	0.0	0.0
07:00	2.0	0.0	2.0	0.0	0.0
08:00	2.0	0.0	2.0	0.0	0.0
09:00	2.0	0.0	2.0	0.0	0.0
10:00	2.0	0.0	2.0	0.0	0.0
11:00	2.0	0.0	2.0	0.0	0.0
12:00	2.0	0.0	2.0	0.0	0.0
13:00	2.0	0.0	2.0	0.0	0.0
14:00	2.0	0.0	2.0	0.0	0.0
15:00	2.0	0.0	2.0	0.0	0.0
16:00	2.0	0.0	2.0	0.0	0.0
17:00	2.0	0.0	2.0	0.0	0.0
18:00	2.0	0.0	2.0	0.0	0.0
19:00	2.0	0.0	2.0	0.0	0.0
20:00	2.0	0.0	2.0	0.0	0.0
21:00	2.0	0.0	2.0	0.0	0.0
22:00	2.0	0.0	2.0	0.0	0.0
23:00	2.0	0.0	2.0	0.0	0.0

[illegible]

Signed..... Date..... 13/01/13
(Authorised to sign as representative of Operator)

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A3 /Form Dated May 06

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

The graph displays the concentration of Corrected HCl in mg/Nm3 on the y-axis (0.0 to 60.0) against an unlabeled x-axis representing time. The data series include: 30 min average ELV1 (dashed line), Maximum 30 min average (red squares), Mean 30 min average (open squares), Minimum 30 min average (dotted line), Daily average ELV1 (solid line), and Daily average (thick green line). The values are generally low, with a notable peak in the Maximum 30 min average reaching approximately 4.5 mg/Nm3.

Time	30 min average ELV1	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	Daily average ELV1	Daily average
1	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0
46	0.0	0.0	0.0	0.0	0.0	0.0
47	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0
51	0.0	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0</					

[illegible]

Date..... 15/6/12

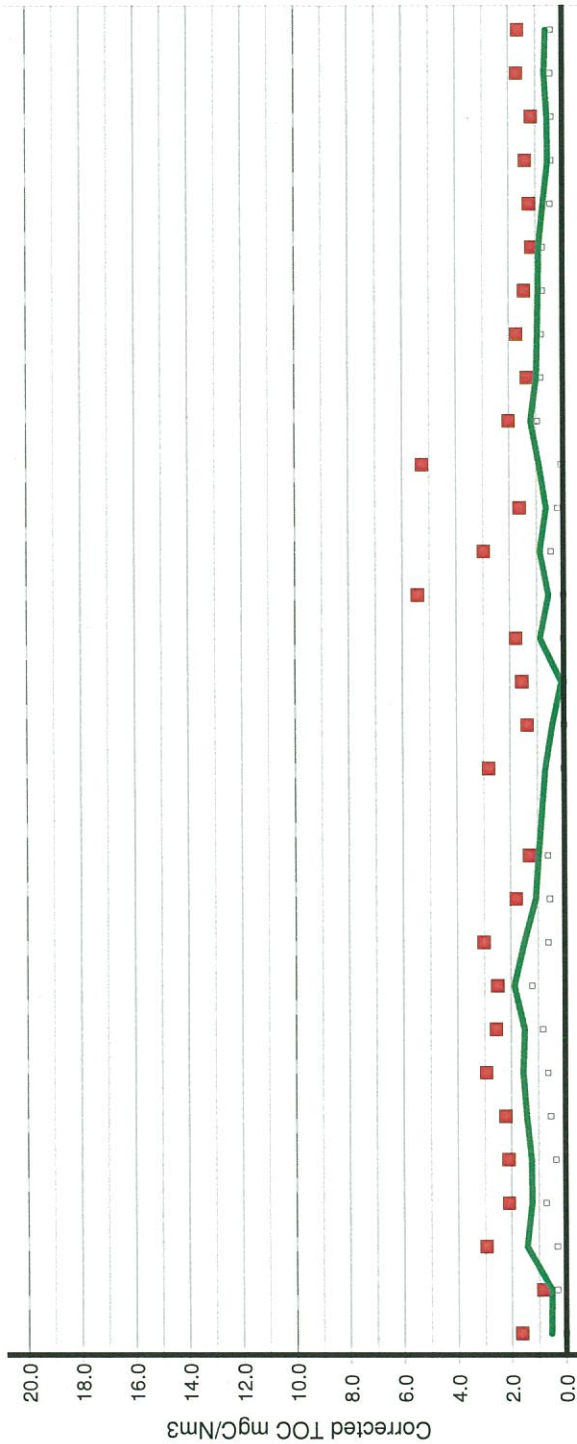
Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A4 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of May 2015

