

Air Emission Monthly Report

UPM-Kymmene (UK)

Permit Number EPR/BT4885IT
Installation Shotton Paper Mill

To
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Natural Resources Wales
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Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 30th June 2018.

During the period there have not been any reportable exceedances or non conformances to report, however you will note a number of invalid periods or days of reporting

These are as follow

- 1) 6th June 06.30-14.30 – Invalid Day This was as a result of Boiler planned shutdown
- 2) 12th June 09.30-13.30 – Invalid Day Gasmet PC failed
- 3) 18th June 09.30-10.30 – 2 Invalid periods Routine UPM Maintenance checks
- 4) 20th June 10.30-15.30 – Invalid Day CEMs unit service by supplier
- 5) 21st June 07.30-14.00 – Invalid Day CEMs unit service by supplier
- 6) 22nd June 07.30-08.30 – 2 Invalid periods CEMs unit service by supplier
- 7) 29th June 12.30-14.00 – 3 Invalid periods Boiler Trip due to O2 probe failure

Outside the periods noted above the CEMs unit and the Boiler is considered to be in normal operation alternative combustion monitoring trends are attached on the following pages.

Points 2) through to 6) will be added to the 2018 CEMS Invalidation log

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

Best Regards



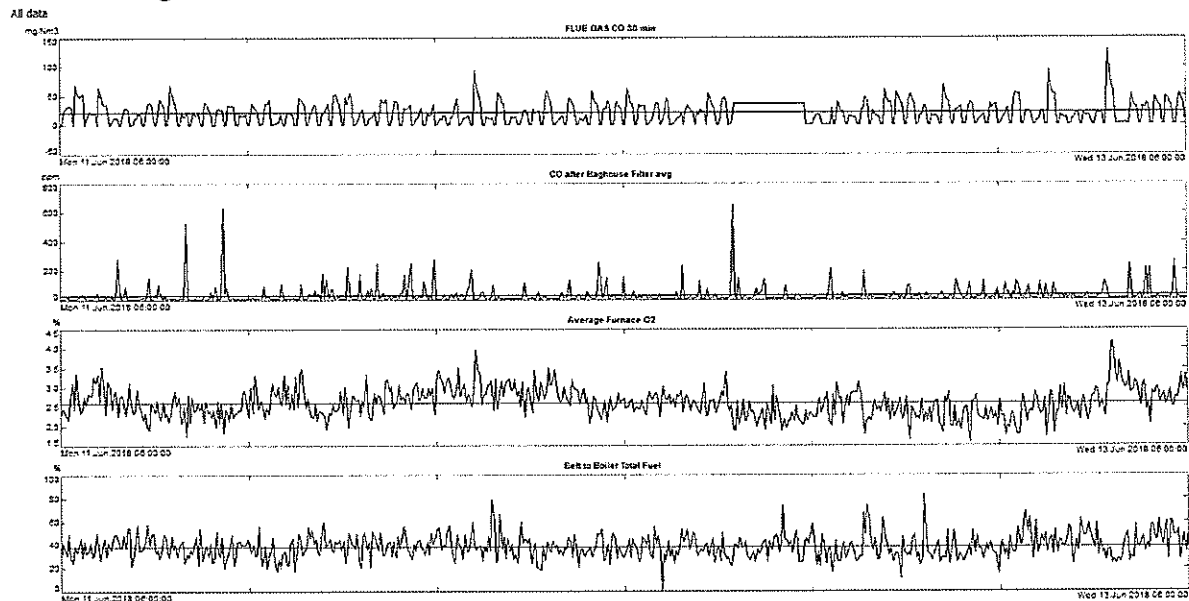
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Air Emission Monthly Report

