



Title: Reporting Incinerator CEM

Area: Manufacturing

Issue No.: 1

Ref:

Last printed: 08/01/2019

Date of Issue: 21/12/2006

Related Document: BU2357/AP3634

Created on: 21-12-2006

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Incinerator Summary Report - September 2018

Day			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Running time	Residue	h	24	24	24	24	24	24	24	8	0	8	6.5	14	4	17.5	24	24	24	22.5
	Gas	h	0	0	0	0	0	0	0	0	4	16	18.5	13	13.5	7	0	0	0	2
	Residue & gas	h	0	0	0	0	0	0	0	0	0	0.5	1.5	3.5	1.5	0.5	0	0	0	0.5
	Idle	h	0	0	0	0	0	0	0	16	20	0.5	0.5	0.5	8	0	0	0	0	0
Total flow	Residue	kg	11778.7	12418.4	12001.6	12001.7	10058.7	10050	9609	3072.7	0	3229.5	1886.8	4709.7	1227.6	6915.6	10807.5	12495.8	14583.2	13037.1
	Gas	m3	0	0	0	0	0	0	0	0	500	1852.2	2216.2	1469	1615.5	861.8	0	0	0	235.9
	Air	m3	146002	148691	144904	144903	120889	120803	111915	226714	173923	129891	94033	107402	140616	106549	118513	145171	175116	164681
NOx (normalised)	Min	mg/m3	240.8	215.3	118.7	136.7	147.4	219.9	194.6	77.3		231	47.2	108.4	0.9	195.4	195.4	136.5	58.7	0
	Ave	mg/m3	318.1	382.3	217.3	174.7	216.4	315.4	254.4	216		493.2	765.2	440.9	710.5	485.9	285.5	229.5	158	146.3
	Max	mg/m3	401.7	576.2	369.2	201.1	269.4	463.4	329.7	237.3		1314.5	1797.8	1805	1651.6	1483.4	411.4	429.1	220	1352.7
	Exceeds daily ELV ?	[400 mg/m3]	N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	N	N	
CO (normalised)	Min	mg/m3	-4.4	-4.7	-4.6	-4.6	-4.6	-4.4	-3.9	-4		-2.8	-2.3	-4.1	-3.5	-3.4	-3.9	-3.9	-2.4	-3.1
	Ave	mg/m3	-4.2	-3.4	-3.3	-3.9	-3.7	-4	-3.8	-3.8		-2.4	0.6	-1.8	5.1	-2.5	-2.9	-2.6	-2.1	-1.2
	Max	mg/m3	0	0	0	0	0	0	0	0		0	17.4	12.8	60.6	0	0	0	0	0
	30m ELV exceedances	[100 mg/m3]	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Particulates (normalised)	Min	mg/m3	4.3	5.1	5.6	10.8	11.8	8.6	10.5	3.8		1	0.3	0.8	1	1.6	8.1	8.5	6.1	0
	Ave	mg/m3	5.2	5.5	10.3	13.3	13.9	12	12.5	11.1		7.6	3.4	5.6	6.7	7.3	9.9	13.7	15.8	9.4
	Max	mg/m3	6.4	6	13.4	15	16.5	15.1	17	12.5		8.7	19.4	8.9	21.4	10.1	27.5	23.1	20	39.4
	30m ELV exceedances	[30 mg/m3]	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	1
VOC (normalised)	Min	mg/m3	0.2	0.2	0.1	0.1	0.1	0.3	0.3	0.1		1.2	0.4	1.2	2.2	1.2	0.5	0.5	0.2	0
	Ave	mg/m3	0.4	0.3	0.2	0.2	0.3	0.4	0.4	0.3		1.6	3.5	3.9	4.8	2	0.8	0.6	0.5	0.3
	Max	mg/m3	0.7	0.4	0.3	0.2	0.6	0.5	0.6	0.4		2.1	8.9	10.5	9.7	3.3	1.2	0.7	0.8	0.9
	30m ELV exceedances	[20 mg/m3]	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Exceeds daily ELV ?		[10 mg/m3]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

NOTES

Invalid data points are not reported because the incinerator is not operated at any time whilst CEM equipment is being maintained or calibrated



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Day			19	20	21	22	23	24	25	26	27	28	29	30	TOTALS
Running time	Residue	h	24	18.5	24	24	24	24	11.5	0	2.5	7.5	14	5.5	500
	Gas	h	0	5.5	0	0	0	0	12.5	24	19	15.5	11	4	165.5
	Residue & gas	h	0	0	0	0	0	0	0	0	0	0.5	1.5	0	10
	Idle	h	0	0	0	0	0	0	0	0	2.5	1.5	0.5	14.5	64.5
Total flow	Residue	kg	14390	10802.1	14153	14401.4	14299.8	13744.5	6041.3	0	1004.4	2670	5134.4	2308.7	248.8 tonnes
	Gas	m3	0	636.7	0	0	0	0	1482.7	2784	2212.6	1874.5	1317.5	479.4	19538 m3
	Air	m3	168442	146680	164943	168336	169765	163095	130243	104146	92820	97700	101596	47792	4076273 m3
NOx (normalised)	Min	mg/m3	0	0	0	0	0	0	0		57.3	4.7	0	195.2	
	Ave	mg/m3	37.1	41.7	39.3	0	0	0	144.5		645	593	336.5	227.1	
	Max	mg/m3	259.6	883.5	712.5	0	0	0	734.6		1229.5	1274.8	940.9	329.1	
	Exceeds daily ELV ?	[400 mg/m3]	N	N	N	N	N	N	N	Y	Y	N	N		7 exceedances
CO (normalised)	Min	mg/m3	-2.5	-1.4	-2.5	0	0	0	-1.4		-2.4	-2.3	-2.4	-2.2	
	Ave	mg/m3	-0.4	-0.1	-0.1	0	0	0	-0.3		0.5	-1.2	-0.9	-2	
	Max	mg/m3	0	0	0	0	0	0	0		8.3	0.8	20.6	0	
	30m ELV exceedances	[100 mg/m3]	0	0	0	0	0	0	0		0	0	0	0	0 exceedances
	Exceeds daily ELV ?	[50 mg/m3]	N	N	N	N	N	N		N	N	N	N		0 exceedances
Particulates (normalised)	Min	mg/m3	0	0	0	0	0	0	0		0	0	0	0	
	Ave	mg/m3	3	0.5	1.8	0	0	0	1.7		0	0	0	0	
	Max	mg/m3	17.9	7.3	39.1	0	0	0	9.2		0	0	0	0	
	30m ELV exceedances	[30 mg/m3]	0	0	1	0	0	0	0		0	0	0	0	2 exceedances
	Exceeds daily ELV ?	[10 mg/m3]	N	N	N	N	N	N		N	N	N	N		8 exceedances
VOC (normalised)	Min	mg/m3	0	0	0	0	0	0	0		0	0	0	0	
	Ave	mg/m3	0.1	0	0	0	0	0	0.1		0	0	0	0	
	Max	mg/m3	0.6	0.7	0.7	0	0	0	0.6		0	0	0	0	
	30m ELV exceedances	[20 mg/m3]	0	0	0	0	0	0	0		0	0	0	0	0 exceedances
	Exceeds daily ELV ?	[10 mg/m3]	N	N	N	N	N	N		N	N	N	N		0 exceedances

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