

UPM-Kymmene (UK)

Memo
External
8th January 2014
KOS

1 (1)

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 December 2013.

During the period there were no non conformances to report

Best Regards

A handwritten signature in black ink, appearing to be "Kevin Smith", written over a horizontal line.

Kevin Smith
Utilities Manager
UPM (UK) Shotton

Office +44 (0) 1244284393

Fax +44 (0) 1244285393

Mobile +44 (0) 7736497124

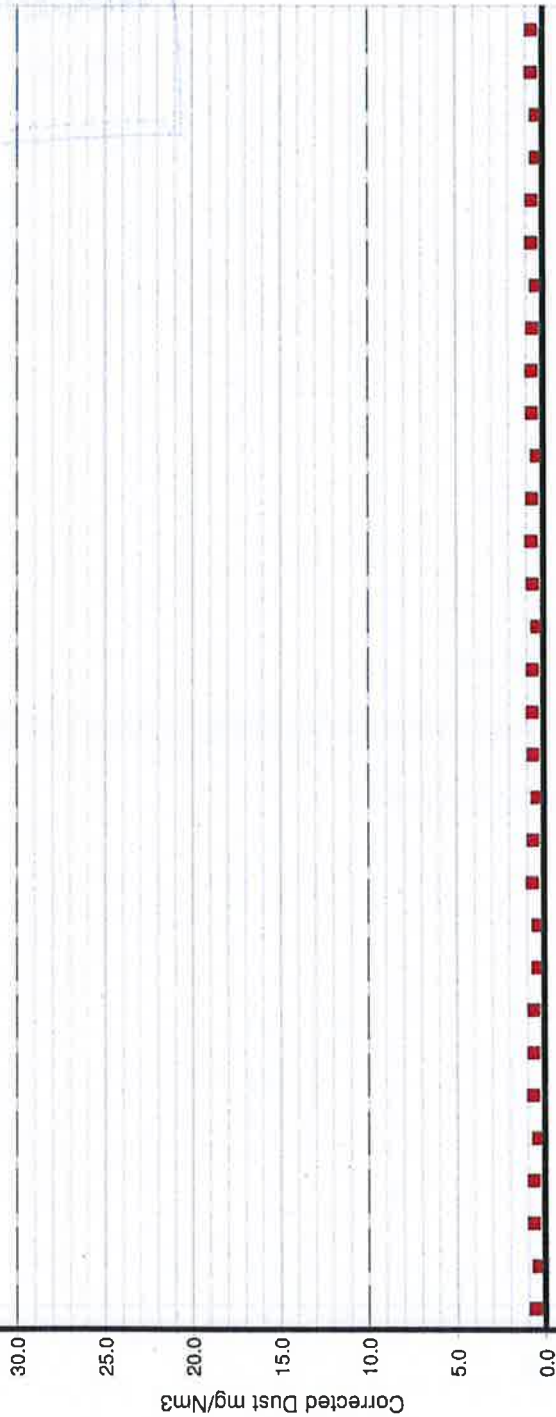
MONITORING RETURNS N. WALES

	INITIALS	DATE
CHECKED Vs AUTHORISATION	JS	13/1/14
TRACKING	JB	13.1.14
OK FOR PUBLIC REGISTER	JS	13/1/14
	JB	EDCm

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 December 2013



30 min Average	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	29	30	31	
	Monthly maximum	--	30 min average ELV1	30 min average ELV1	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
30 min Average	Monthly maximum	0.7	Maximum 30 min average	Maximum 30 min average	0.6	0.4	0.6	0.7	0.4	0.7	0.7	0.6	0.4	0.4	0.7	0.6	0.4	0.6	0.7	0.6	0.4	0.6	0.7	0.6	0.4	0.7	0.7	0.6	0.4	0.7	0.7	0.4	0.4	0.7	0.6	
	Monthly mean	0.0	Mean 30 min average	Mean 30 min average	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	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 minimum	0.0	Minimum 30 min average	Minimum 30 min average	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	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	
	Total invalid results	0	No. invalid averages	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	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	0
	Monthly maximum	--	Daily average ELV1	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
	No. invalid days	0	Daily average	Daily average	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	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
	Value valid?	0	Value valid?	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	y
24 hour Average	Value exceeds ELV1?	0	Value exceeds ELV1?	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	n