**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



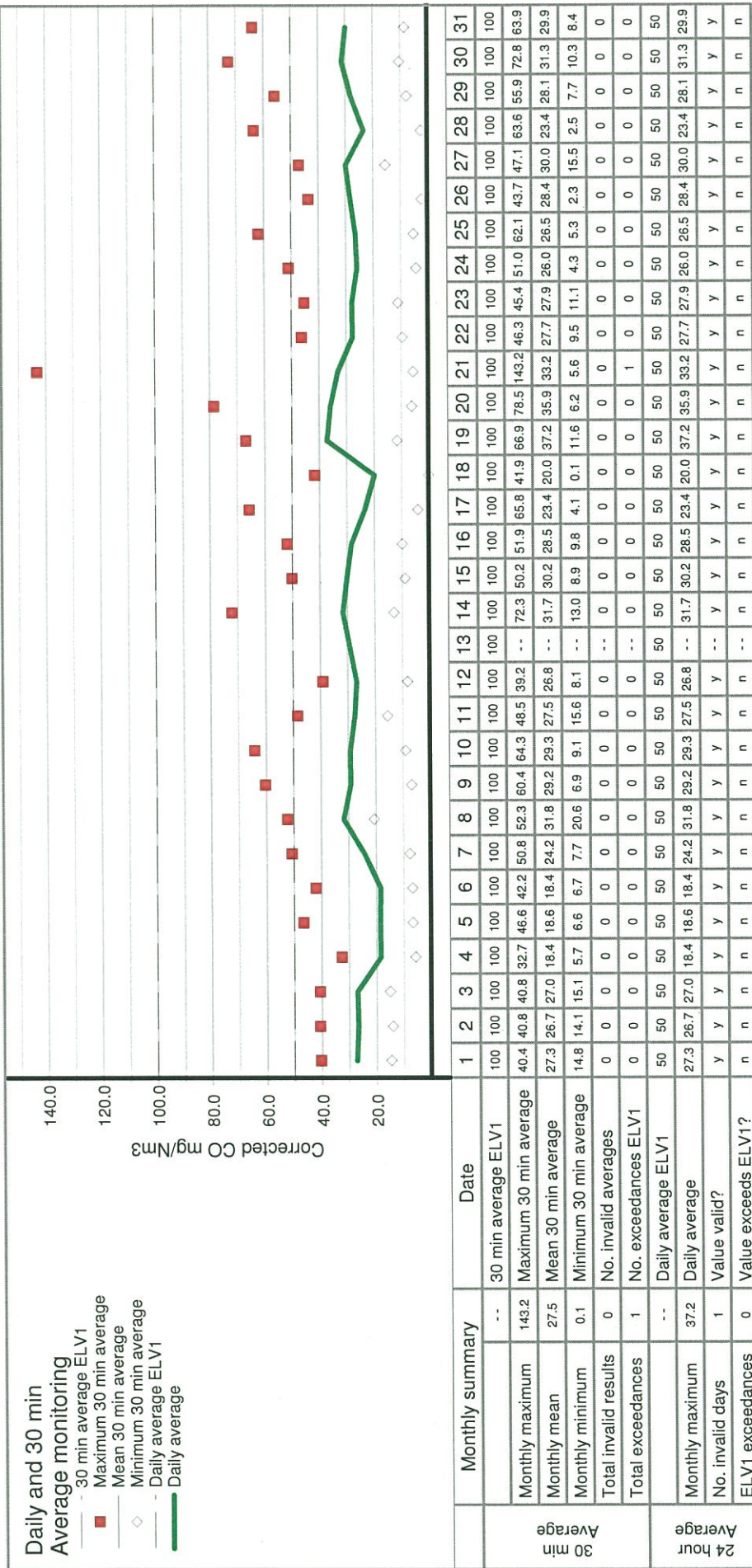
30 min Average	Monthly summary		Date																																		
	Monthly maximum	5.4	--	30 min average ELV1	1.6	0.9	3.0	2.1	2.1	2.2	2.9	2.6	2.5	3.0	1.8	1.3	--	2.8	1.4	1.6	1.8	5.4	3.0	1.6	5.3	2.0	1.3	1.7	1.4	1.2	1.2	1.4	1.2	1.7	1.7		
30 min Average	Monthly mean	0.9		Mean 30 min average	0.5	0.5	1.4	1.3	1.3	1.4	1.6	1.5	1.9	1.5	1.1	1.0	--	0.7	0.4	0.1	0.9	0.6	0.9	0.6	0.9	1.2	1.0	1.0	0.9	0.9	0.7	0.5	0.6	0.7	0.6		
	Monthly minimum	0.0		Minimum 30 min average	0.0	0.3	0.3	0.7	0.4	0.5	0.6	0.8	1.2	0.6	0.5	0.6	--	0.0	0.0	0.0	0.0	0.5	0.2	0.1	1.0	0.8	0.8	0.8	0.8	0.5	0.4	0.4	0.5	0.4	0.5	0.4	
	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	0	0	0	0	0	0
24 hour Average	Total exceedances	0		No. exceedances ELV1	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	0	0	0	
	Daily average	--		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	10	10	10	10	10	10	10
	Monthly maximum	1.9		Daily average	0.5	0.5	1.4	1.3	1.3	1.4	1.6	1.5	1.9	1.5	1.1	1.0	--	0.7	0.4	0.1	0.9	0.6	0.9	0.6	0.9	1.2	1.0	1.0	0.9	0.9	0.7	0.5	0.6	0.7	0.6	0.6	
24 hour Average	No. invalid days	1		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	y	y	y	y	
	ELV1 exceeds	0		Value exceeds ELV1?	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	n	n	n	

