



WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY DRAFT - COMPLIANCE SUMMARY REPORT



Date 8/7/24

Plant Wheelabrator North Andover

NOTE: Emission & Process results may change after Startup, Shutdown, Malfunction data validation

Unit Unit 1
Source Outlet

Date	Hour	On-Line Minutes	O2		NOx		SO2					CO			Carbon Feed		FF Temp (deg F)		Steam KLbs/Hr			
			Out Vol % Dry	Status	Outlet ppm 7%O2	Status	Outlet ppm 7%O2	Status	Inlet ppm 7%O2	Status	Removal	Status	Outlet ppm 7%O2	Status	4 Hr Block	Status	Lbs/Hr Avg.	8 Hr Block	1 Hr Avg.	4 Hr Block	1 Hr Avg.	4 Hr Block
8/7/2024	0	0	21.4	IF	0	IF	2	IF	-260	IBF	0	IBF	0	IF		0		86		3.4		
8/7/2024	1	0	21.3	IF	0	IF	2	IF	-266	IBF	0	IBF	0	IF		0		85		3.5		
8/7/2024	2	0	21.4	IF	0	IF	2	IF	-277	IBF	0	IBF	0	IF		1		85		3.5		
8/7/2024	3	0	20.5	ICF	0	ICF	2	ICF	-280	IBF	0	IBCF	0	ICF	0	ICF	0	84	85	3.4	3.5	
8/7/2024	4	0	17.6	IBCF	69	IBCF	52	IBCF	-277	IBF	0	IBCF	600	IBCF		0		84		3.2		
8/7/2024	5	0	21.4	IF	0	IF	3	IF	159	IBCF	98	IBCF	0	IF		1		81		3.4		
8/7/2024	6	0	21.4	IF	0	IF	3	IF	-295	IBF	0	IBF	0	IF		0		79		3.3		
8/7/2024	7	0	21.4	IF	0	IF	3	IF	-295	IBF	0	IBF	0	IF	150	IBCF	0	0	78	80	3.1	3.2
8/7/2024	8	0	21.4	IF	0	IF	3	IF	-307	IBF	0	IBF	0	IF		0		77		0.4		
8/7/2024	9	0	21.4	IF	0	IF	3	IF	-308	IBF	0	IBF	0	IF		0		78		0.0		
8/7/2024	10	0	21.4	IF	0	IF	3	IF	-309	IBF	0	IBF	0	IF		0		81		0.0		
8/7/2024	11	0	21.3	IF	0	IF	3	IF	-308	IBF	0	IBF	0	IF	0	IF	0	83	80	0.0	0.1	
8/7/2024	12	0	21.3	IF	0	IF	3	IF	-283	IBF	0	IBF	0	IF		0		84		0.0		
8/7/2024	13	0	21.3	IF	0	IF	3	IF	-90	IBF	0	IBF	0	IF		0		84		0.0		
8/7/2024	14	0	21.3	IF	0	IF	3	IF	-118	IBF	0	IBF	0	IF		0		82		0.0		
8/7/2024	15	0	21.3	IF	0	IF	3	IF	-101	IBF	0	IBF	0	IF	0	IF	0	81	83	0.0	0.0	
8/7/2024	16	0	21.3	IF	0	IF	3	IF	-69	IBF	0	IBF	0	IF		1		81		0.0		
8/7/2024	17	0	21.3	IF	0	IF	3	IF	-82	IBF	0	IBF	0	IF		1		80		0.0		
8/7/2024	18	0	21.3	IF	0	IF	3	IF	-56	IBF	0	IBF	0	IF		0		80		0.0		
8/7/2024	19	0	21.3	IF	0	IF	3	IF	-84	IBF	0	IBF	0	IF	0	IF	0	79	80	0.0	0.0	
8/7/2024	20	0	21.4	IF	0	IF	4	IF	-278	IBF	0	IBF	0	IF		0		78		0.0		
8/7/2024	21	0	21.3	IF	0	IF	4	IF	187	IBF	98	IBF	0	IF		0		76		0.0		
8/7/2024	22	0	21.3	IF	0	IF	4	IF	2326	IBF	100	IBF	0	IF		0		77		0.0		
8/7/2024	23	0	21.3	IF	0	IF	3	IF	-96	IBF	0	IBF	0	IF	0	IF	0	81	78	0.3	0.1	

Average:
Geometric Mean Average:

Limit:

3 IBCF
3 IBCF
≤ 150 24-HR Block Avg.
≤ 29 24-HR Geometric Mean

OR

0 IBCF
≥ 80% Removal Efficiency

see above
≤ 69 ppmc 4-HR Block Average

see above
≥ 12 lb/hr 8-HR. Block Average

see above
≤ 345 °F 4-HR Block Average

see above
≤ 173 klb/hr 4-HR Block Average

Status Flags

- I - Invalid
- B - Bad
- C - Calibration
- M - Maintenance
- F - Offline
- P - Purge
- T - Out of Control
- E - Excluded
- ^ - Startup
- * - Shutdown