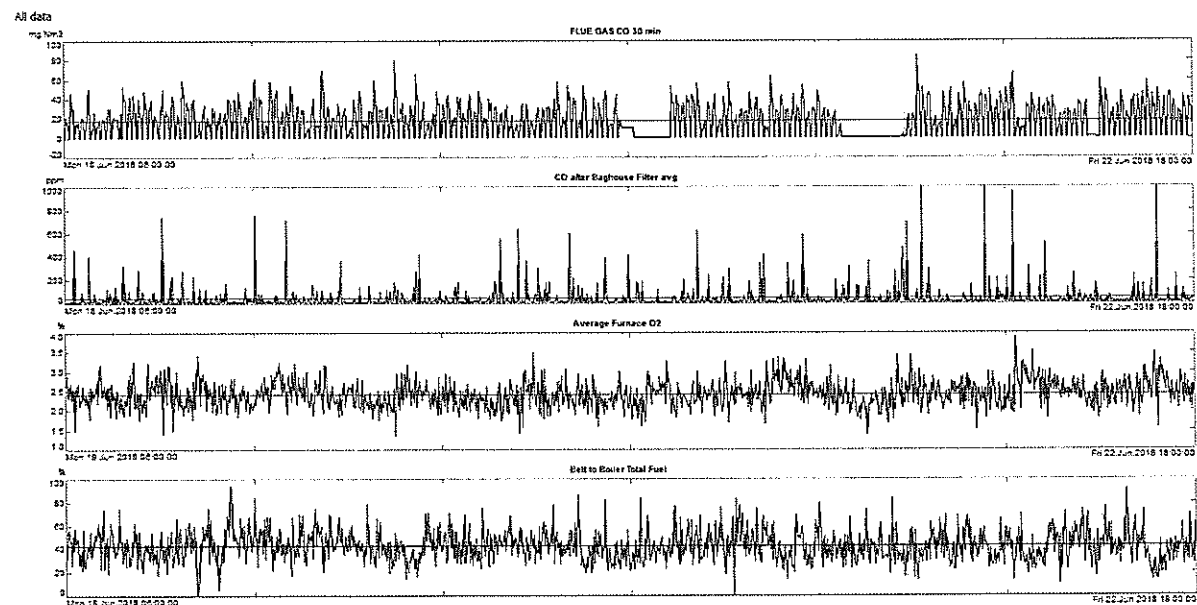
Area marked 12th June when CEMs offline, to demonstrate alternative methods of combustion control eg during abnormal operation.

CO after baghouse, Furnace O₂ and Boiler fuel feeding



Areas marked 18th 20th 21st and 22nd June when CEMs offline, to demonstrate alternative methods of combustion control eg during abnormal operation.

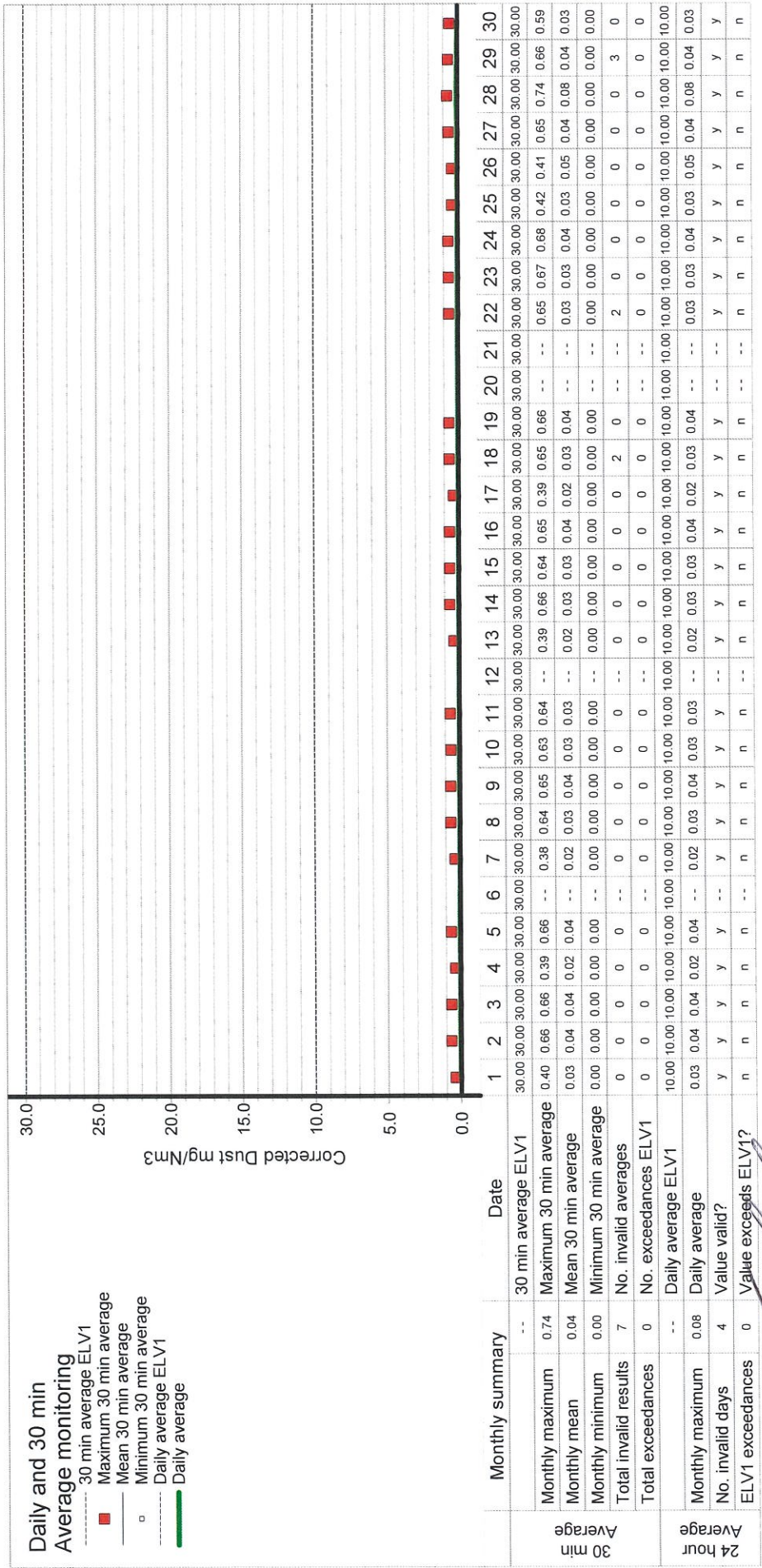
CO after baghouse, Furnace O₂ and Boiler fuel feeding