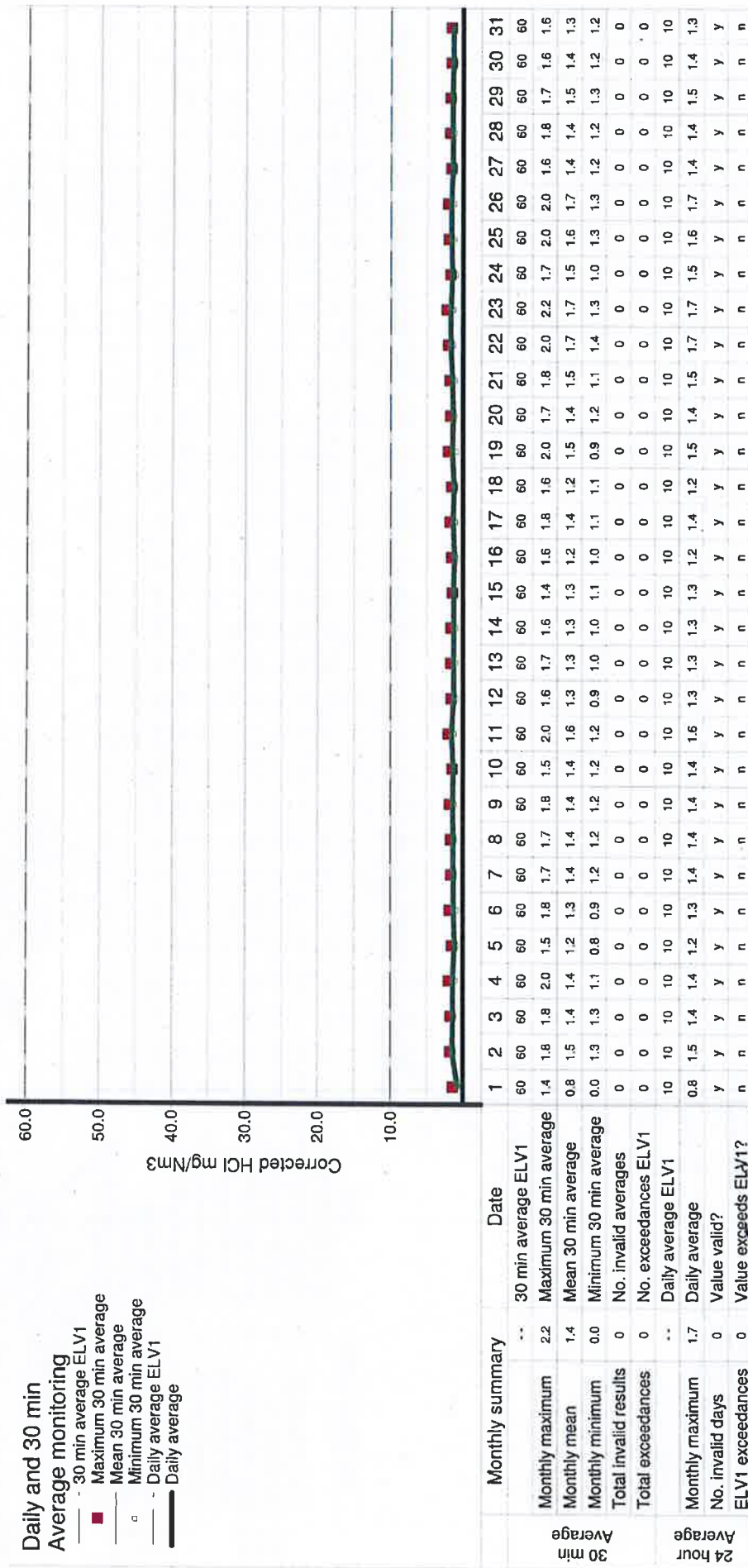
9/1/14

Signed
(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 / A3 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of December 2013