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Date 8/7/24

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Unit Unit 2
Source Outlet

Date	Hour	On-Line Minutes	O2		NOx		SO2					CO			Carbon Feed		FF Temp (deg F)		Steam KLbs/Hr		
			Out Vol % Dry	Status	Outlet ppm 7%O2	Status	Outlet ppm 7%O2	Status	Inlet ppm 7%O2	Status	Removal	Status	Outlet ppm 7%O2	Status	4 Hr Block	Status	Lbs/Hr Avg.	8 Hr Block	1 Hr Avg.	4 Hr Block	1 Hr Avg.
8/7/2024	0	58	10.5		138		0		31		100		7			15		310		166.8	
8/7/2024	1	60	10.5		140		0		33		100		8			11		310		165.9	
8/7/2024	2	60	10.5		138		0		40		95		7			16		310		165.9	
8/7/2024	3	60	10.6		140		0		26		100		7	7		17		310	310	165.8	166.1
8/7/2024	4	60	10.6		141		0		25		100		8			9		310		169.1	
8/7/2024	5	60	11.0		141		0		34		99		8			11		310		166.1	
8/7/2024	6	60	10.8		139		0		31		100		9			21		311		167.1	
8/7/2024	7	60	11.0		139		0		39		99		9	8		21	15	310	310	167.4	167.4
8/7/2024	8	60	11.2		141		0		18		100		9			16		310		162.2	
8/7/2024	9	60	11.4		136		0		15		100		8			14		310		165.5	
8/7/2024	10	60	11.2		139		0		17		100		9			15		310		167.9	
8/7/2024	11	60	11.4		126		0		7		100		4	7		14		310	310	167.6	165.8
8/7/2024	12	60	10.8		143		0		11		100		7			13		310		166.9	
8/7/2024	13	60	10.6		140		0		18		100		9			14		310		164.4	
8/7/2024	14	60	11.2		138		0		14		100		8			20		309		166.0	
8/7/2024	15	60	11.0		138		0		16		100		7	8		17	15	310	310	165.4	165.7
8/7/2024	16	60	10.7		140		0		23		100		9			15		311		165.9	
8/7/2024	17	60	10.6		141		2		45		95		9			17		310		167.5	
8/7/2024	18	60	10.5		139		3		40		92		8			16		310		167.7	
8/7/2024	19	60	10.5		137		0		31		100		8	8		15		310	310	166.5	166.9
8/7/2024	20	60	10.7		140		0		28		100		7			15		309		167.5	
8/7/2024	21	60	10.7		140		0		27		100		7			15		310		166.9	
8/7/2024	22	60	10.8		139		0		28		100		7			14		310		168.1	
8/7/2024	23	60	10.9		142		0		19		100		7	7		15	15	310	310	166.5	167.2

Average: Geometric Mean Average:	139	0	OR	100	see above	see above	see above	
Limit:	≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean		≥ 80% Removal Efficiency	≤ 69 ppmc 4-HR Block Average	≥ 12 lb/hr 8-HR. Block Average	≤ 345 °F 4-HR Block Average	≤ 173 klb/hr 4-HR Block Average

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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 07-Aug-2024

Plant Wheelabrator North Andover
Unit Unit 1
Source Outlet

Opacity is a measure of how much soot or smoke may be contained in stack emissions. The more smoke that is contained in the emissions the higher the level of opacity. Continuous opacity monitors located after all of the air pollution control equipment measure the opacity of the emissions from each boiler. Typically the human eye can not detect or see smoke that is less than 5% opacity. You won't see smoke from a modern trash-to-energy plant although in colder weather you will see water vapor condensation, similar to seeing your breath on a cold day. This is not considered opacity. We have a permit limit established by the Massachusetts Department of Environmental Protection of 10% opacity averaged every six (6) minutes.

Limit 10 %

Time (hr)	1-6 min		7-12 min		13-18 min		19-24 min		25-30 min		31-36 min		37-42 min		43-48 min		49-54 min		55-60 min		Average
0	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
1	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
2	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
3	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
4	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
5	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
6	2	ICF	23	ICF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	4
7	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
8	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
9	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
10	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
11	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
12	1	IF	2	IF	2	IF	1	IF	1	IF	1	IF	1	IF	2	IF	1	IF	1	IF	1
13	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
14	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
15	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
16	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
17	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
18	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
19	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
20	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
21	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
22	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
23	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1

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Limit 10 %

Time (hr)	1-6 min	7-12 min	13-18 min	19-24 min	25-30 min	31-36 min	37-42 min	43-48 min	49-54 min	55-60 min	Average
0	2	I	2	I	2	2	2	2	2	2	2
1	2		2		2	2	2	2	2	2	2
2	2		2		2	2	2	2	2	2	2
3	2		2		2	2	2	2	2	2	2
4	2		2		2	2	2	2	2	2	2
5	2		2		2	2	2	2	2	2	2
6	1	IC	6	IC	2	2	2	2	2	2	2
7	2		2		2	2	2	2	2	2	2
8	2		2		2	2	2	2	2	2	2
9	2		2		2	2	2	2	2	2	2
10	2		2		2	2	2	2	2	2	2
11	2		2		2	2	2	2	2	2	2
12	2		2		2	2	2	2	2	2	2
13	2		2		2	2	2	2	2	2	2
14	2		2		2	2	2	2	2	2	2
15	2		2		2	2	2	2	2	2	2
16	2		2		2	2	2	2	2	2	2
17	2		2		2	2	2	2	2	2	2
18	2		2		2	2	2	2	2	2	2
19	2		2		2	2	2	2	2	2	2
20	2		2		2	2	2	2	2	2	2
21	2		2		2	2	2	2	2	2	2
22	2		2		2	2	2	2	2	2	2
23	2		2		2	2	2	2	2	2	2

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