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 June 2018

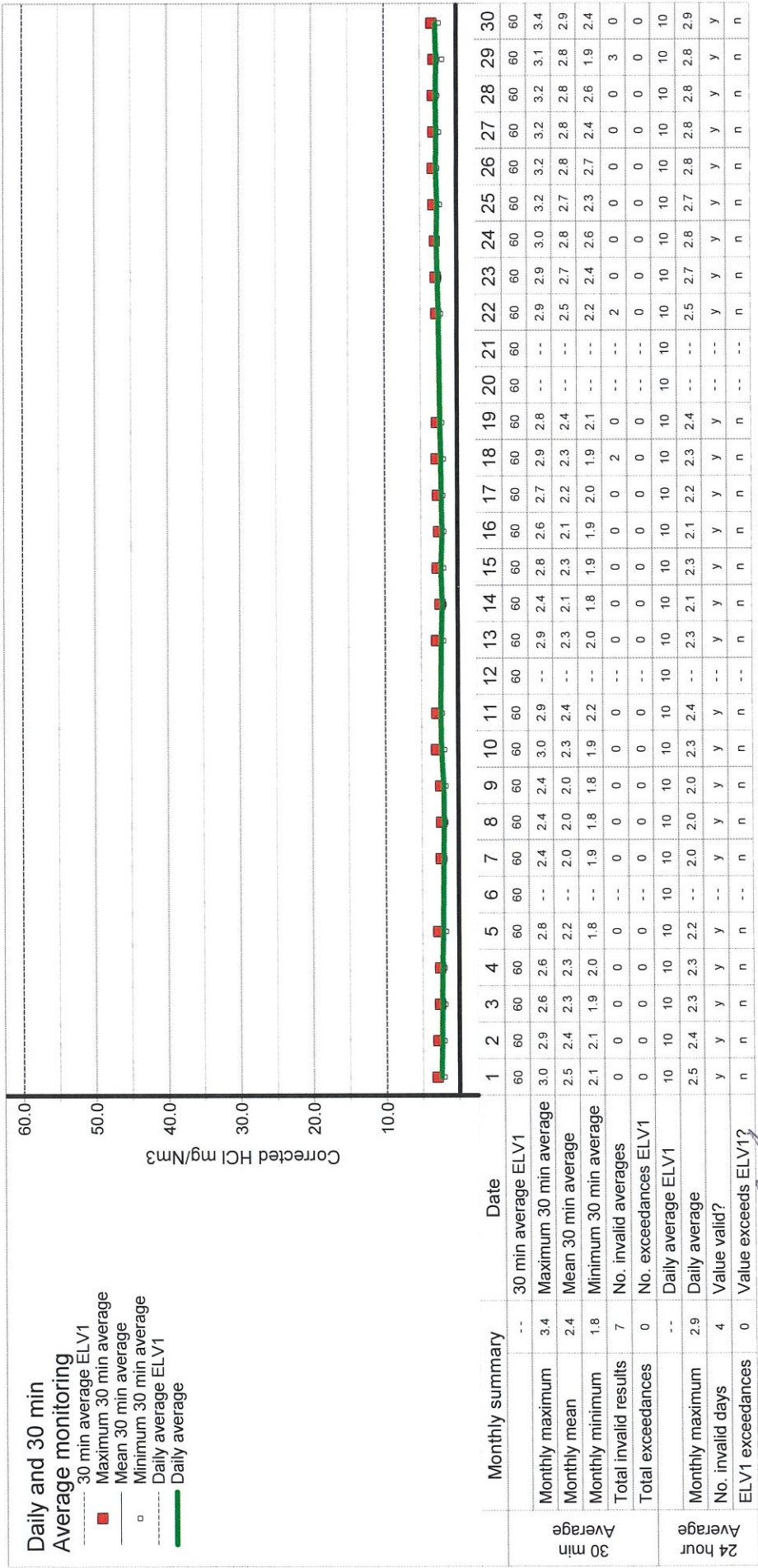


Signed Date: 16/5/18
(Authorised to sign as representative of Operator)

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 June 2018



[Signature]

