

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

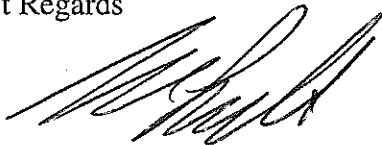
Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 29th February 2016.

During the period we did not have any reportable exceedances of our permitted limits.

You will note that on 24th February it is reported that CO exceeded the permitted ELV. This was not reported as it occurred whilst solid fuel was off during maintenance activities on the A-Barn reclaimer screw

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

Best Regards



Kevin Smith
Utilities Manager
UPM (UK) Shotton

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Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

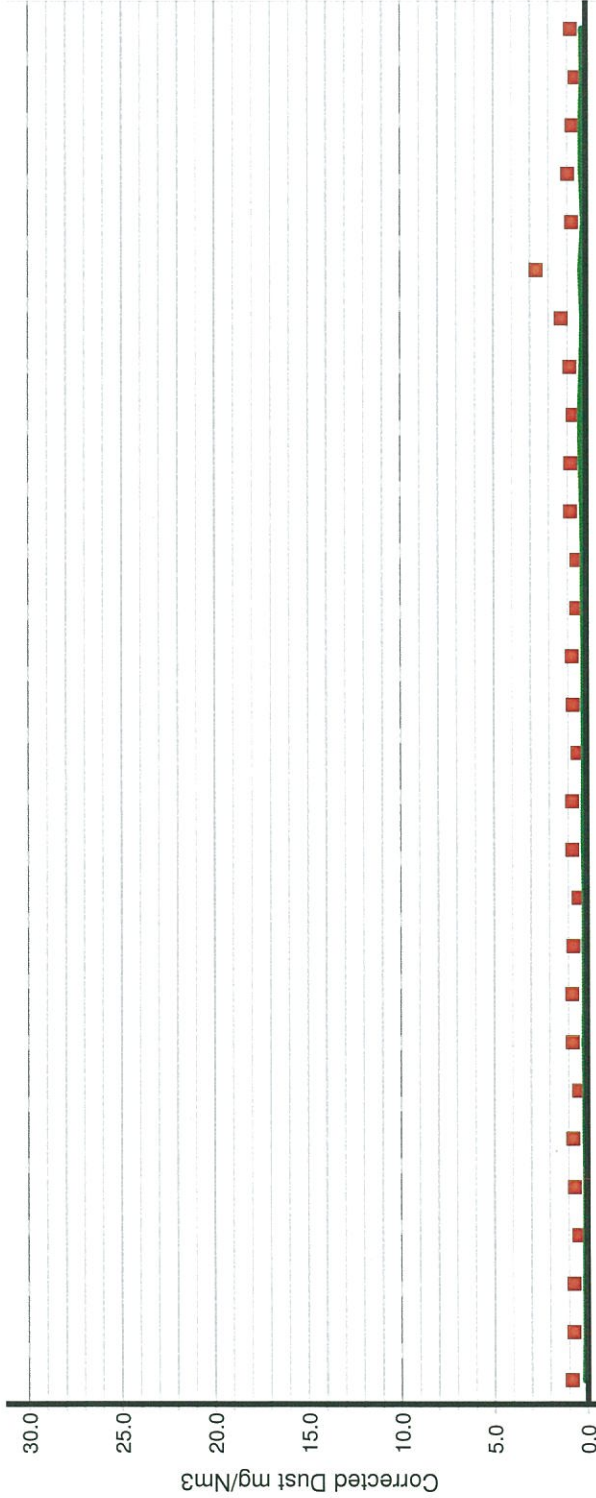
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A2 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of February 2016

Daily and 30 min

Average monitoring

- 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 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	2.7	0.8	0.7	0.4	0.7	0.8	0.4	0.8	0.8	0.4	0.8	0.7	0.4	0.8	0.8	0.5	0.7	0.8	0.5	0.5	0.8	0.8	0.8	0.8	0.7	0.9	1.3	2.7	0.8	1.0	0.7	0.6	0.8
	Monthly mean	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.2	
	Monthly minimum	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	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	
	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	0	0	0	0	
24 hour Average	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	
	--	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	
	0.3	Daily average	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.2	
	0	No. invalid days	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	

