



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



Date 7/24/24

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.
7/24/2024	0	58	10.7		141		33		125		73		0			13		309		166.4	
7/24/2024	1	60	10.5		143		16		78		80		0			13		306		168.3	
7/24/2024	2	60	10.6		141		18		69		74		0			13		305		167.2	
7/24/2024	3	60	10.7		140		23		64		64		0	0		13		304	306	166.3	167.1
7/24/2024	4	60	10.6		144		6		59		90		0			11		305		166.0	
7/24/2024	5	60	10.5		139		1		43		98		1			13		305		167.7	
7/24/2024	6	60	10.7		143		5		36		87		0			13		304		165.3	
7/24/2024	7	60	10.5		139		20		41		52		0	0		13	13	304	304	167.7	166.7
7/24/2024	8	60	11.1		136		0		25		100		0			13		303		166.4	
7/24/2024	9	60	10.7		143		0		33		99		0			13		310		168.0	
7/24/2024	10	60	10.9		141		8		41		82		0			13		309		168.7	
7/24/2024	11	60	10.6		142		8		49		84		0	0		13		310	308	165.0	167.0
7/24/2024	12	60	10.7		140		6		42		85		0			13		310		167.3	
7/24/2024	13	60	10.9		142		13		38		65		0			13		310		164.8	
7/24/2024	14	60	10.9		141		18		47		62		1			13		309		167.8	
7/24/2024	15	60	11.0		141		24		49		50		1	1		13	13	310	309	168.7	167.1
7/24/2024	16	60	11.0		143		20		46		57		1			13		310		166.2	
7/24/2024	17	60	11.1		138		103		130		21		1			13		309		169.5	
7/24/2024	18	60	10.9		142		49		74		34		1			13		310		168.3	
7/24/2024	19	60	10.6		140		25		55		55		1	1		13		310	309	166.5	167.6
7/24/2024	20	60	10.7		142		13		40		67		1			13		310		165.6	
7/24/2024	21	60	11.0		140		12		31		61		0			13		309		166.1	
7/24/2024	22	60	10.8		142		16		39		58		0			13		310		167.3	
7/24/2024	23	60	10.6		140		8		40		79		1	1		13	13	310	309	166.6	166.4

Average:  
Geometric Mean Average:

Limit:

141	9
≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean

OR

81
≥ 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 7/24/24

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.
7/24/2024	0	58	10.9		139		3		84		96		5			13		310		167.5	
7/24/2024	1	60	11.0		139		3		75		97		5			14		310		167.6	
7/24/2024	2	60	10.9		140		0		61		99		5			14		310		164.8	
7/24/2024	3	60	10.9		137		1		69		99		5	5		13		310	310	167.8	166.9
7/24/2024	4	60	10.9		138		0		69		99		5			13		310		167.1	
7/24/2024	5	60	11.1		141		0		52		99		5			13		310		165.9	
7/24/2024	6	60	11.3		139		0		41		100		6			13		310		164.1	
7/24/2024	7	60	11.0		141		0		33		100		6	6		14	13	310	310	168.1	166.3
7/24/2024	8	60	11.4		139		1		34		98		5			14		310		168.0	
7/24/2024	9	60	11.2		137		0		41		100		6			14		310		166.5	
7/24/2024	10	60	11.3		139		0		53		99		7			13		310		167.6	
7/24/2024	11	60	10.9		138		0		34		100		6	6		14		310	310	168.4	167.6
7/24/2024	12	60	10.9		145		2		56		97		12			13		310		173.6	
7/24/2024	13	60	11.3		138		0		36		99		6			13		310		166.8	
7/24/2024	14	60	11.0		138		0		31		100		7			14		310		165.8	
7/24/2024	15	60	11.2		140		0		44		100		5	7		13	14	310	310	169.4	168.9
7/24/2024	16	60	11.1		141		0		47		100		6			13		310		168.2	
7/24/2024	17	60	11.2		136		48		147		67		7			14		310		168.1	
7/24/2024	18	60	10.8		140		9		81		89		6			13		310		167.3	
7/24/2024	19	60	10.4		139		0		49		100		7	7		14		310	310	167.5	167.8
7/24/2024	20	60	10.9		141		0		43		100		6			13		309		168.0	
7/24/2024	21	60	11.0		139		0		43		100		6			13		310		167.8	
7/24/2024	22	60	11.1		139		0		39		100		6			13		310		166.9	
7/24/2024	23	60	10.8		140		0		36		100		6	6		14	14	310	310	167.8	167.6

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

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



Date 24-Jul-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	I	I	1	1	1	1	1	1	1	1
1	1			1	1	1	1	1	1	1	1
2	1			1	1	1	1	1	1	1	1
3	1			1	1	1	1	1	1	1	1
4	1			1	1	1	1	1	1	1	1
5	1			1	1	1	1	1	1	1	1
6	2	IC	5	IC	1	1	1	1	1	1	1
7	1			1	1	1	1	1	1	1	1
8	1			1	1	1	1	1	1	1	1
9	1			1	1	1	1	1	1	1	1
10	1			1	1	1	1	1	1	1	1
11	1			1	1	1	1	1	1	1	1
12	1			1	1	1	1	1	1	1	1
13	1			1	1	1	1	1	1	1	1
14	1			1	1	1	1	1	1	1	1
15	1			1	1	1	1	1	1	1	1
16	1			1	1	1	1	1	1	1	1
17	1			1	1	1	1	1	1	1	1
18	1			1	1	1	1	1	1	1	1
19	1			1	1	1	1	1	1	1	1
20	1			1	1	1	1	1	1	1	1
21	1			1	1	1	1	1	1	1	1
22	1			1	1	1	1	1	1	1	1
23	1			1	1	1	1	1	1	1	1

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Unit Unit 2  
Source Outlet

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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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