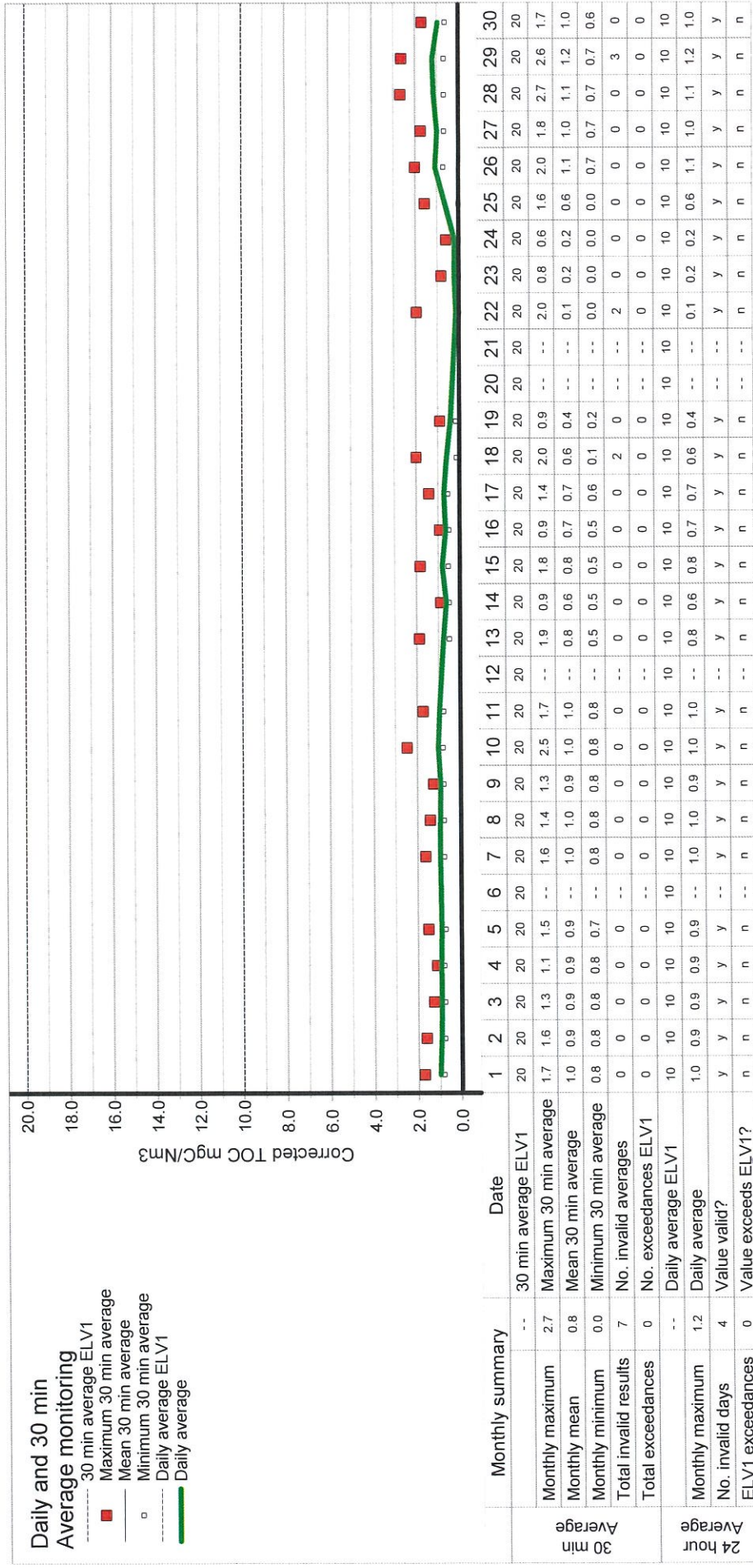
Date: 16/7/18

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 /A4 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of