Signed
(Authorised to sign as representative of Operator)

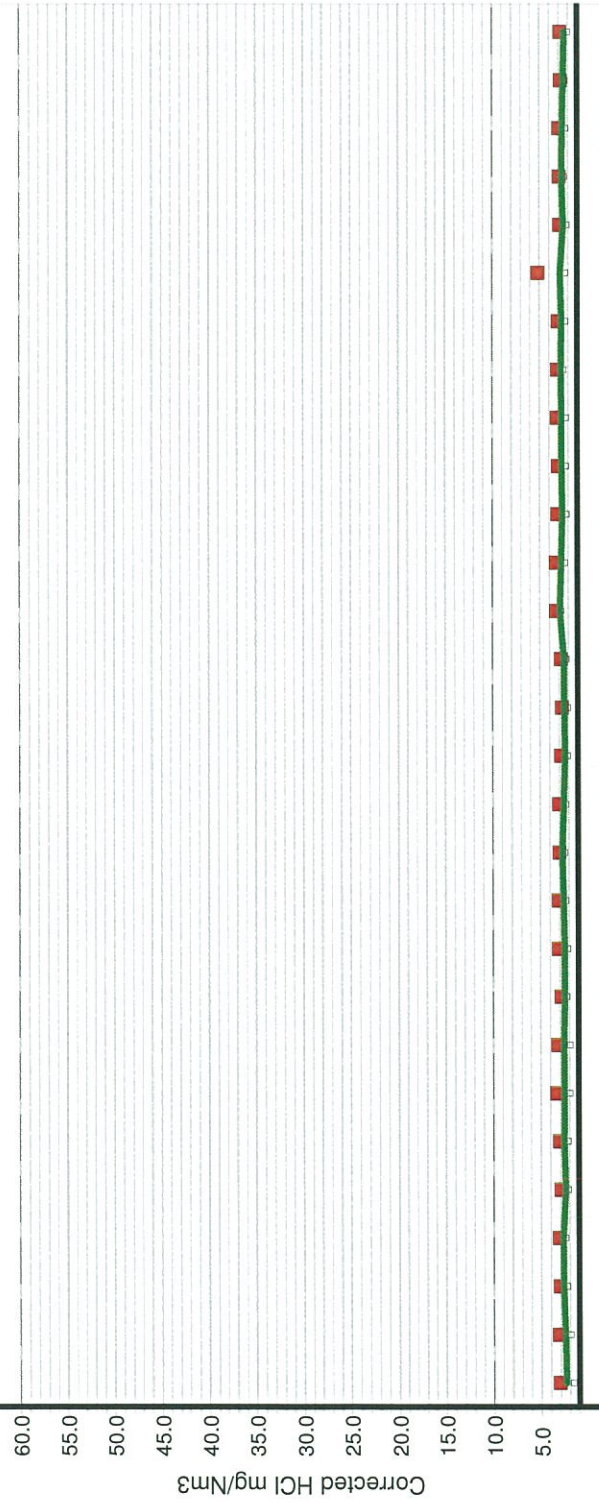
Date: 4/3/16

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of February 2016

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 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	60	60	60	60		
	Monthly maximum	5.2	3.1	3.1	3.1	2.9	3.0	3.3	3.2	2.8	3.1	3.1	3.0	3.0	2.8	2.7	2.8	3.3	3.3	3.1	3.1	3.1	3.1	3.2	3.1	3.1	5.2	2.9	3.0	2.8	2.8	2.8		
	Monthly mean	2.6	2.4	2.5	2.7	2.7	2.4	2.6	2.5	2.6	2.5	2.6	2.7	2.5	2.4	2.5	2.5	2.9	2.8	2.6	2.7	2.7	2.8	2.7	2.8	2.5	2.7	2.6	2.5	2.4	2.5	2.4		
	Monthly minimum	1.6	1.6	1.9	2.3	2.4	2.1	2.1	1.9	1.9	2.2	2.1	2.3	2.4	2.3	2.1	2.1	2.2	2.8	2.3	2.2	2.2	2.2	2.2	2.2	2.5	2.3	2.3	2.1	2.4	2.2	2.3	2.0	
24 hour Average	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	
	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	
	--	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	
	Monthly maximum	2.9	Daily average	2.4	2.5	2.7	2.7	2.4	2.6	2.5	2.6	2.5	2.6	2.5	2.5	2.6	2.7	2.5	2.4	2.5	2.5	2.9	2.8	2.6	2.7	2.7	2.8	2.7	2.8	2.5	2.7	2.6	2.5	2.4
	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	
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  (Authorised to sign as representative of Operator)