Signed Date: 15/6/15
(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 May 2015



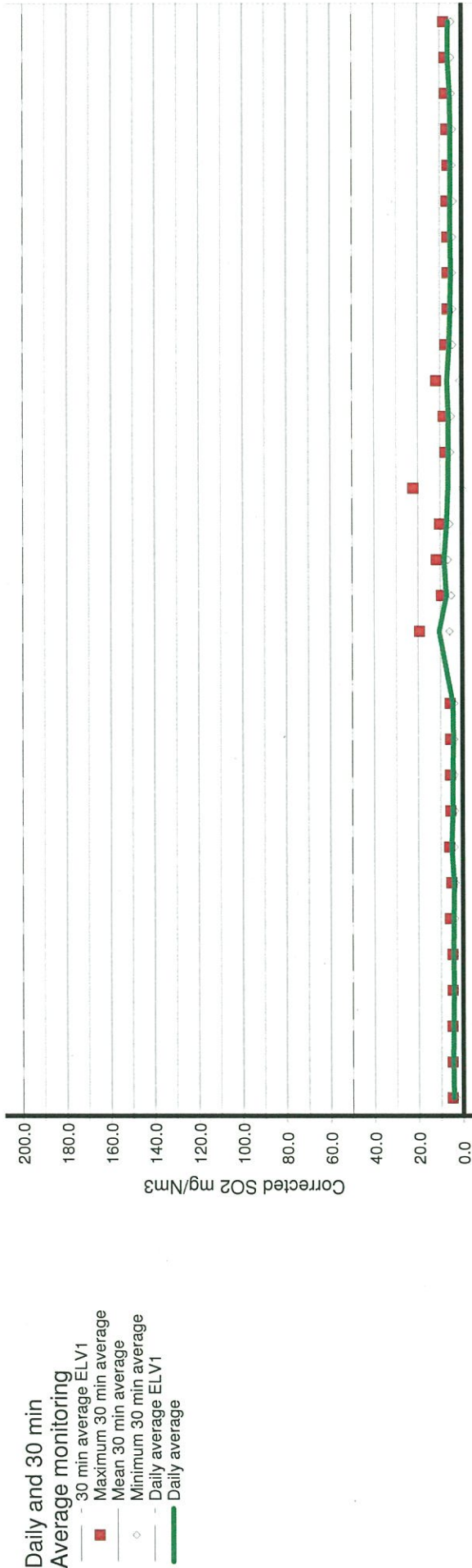
Signed:  Date: 15/6/15

(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 / A6 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of May 2015



	Monthly summary		Date																																	
	--		30 min average 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	
30 min Average	Monthly maximum	22.3		Maximum 30 min average	4.9	5.0	4.9	4.9	4.8	5.8	5.2	6.0	5.5	5.7	5.5	5.7	--	19.5	9.5	11.7	10.2	22.3	7.6	8.4	11.8	7.4	6.5	6.4	6.6	6.8	6.4	6.9	7.5	7.6	8.3	
	Monthly mean	5.5		Mean 30 min average	4.4	4.6	4.6	4.2	4.4	4.3	4.1	5.0	4.5	4.5	4.2	4.4	--	10.5	7.3	8.2	7.0	6.4	6.3	6.2	6.7	5.8	5.3	4.9	5.2	5.2	5.0	5.0	5.3	6.3	6.1	
	Monthly minimum	0.0		Minimum 30 min average	3.4	4.3	4.0	3.3	3.3	3.7	3.6	3.8	3.6	3.7	3.8	3.9	--	5.8	5.1	6.6	5.7	0.0	5.3	4.8	1.1	4.2	4.2	4.2	4.1	3.8	4.4	4.1	4.6	4.9	4.7	
	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	0	0	0	0	
24 hour Average	Total exceedances	0		No. exceedances ELV1	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	0	0	
	Monthly maximum	--		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	50	50	50	
	No. invalid days	10.5		Daily average	4.4	4.6	4.6	4.2	4.4	4.3	4.1	5.0	4.5	4.5	4.2	4.4	--	10.5	7.3	8.2	7.0	6.4	6.3	6.2	6.7	5.8	5.3	4.9	5.2	5.2	5.0	5.0	5.3	6.3	6.1	
	Value exceeds ELV1?	1		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	y	y	y	
24 hour Average	No. invalid days	0		Value exceeds ELV1?	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	n	n	

Signed  (Authorised to sign as representative of Operator)