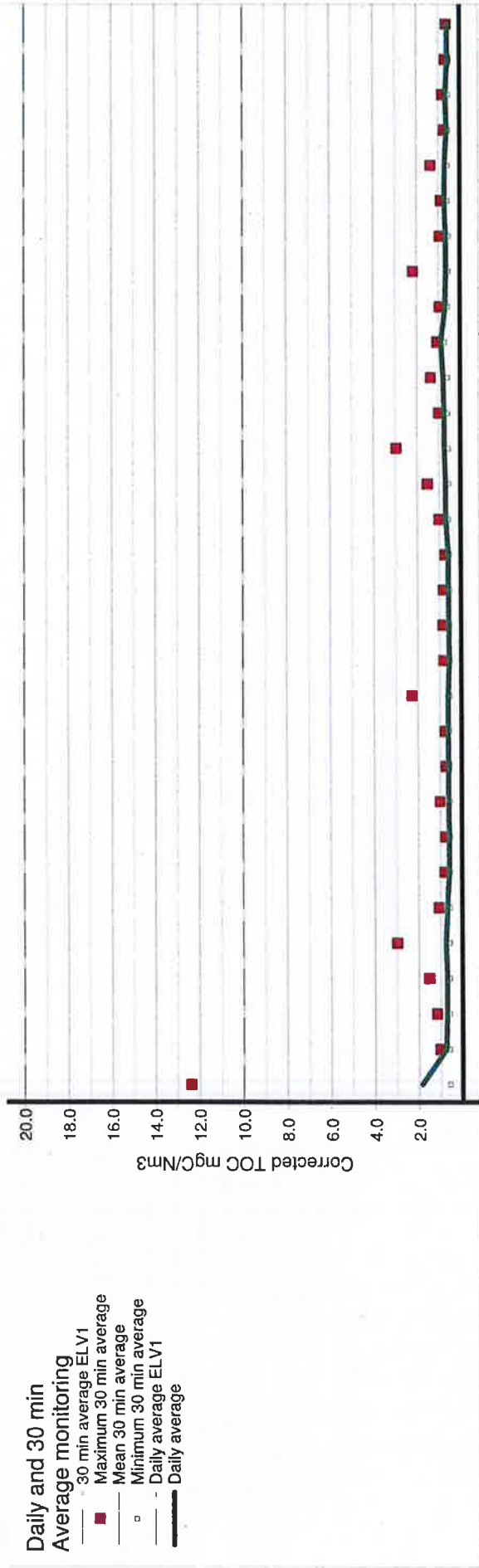


Signed  Date 9/1/14
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

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

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of December 2013



Average	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	29	30	31	
	30 min		30 min average ELV1		30 min average	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	No. invalid averages	No. exceedances ELV1	Daily average ELV1	Daily average	Value valid?	No. invalid days	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	Value exceeds ELV1?	
30 min	Monthly maximum	12.4	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	Monthly mean	0.7	12.4	1.0	1.2	1.5	3.0	1.1	0.8	0.7	1.0	0.7	0.8	2.2	0.8	0.8	0.8	0.8	0.7	1.0	1.5	3.0	1.0	1.4	1.1	1.0	2.2	0.9	0.9	1.4	0.7	0.8	0.7	0.6	0.6	
	Monthly minimum	0.5	1.9	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.7	0.6	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.6	
	Total invalid results	0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.7	0.6	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	
	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	0	0	0	0	0	0	
24 hour	Monthly maximum	--	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	0	0
	Daily average ELV1	1.9	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	10
	Daily average	1.9	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.6	
	Value valid?	0	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	y	y	
	Value exceeds ELV1?	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	n	n	n	n	n	