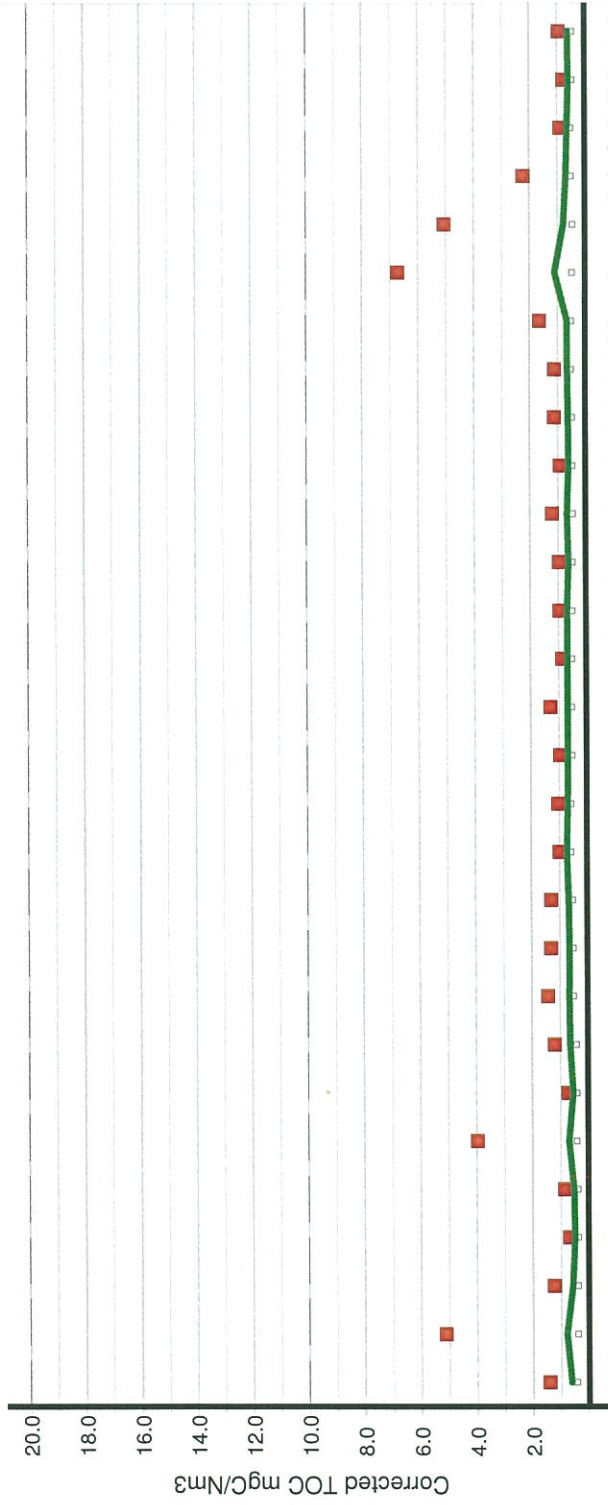
Date 4/3/16

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of February 2016

Daily and 30 min

Average monitoring

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

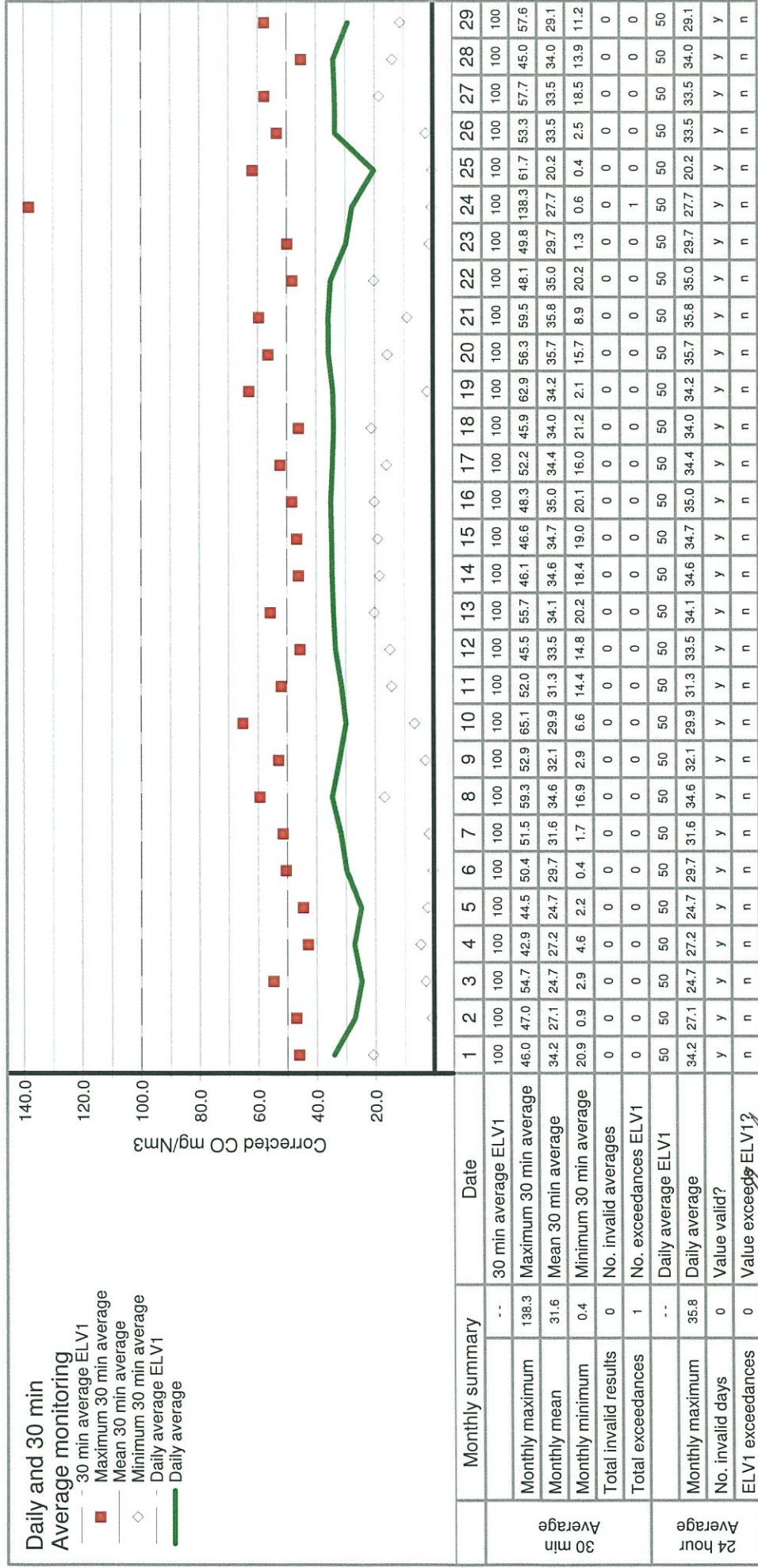


Monthly summary		Date																															
--		30 min average ELV1		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
30 min Average	Monthly maximum	6.7	Maximum 30 min average	1.4	5.1	1.2	0.7	0.9	4.0	0.7	1.2	1.4	1.3	1.3	1.0	1.0	1.0	1.3	0.9	1.0	1.0	1.2	0.9	1.1	1.1	1.6	6.7	5.1	2.2	0.9	0.8	0.9	
	Monthly mean	0.7	Mean 30 min average	0.6	0.8	0.6	0.5	0.5	0.7	0.5	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.7	1.1	0.8	0.7	0.6	0.6	0.6		
	Monthly minimum	0.4	Minimum 30 min average	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	
	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	
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	
24 hour 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
	Monthly maximum	1.1	Daily average	0.6	0.8	0.6	0.5	0.5	0.7	0.5	0.6	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.6	0.7	1.1	0.8	0.7	0.6	0.6	0.6	
	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	
	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	