June 2018

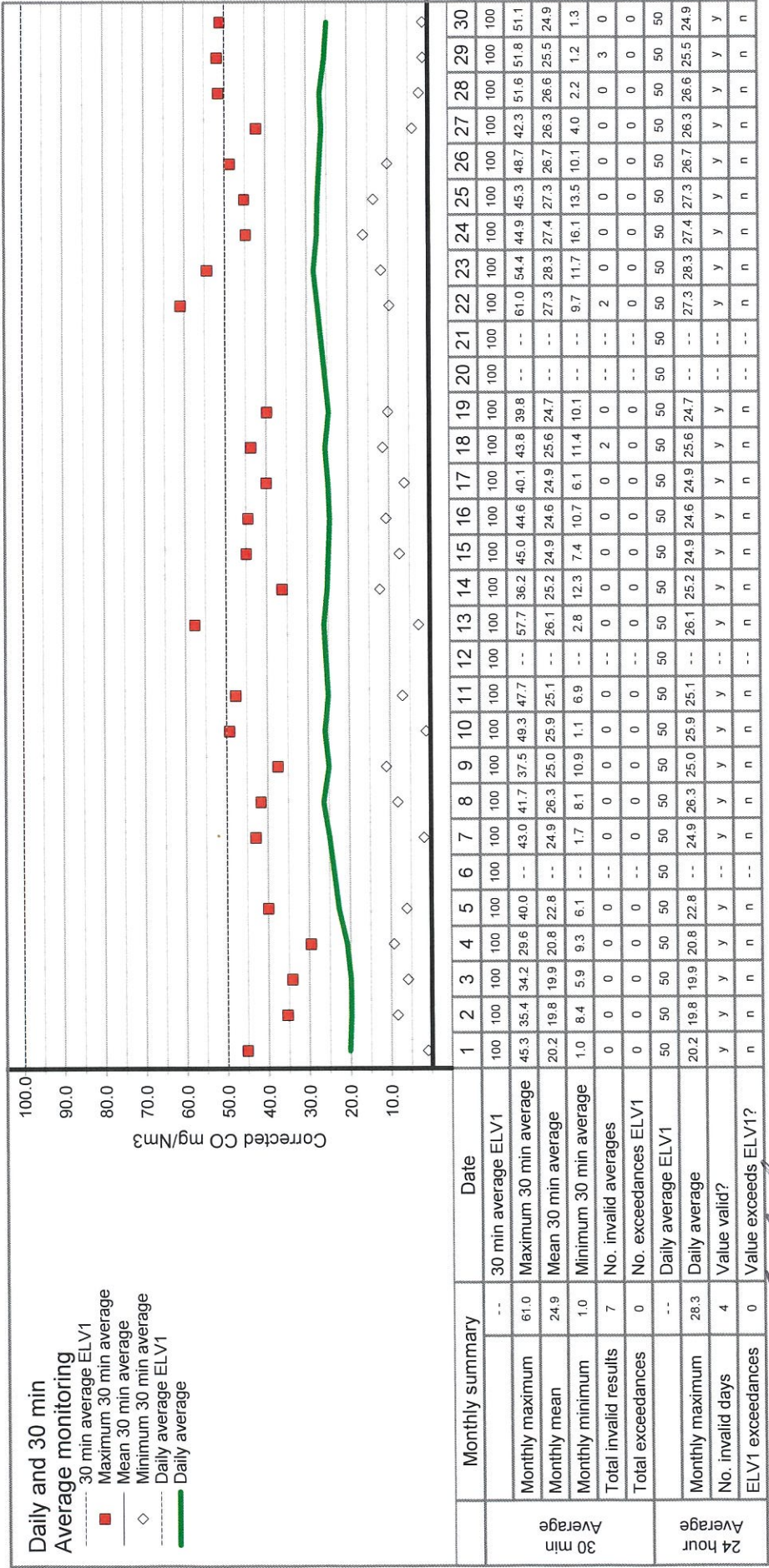


Signed Date: 16/7/18
(Authorised to sign as representative of Operator)