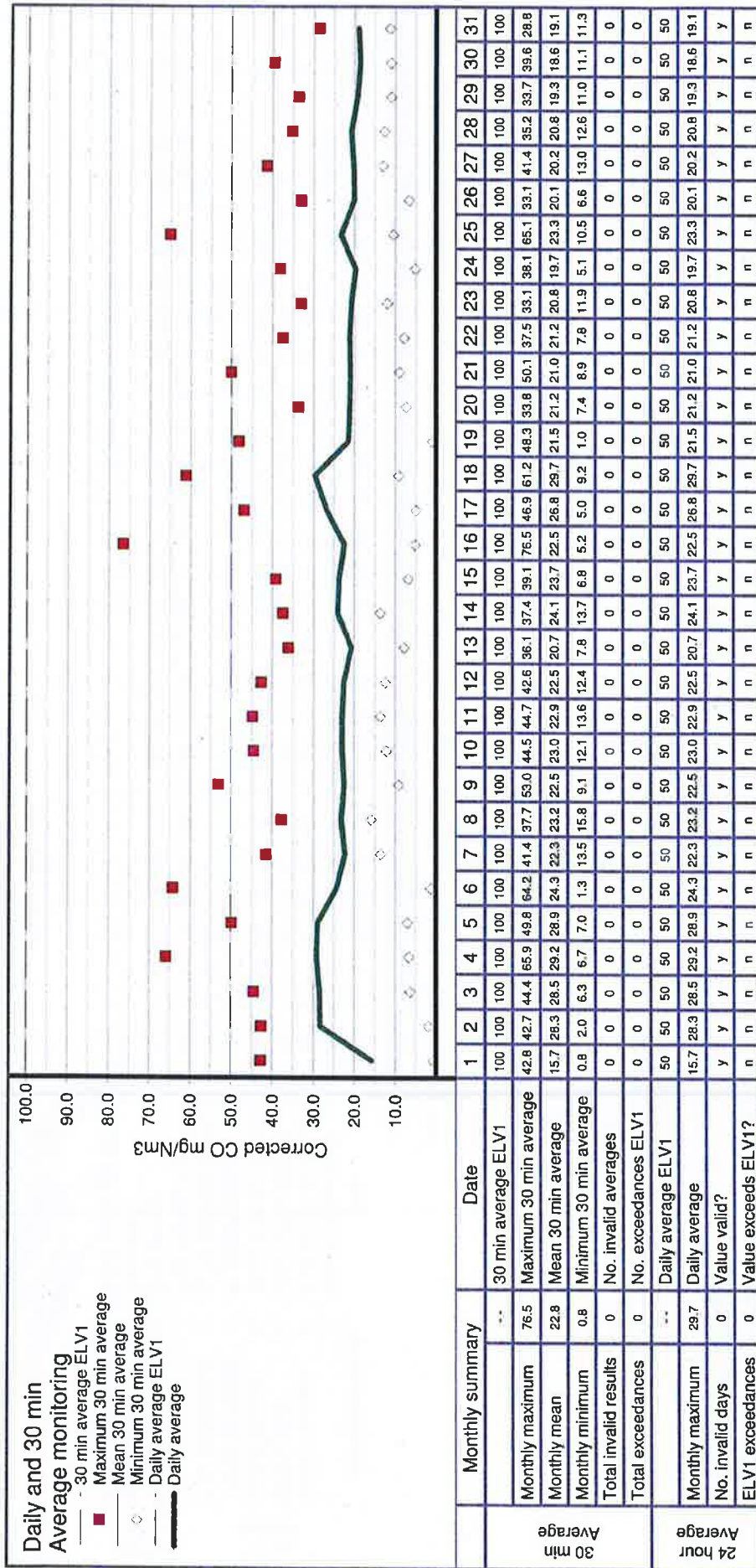
Signed  Date 9/1/14

(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 December 2013



Signed  Date: 9/1/14

(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 December 2013

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



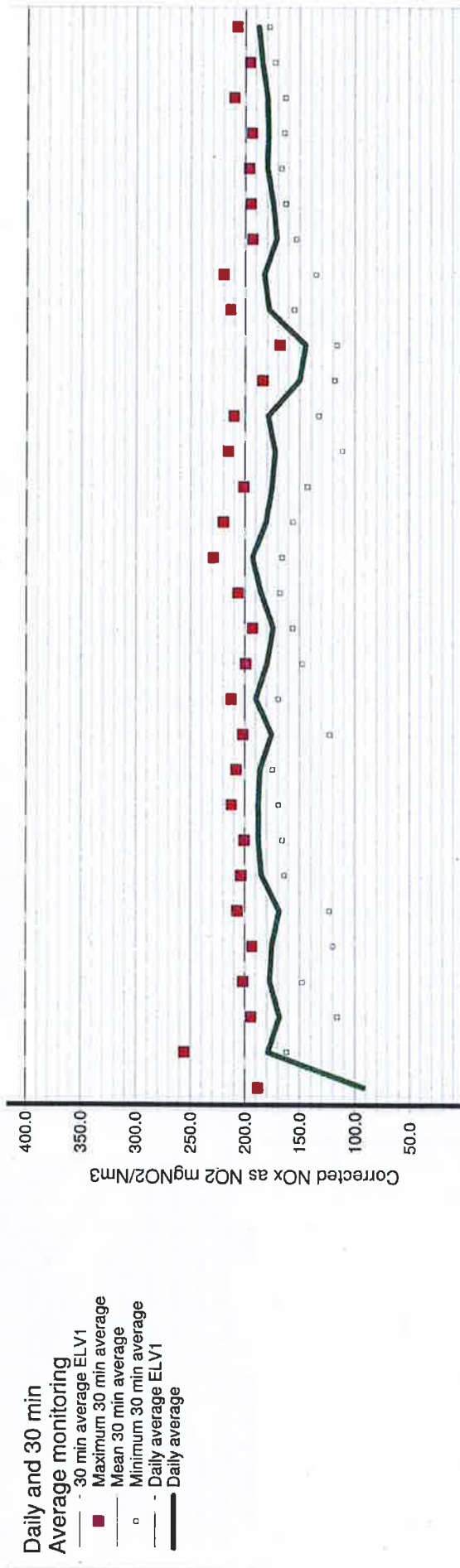
Average	Monthly summary		Date																																	
	--				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
30 min	Monthly maximum	9.1	Maximum 30 min average	5.0	5.2	5.1	6.4	8.5	6.4	6.5	6.7	6.7	6.6	8.1	6.1	6.6	6.7	6.5	6.5	6.6	6.3	7.6	6.2	6.5	7.9	9.1	8.4	7.1	7.9	6.9	7.0	6.2	6.6	7.0		
	Monthly mean	5.5	Mean 30 min average	2.1	4.5	4.4	5.1	5.1	5.0	5.7	5.7	5.7	5.6	5.9	5.8	4.7	5.7	5.9	5.7	5.0	5.5	5.2	5.2	5.0	4.8	6.4	6.8	6.2	6.5	6.7	6.2	5.9	5.2	5.8	6.2	
	Monthly minimum	0.0	Minimum 30 min average	0.0	3.6	3.8	3.9	4.0	3.7	4.5	4.2	4.2	4.3	4.9	4.2	3.6	4.6	5.1	4.7	4.1	4.2	4.1	1.8	3.6	3.8	5.5	5.4	5.0	5.7	5.3	5.5	4.8	4.1	4.7	5.5	
	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	
	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	0	0
24 hour	--		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	50	50
	6.8	Daily average	2.1	4.5	4.4	5.1	5.1	5.0	5.7	5.7	5.7	5.6	5.9	5.8	4.7	5.7	5.9	5.7	5.0	5.5	5.2	5.2	5.0	4.8	6.4	6.8	6.2	6.5	6.7	6.2	5.9	5.2	5.8	5.8	6.2	
	No. invalid days	0	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	y	
	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	n	n	

Signed  Date: 9/1/14