Date: 4/3/16

Signed: (Authorised to sign as representative of Operator)

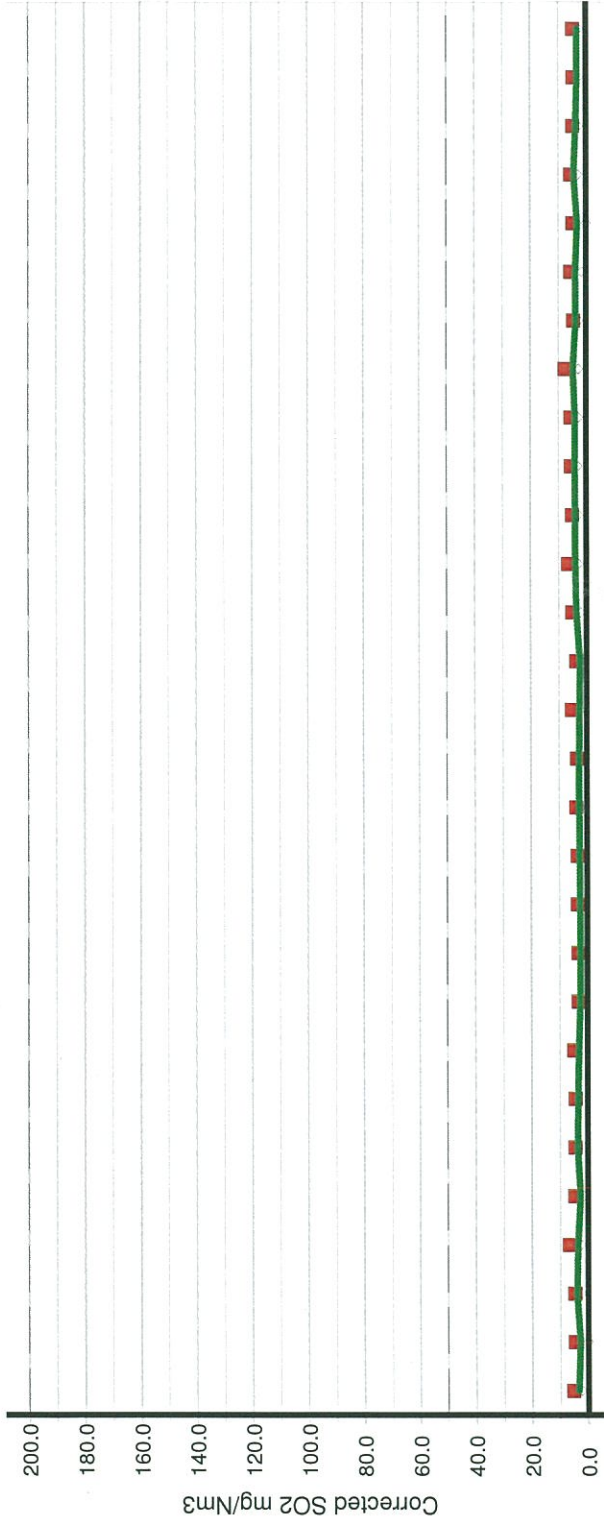
Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide Emission Point A20 for the month of February 2016



Signed Date 4/3/16
(Authorised to sign as representative of Operator)

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of February 2016

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 ELV1	200	200	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 min Average	Monthly maximum	7.6	5.3	4.6	4.7	6.7	4.6	4.5	4.3	4.8	3.1	3.2	3.4	3.4	3.9	3.5	5.3	5.3	3.7	5.0	6.5	5.1	5.3	5.6	7.6	4.6	5.5	4.8	5.5	4.7	4.6	4.7
	Monthly mean	3.4	3.4	2.9	4.0	3.6	2.8	3.6	3.5	3.2	2.6	2.4	2.5	2.7	2.8	2.8	2.6	2.6	2.4	3.7	4.0	4.0	4.1	4.0	4.7	3.7	3.8	3.1	4.4	3.7	3.2	3.2
	Monthly minimum	0.0	2.3	0.0	2.4	2.5	1.5	1.0	2.1	2.3	1.8	2.1	2.2	2.4	2.5	2.4	2.2	2.2	2.0	2.0	2.7	2.9	3.0	2.7	2.8	2.7	1.7	0.0	2.9	2.9	2.7	2.7
	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	0	0	0
24 hour Average	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
	--	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
	4.7	Daily average	3.4	2.9	4.0	3.6	2.8	3.6	3.5	3.2	2.6	2.4	2.5	2.7	2.8	2.8	2.6	2.6	2.4	3.7	4.0	4.0	4.1	4.0	4.7	3.7	3.8	3.1	4.4	3.7	3.2	3.2
	No. invalid days	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
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	n	n