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 June 2018



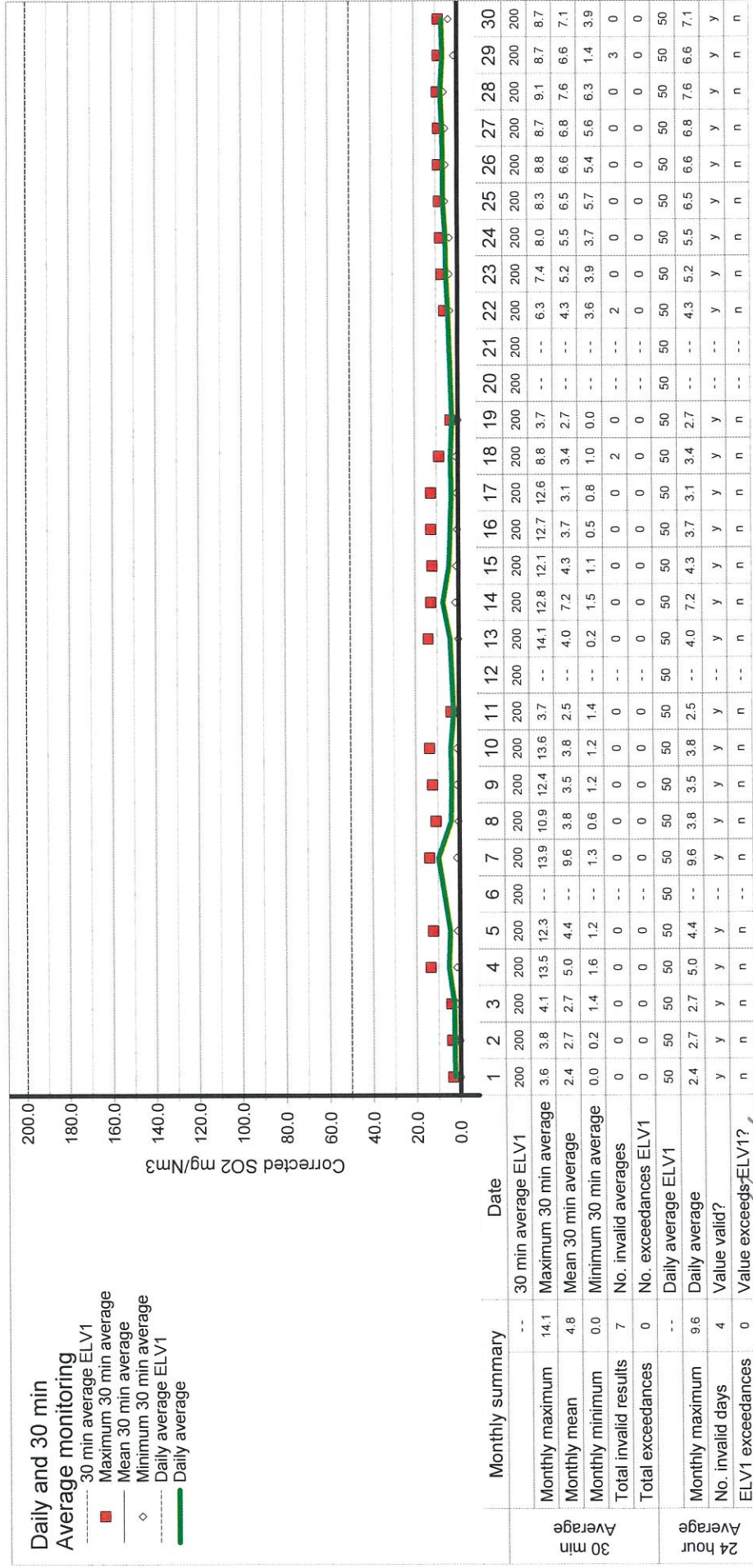
Signed:
Date: 16/7/18

(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 June 2018



Signed:  Date: 16/7/18
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

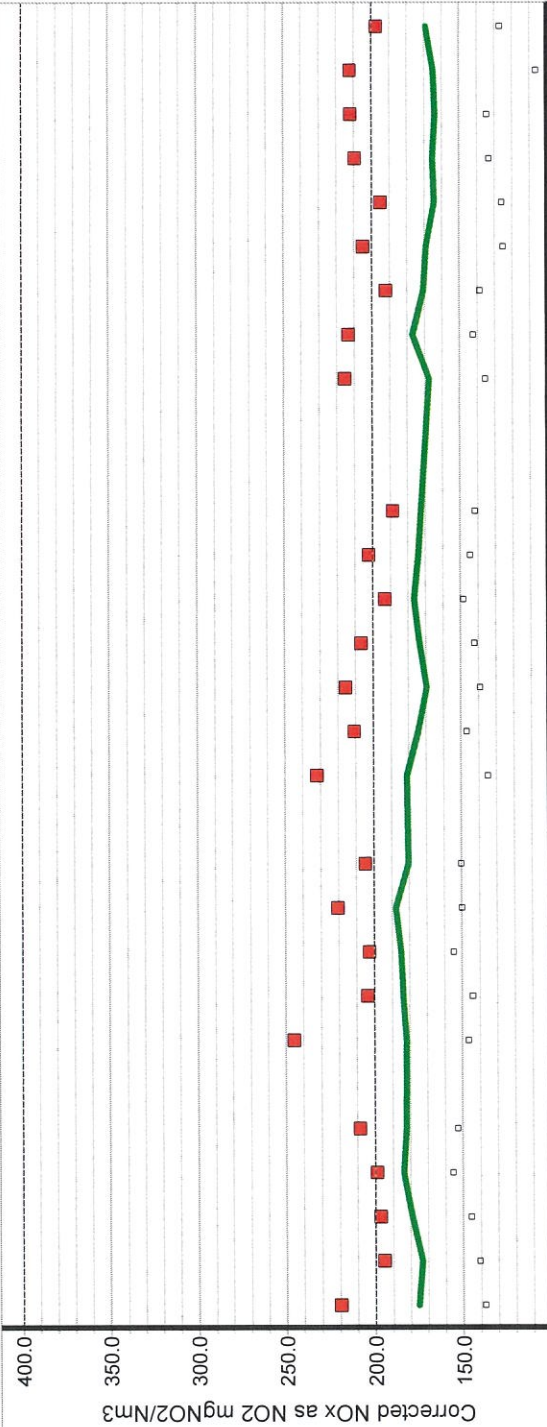
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A7 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of June 2018

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		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
	Monthly maximum	245.5	--	30 min average ELV1	219.7	195.1	197.1	199.0	208.6	--	245.5	204.1	202.9	220.5	205.0	--	232.0	211.0	215.7	206.9	193.3	202.4	188.7	--	--	215.5	213.5	192.2	205.1	195.2	209.8	212.1	212.3	197.5
Monthly mean	Monthly mean	174.9	--	Mean 30 min average	175.5	173.5	179.1	183.8	182.1	--	181.8	183.6	184.8	187.8	180.3	--	181.0	174.5	169.6	173.6	176.6	174.1	172.6	--	--	167.6	177.0	170.8	169.2	164.5	165.5	164.1	164.9	169.3
Monthly minimum	Monthly minimum	106.4	--	Minimum 30 min average	137.5	140.6	145.3	155.8	152.8	--	146.5	144.0	154.8	149.9	150.2	--	134.8	145.9	139.3	142.3	148.4	144.5	141.8	--	--	135.7	142.4	138.5	125.2	126.0	133.3	134.4	106.4	126.9
Total invalid results	Total invalid results	7	--	No. invalid averages	0	0	0	0	0	--	0	0	0	0	0	--	0	0	0	0	0	2	0	--	--	2	0	0	0	0	0	0	3	0
Total exceedances	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
Monthly maximum	Monthly maximum	187.8	--	Daily average ELV1	175.5	173.5	179.1	183.8	182.1	--	181.8	183.6	184.8	187.8	180.3	--	181.0	174.5	169.6	173.6	176.6	174.1	172.6	--	--	167.6	177.0	170.8	169.2	164.5	165.5	164.1	164.9	169.3
No. invalid days	No. invalid days	4	--	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
ELV1 exceedances	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