(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 / A7 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of December 2013



30 min Average	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	29	30	31
	Monthly maximum	255.3	30 min average ELV1	--	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	400	400	400	400
30 min Average	Monthly maximum	255.3	Maximum 30 min average	188.1	255.3	194.2	201.5	193.3	206.8	203.3	200.4	212.2	207.8	201.7	212.1	199.0	192.9	206.1	228.5	219.8	201.1	215.1	210.1	183.7	168.5	213.2	219.3	193.1	194.7	196.3	193.8	210.0	195.6	207.1	
	Monthly mean	174.9	Mean 30 min average	92.2	178.8	168.2	177.2	175.3	168.5	184.5	187.4	187.7	186.1	175.6	189.9	179.7	174.1	185.1	193.0	180.5	175.1	172.2	178.8	150.2	144.7	178.0	182.3	170.9	174.3	179.6	178.8	179.6	184.4	187.5	
	Monthly minimum	0.6	Minimum 30 min average	0.6	161.5	115.9	147.0	119.9	122.9	163.9	165.5	169.3	174.3	122.4	169.3	147.1	156.3	167.6	165.9	155.9	142.9	111.1	132.7	118.3	116.2	154.9	135.2	153.3	162.7	166.7	164.0	163.2	172.5	177.7	
	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	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 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	193.0	Daily average	92.2	178.8	168.2	177.2	175.3	168.5	184.5	187.4	187.7	186.1	175.6	189.9	179.7	174.1	185.1	193.0	180.5	175.1	172.2	178.8	150.2	144.7	178.0	182.3	170.9	174.3	179.6	178.8	179.6	184.4	187.5	
	No. invalid days	0	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	
24 hour Average	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	n	