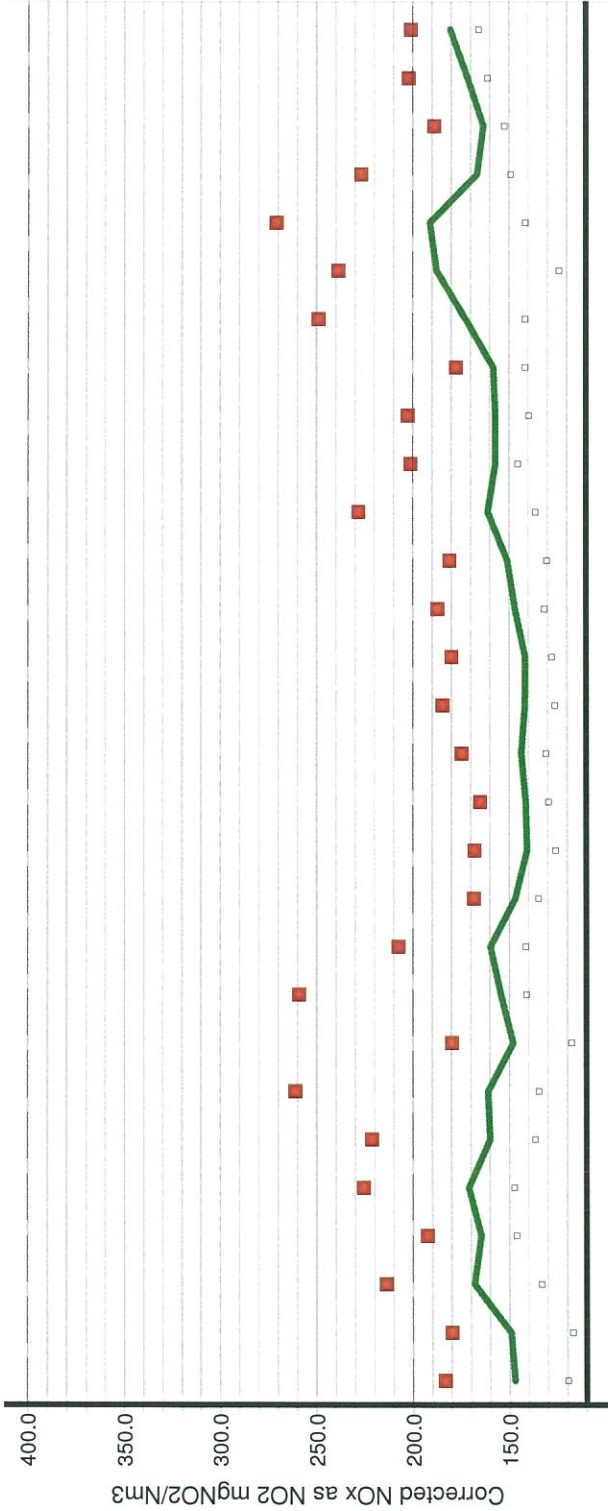
Signed  Date 4/3/16

(Authorised to sign as representative of Operator)

