



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



Date 9/9/24

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.
9/9/2024	0	58	10.9		140		26		61		57		1			13		309		165.8	
9/9/2024	1	60	10.9		141		22		58		62		0			13		309		167.7	
9/9/2024	2	60	11.0		142		19		55		66		0			13		309		165.8	
9/9/2024	3	60	10.9		141		24		78		69		0	0		13		310	309	167.1	166.6
9/9/2024	4	60	10.8		141		21		63		66		0			13		310		167.9	
9/9/2024	5	60	10.8		141		29		72		60		0			13		309		168.3	
9/9/2024	6	60	10.6		140		24		60		61		0			13		309		170.9	
9/9/2024	7	60	10.6		143		17		45		62		0	0		13	13	311	310	166.5	168.4
9/9/2024	8	60	10.8		140		31		46		32		0			13		309		165.1	
9/9/2024	9	60	11.1		140		21		33		38		0			13		309		167.5	
9/9/2024	10	54	11.0		141		13		34		61		1			13		310		167.0	
9/9/2024	11	60	10.7		142		15		39		62		1	1		13		309	309	167.6	166.8
9/9/2024	12	60	10.8		140		16		33		52		1			13		309		166.9	
9/9/2024	13	60	10.7		141		18		26		31		1			13		310		166.4	
9/9/2024	14	60	10.7		142		16		20		21		1			13		309		165.4	
9/9/2024	15	60	10.6		139		18		23		21		1	1		13	13	309	309	167.9	166.7
9/9/2024	16	60	10.8		142		16		22		27		1			13		310		165.8	
9/9/2024	17	60	10.7		142		17		27		36		0			13		309		167.2	
9/9/2024	18	60	10.6		140		17		28		38		0			13		310		167.6	
9/9/2024	19	60	10.6		142		13		22		41		2	1		13		309	310	166.4	166.7
9/9/2024	20	60	10.6		140		13		19		30		1			13		309		166.0	
9/9/2024	21	60	10.5		142		19		24		22		1			13		309		167.7	
9/9/2024	22	60	10.7		140		16		28		44		0			13		310		165.1	
9/9/2024	23	60	10.5		140		18		43		57		1	1		13	13	309	309	168.4	166.8

Average: Geometric Mean Average:	141	19	<b>OR</b>	49	see above	see above	see above	see above			
Limit:	≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean		≥ 80% Removal Efficiency	≤ 69 4-HR Block Average	ppmc	≥ 12 8-HR. Block Average	lb/hr	≤ 345 °F 4-HR Block Average	klb/hr	≤ 173 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 9/9/24

Plant Wheelabrator North Andover

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

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.
9/9/2024	0	58	10.9		138		24		71		66		5			13		310		166.7	
9/9/2024	1	60	10.7		141		22		64		66		5			13		310		166.7	
9/9/2024	2	60	10.8		140		15		53		71		5			13		310		165.6	
9/9/2024	3	60	10.8		139		17		51		67		5	5		13		310	310	168.3	166.8
9/9/2024	4	60	10.7		143		18		59		69		7			13		310		168.9	
9/9/2024	5	60	11.0		140		21		42		51		7			13		310		165.7	
9/9/2024	6	60	10.7		140		21		43		51		6			13		310		166.4	
9/9/2024	7	60	10.8		139		18		37		52		7	7		13	13	310	310	164.5	166.4
9/9/2024	8	60	11.0		134		6		22		74		6			14		310		168.3	
9/9/2024	9	60	11.3		129		9		39		78		104			13		309		166.2	
9/9/2024	10	60	11.2		138		1		19		97		8			13		310		165.1	
9/9/2024	11	60	11.0		138		4		35		89		8	31		13		310	310	166.6	166.6
9/9/2024	12	60	10.6		139		0		22		99		8			14		310		167.1	
9/9/2024	13	60	10.6		140		0		25		98		7			14		310		166.8	
9/9/2024	14	60	10.5		140		3		35		91		8			14		310		167.6	
9/9/2024	15	60	10.5		139		2		28		94		7	8		13	14	310	310	167.1	167.2
9/9/2024	16	60	10.4		139		1		24		98		7			14		310		167.1	
9/9/2024	17	60	10.5		140		9		34		75		7			14		310		168.1	
9/9/2024	18	60	10.3		140		1		23		94		7			14		310		167.4	
9/9/2024	19	60	10.3		139		3		30		89		7	7		13		309	310	168.1	167.7
9/9/2024	20	60	10.4		140		1		28		98		6			14		310		166.6	
9/9/2024	21	60	10.5		141		7		39		81		7			14		310		167.3	
9/9/2024	22	60	10.5		139		4		33		88		7			14		310		166.4	
9/9/2024	23	60	10.5		140		16		47		66		7	7		14	14	310	310	167.4	166.9

Average: Geometric Mean Average:	<b>139</b>	<b>4</b>	<b>OR</b>	<b>87</b>	see above	see above	see above	see above
Limit:	<b>≤ 150</b> 24-HR Block Avg.	<b>≤ 29</b> 24-HR Geometric Mean		<b>≥ 80%</b> Removal Efficiency	<b>≤ 69</b> ppmc 4-HR Block Average	<b>≥ 12</b> lb/hr 8-HR. Block Average	<b>≤ 345</b> °F 4-HR Block Average	<b>≤ 173</b> klb/hr 4-HR Block Average

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# WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 09-Sep-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	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	2	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	I	I	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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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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