Signed: 
(Authorised to sign as representative of Operator)

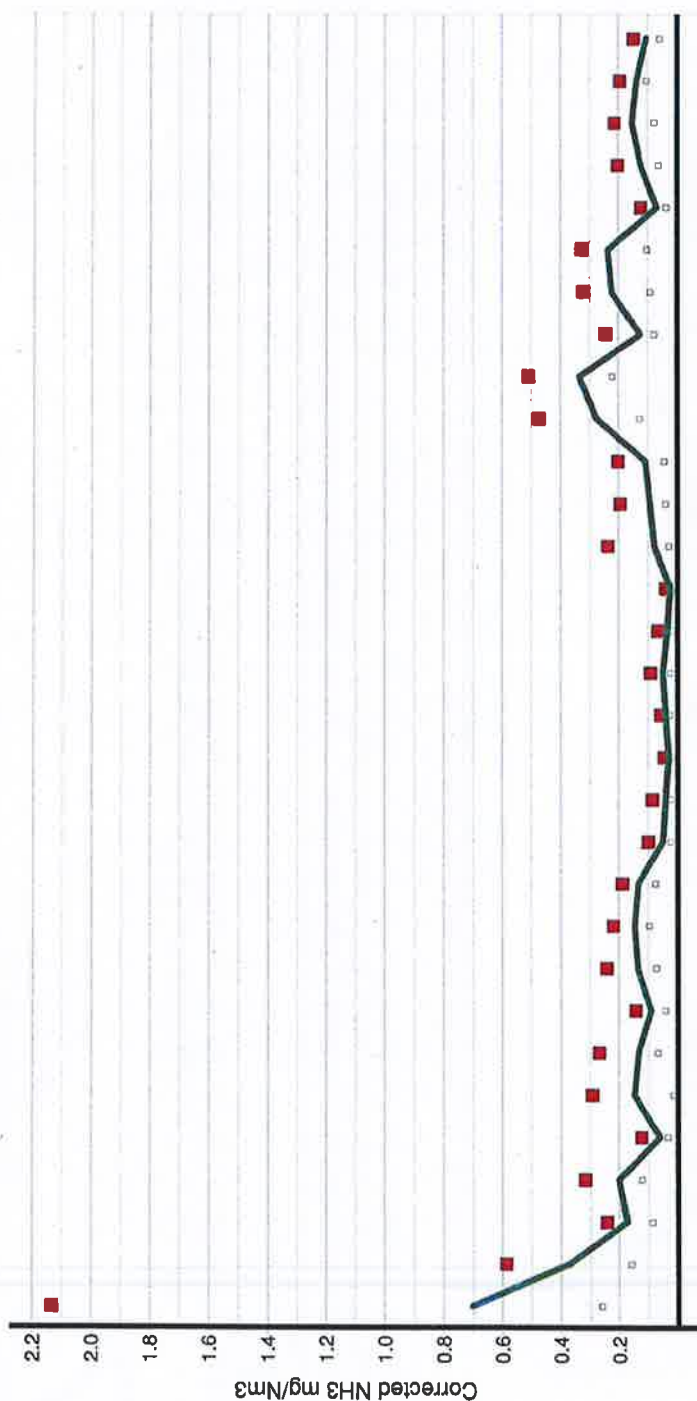
Date: 9/1/14

Unit Reference Number: PP3936SQ
 Location: Shotton Paper Mill

Form Number: Agency Form / PP3936SQ / A8 / 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 December 2013

Daily and 30 min
 average monitoring
 ■ Maximum 30 min average
 ○ Mean 30 min average
 — Minimum 30 min average
 — Daily average



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	29	30	31
Monthly maximum	2.1	Maximum 30 min average		2.1	0.6	0.2	0.3	0.1	0.3	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.3	0.3	0.1	0.2	0.2	0.2	0.1
Monthly mean	0.2	Mean 30 min average		0.7	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1
Monthly minimum	0.0	Minimum 30 min average		0.3	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1
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
Monthly maximum	0.7	Daily average		0.7	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1
No. invalid days	0	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

Signed  Date: 9/1/14

(Authorised to sign as representative of Operator)