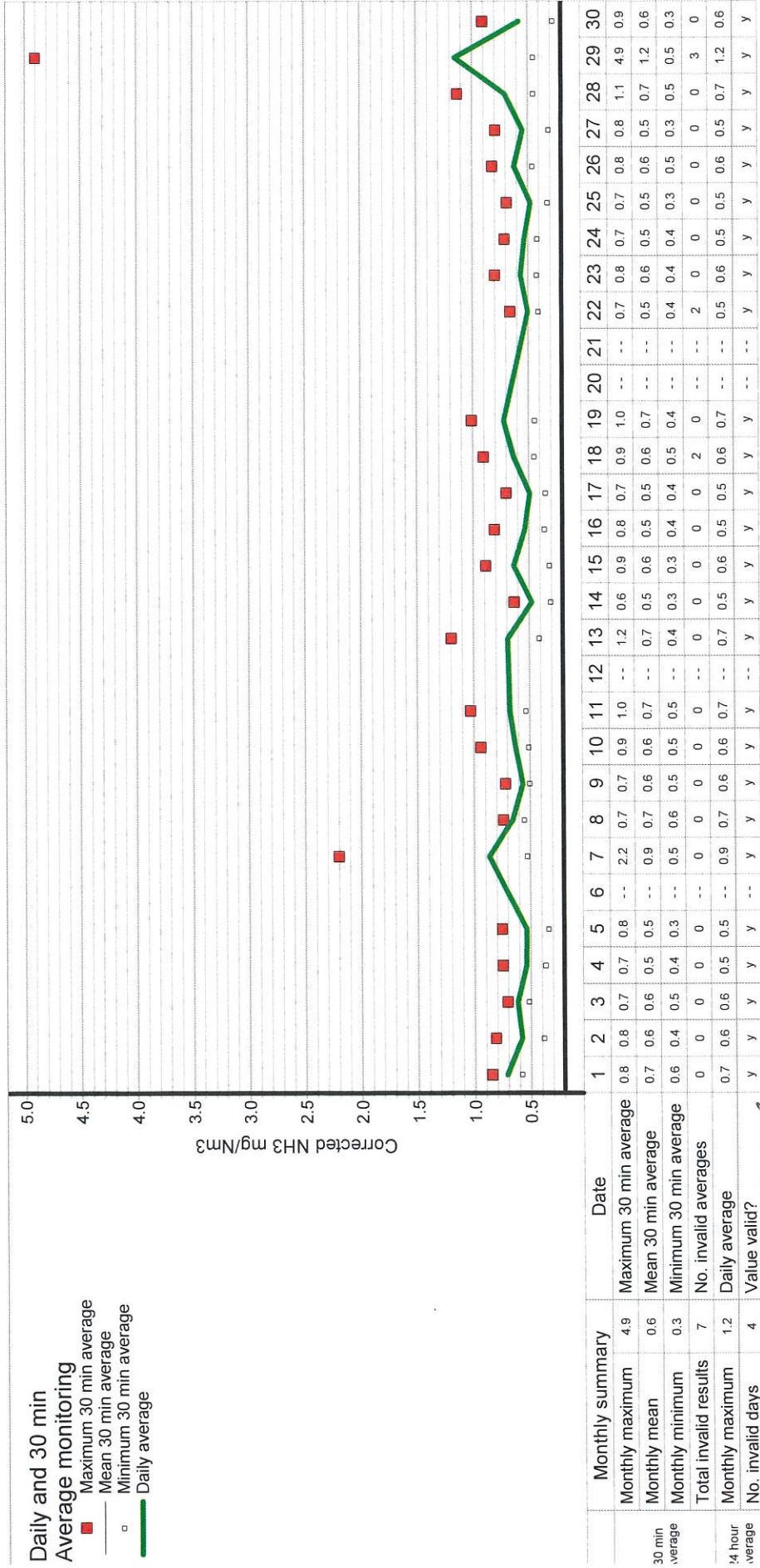
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(Authorised to sign as representative of Operator)

Date: 16/7/18

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 June 2018



Signed
(Authorised to sign as representative of Operator)

Date: 16/7/18