Date 15/6/15

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

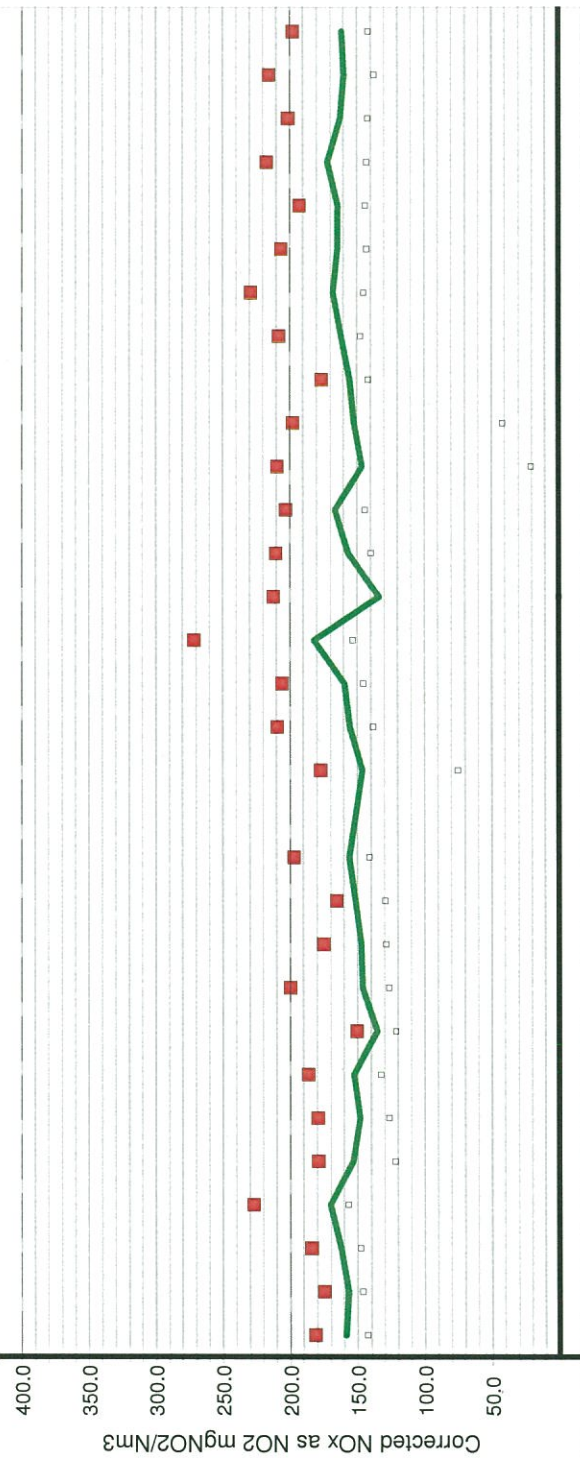
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A7 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of May 2015

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



Average 30 min	Monthly summary		Date																																
	Monthly maximum	--	30 min average ELV1	400	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 24 hour	Monthly maximum	271.5	Maximum 30 min average	181.4	174.9	184.4	227.3	179.2	179.6	186.5	150.6	199.7	175.1	165.3	197.2	--	--	177.4	209.4	205.9	271.5	212.2	210.5	203.0	209.4	197.9	176.4	208.0	229.1	206.4	192.9	217.3	201.4	215.5	198.0
	Monthly mean	156.9	Mean 30 min average	158.6	157.0	162.4	170.3	153.6	148.3	153.0	135.6	146.2	147.1	151.6	156.0	--	--	146.3	155.7	159.5	182.3	134.0	156.6	166.4	146.4	152.3	155.5	161.7	168.0	164.4	164.1	172.1	162.3	159.6	161.3
	Monthly minimum	0.0	Minimum 30 min average	142.8	146.2	147.8	156.9	122.1	126.7	132.8	121.6	126.7	128.9	129.5	141.2	--	--	75.3	138.1	145.5	153.5	0.0	140.0	144.1	20.6	41.9	142.0	147.6	145.0	143.0	143.8	143.0	142.2	137.6	142.0
	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	0	0	0	0
Average 24 hour	Total exceedances	0	No. exceedances ELV1	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	0	
	Daily average ELV1	--	Daily 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	200	200	200	
	Monthly maximum	182.3	Daily average	158.6	157.0	162.4	170.3	153.6	148.3	153.0	135.6	146.2	147.1	151.6	156.0	--	--	146.3	155.7	159.5	182.3	134.0	156.6	166.4	146.4	152.3	155.5	161.7	168.0	164.4	164.1	172.1	162.3	159.6	161.3
	No. invalid days	1	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	y	y	y
Average 24 hour	ELV1 exceedances	0	Value exceeds ELV1?	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	n	n