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of February 2016

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



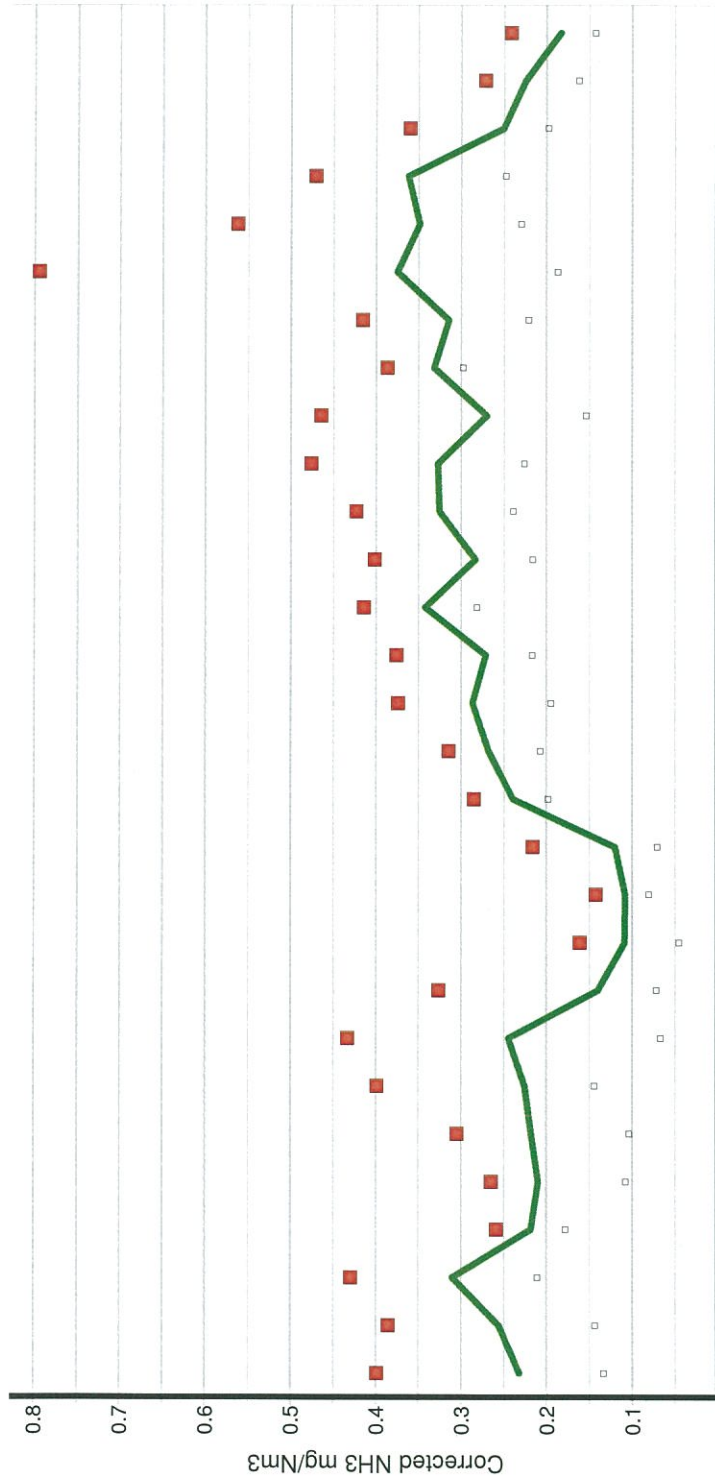
Average 30 min	Monthly summary		Date																														
	--	30 min average ELV1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Average 24 hour	Monthly maximum	270.6																															
	Monthly mean	158.7																															
	Monthly minimum	117.0																															
	Total invalid results	0																															
Average 24 hour	Total exceedances	0																															
	Daily average ELV1	--																															
	Daily maximum	190.9																															
	No. invalid days	0																															
Average 24 hour	Value exceeds ELV1?	0																															
	Value exceeds ELV1?	0																															

Signed Date 4/3/16
(Authorised to sign as representative of Operator)

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of February 2016

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
Monthly maximum	0.8	Maximum 30 min average		0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.2	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.8	0.6	0.5	0.4	0.3	0.2
Monthly mean	0.3	Mean 30 min average		0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.2	0.2	0.2
Monthly minimum	0.0	Minimum 30 min average		0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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
Monthly maximum	0.4	Daily average		0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.2	0.2	0.2
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

[Signature]

Signed
(Authorised to sign as representative of Operator)

Date 4/3/16