Signed Date 15/6/15

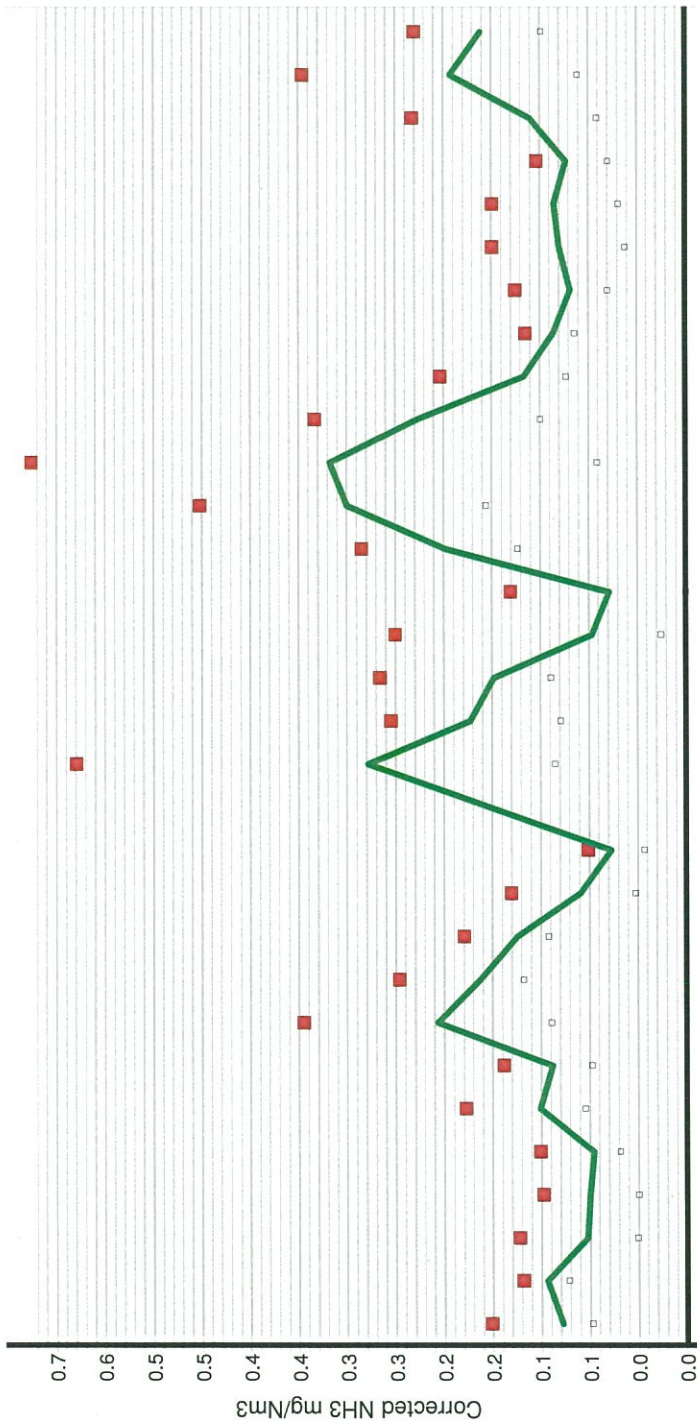
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A8 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of May 2015

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	0.7	Maximum 30 min average		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	
	Monthly mean	0.2	Mean 30 min average		0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.4	0.3	0.2	0.2	0.1	--	0.6	0.3	0.3	0.3	0.2	0.3	0.5	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3		
	Monthly minimum	0.0	Minimum 30 min average		0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.2	0.1	0.1	--	0.3	0.2	0.2	0.1	0.1	0.2	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	
	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	0	0	0	0	
	24 hour average	Monthly maximum	0.4	Daily average		0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.2	0.1	0.1	--	0.3	0.2	0.2	0.1	0.1	0.2	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	
	No. invalid days	1	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	Y	Y	Y	

Signed  Date 15/6/15
(Authorised to sign as representative of Operator)