



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



Date 5/9/25

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.
5/9/2025	0	60	9.9		141		11		41		73		0			14		309		167.7	
5/9/2025	1	60	9.8		140		14		40		64		0			14		309		166.7	
5/9/2025	2	60	9.9		142		17		60		71		0			14		309		169.9	
5/9/2025	3	60	10.0		142		13		36		65		0	0		13		309	309	167.0	167.8
5/9/2025	4	60	9.9		139		14		35		61		0			13		310		170.5	
5/9/2025	5	60	9.8		140		12		36		67		0			13		309		169.9	
5/9/2025	6	60	9.9		141		14		38		63		0			14		309		168.4	
5/9/2025	7	60	10.0		139		14		47		71		2	1		14	14	309	309	167.2	169.0
5/9/2025	8	60	10.0		143		13		31		59		1			13		309		167.1	
5/9/2025	9	60	9.9		139		10		29		65		0			13		310		168.0	
5/9/2025	10	60	11.6		150		1		48		99		10			14		309		166.2	
5/9/2025	11	60	11.5		142		10		61		84		0	3		13		310	310	167.4	167.2
5/9/2025	12	60	11.7		140		16		61		74		0			12		309		169.5	
5/9/2025	13	60	11.3		143		12		53		78		1			13		310		166.9	
5/9/2025	14	60	11.7		137		18		72		75		1			12		310		168.2	
5/9/2025	15	60	11.6		144		15		50		71		0	1		13	13	309	309	168.2	168.2
5/9/2025	16	60	11.7		141		17		57		69		0			13		309		167.9	
5/9/2025	17	60	11.5		141		9		55		84		1			13		309		166.8	
5/9/2025	18	60	11.6		140		14		52		72		0			13		309		167.1	
5/9/2025	19	60	11.7		142		14		52		72		0	0		12		309	309	168.1	167.5
5/9/2025	20	60	11.5		141		9		49		82		0			14		310		169.8	
5/9/2025	21	60	11.6		137		11		53		79		0			14		309		167.2	
5/9/2025	22	60	11.5		135		7		44		84		1			14		310		166.6	
5/9/2025	23	60	11.3		127		5		40		88		7	2		14	14	309	309	165.1	167.2

Average: Geometric Mean Average:	140	11	<b>OR</b>	77	see above	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

**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 5/9/25

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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.
5/9/2025	0	60	10.0		140		14		51		72		2			13		310		167.7	
5/9/2025	1	60	9.8		139		12		51		77		5			13		311		166.0	
5/9/2025	2	60	9.9		139		14		55		74		3			13		310		168.4	
5/9/2025	3	60	10.3		139		11		46		77		3	3		13		310	310	168.8	167.7
5/9/2025	4	60	10.6		137		9		48		81		7			13		310		168.7	
5/9/2025	5	60	10.7		140		12		51		76		5			13		310		168.2	
5/9/2025	6	60	10.6		138		19		79		76		6			13		310		168.1	
5/9/2025	7	60	10.5		139		30		95		68		6	6		13	13	310	310	168.1	168.3
5/9/2025	8	60	10.5		140		7		41		83		5			13		310		167.3	
5/9/2025	9	60	10.4	IBCMT	136	IBCMT	3	IBCMT	44		94	IBCMT	5	IBCMT		13		309		166.5	
5/9/2025	10	60	10.3		137		22		75		71		5			13		310		167.5	
5/9/2025	11	60	10.2		139		59		132		55		4	5		12		310	310	167.9	167.3
5/9/2025	12	60	10.6		141		32		94		66		3			13		310		168.7	
5/9/2025	13	60	10.0		139		9		67		86		4			12		310		164.6	
5/9/2025	14	60	10.3		137		22		73		71		3			13		310		167.6	
5/9/2025	15	60	10.1		142		15		71		79		4	3		12	13	310	310	168.4	167.3
5/9/2025	16	60	10.3		139		18		64		72		3			12		310		168.7	
5/9/2025	17	60	9.9		138		18		80		77		11			13		310		168.9	
5/9/2025	18	60	10.1		137		18		69		74		4			13		310		168.0	
5/9/2025	19	60	10.4		140		9		61		85		4	6		13		310	310	168.0	168.4
5/9/2025	20	60	10.4		138		7		65		90		4			13		309		168.6	
5/9/2025	21	60	10.5		141		24		75		68		3			13		310		168.5	
5/9/2025	22	60	10.3		124		11		66		83		4			13		310		165.9	
5/9/2025	23	60	10.4		124		13		63		79		3	4		13	13	310	310	168.3	167.8

Average: Geometric Mean Average:	138	15	77	OR	see above	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 09-May-2025

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

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Date 09-May-2025

Plant Wheelabrator North Andover  
Unit Unit 2  
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	2	2	2	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	2	2	2	2
3	2	2	2	2	2	2	2	2	2	2	2
4	2	2	2	2	2	2	2	2	2	2	2
5	2	2	2	2	2	2	2	2	2	2	2
6	2	IC	7	IC	2	2	2	2	2	2	3
7	2	2	2	2	2	2	2	2	2	2	2
8	2	2	2	2	2	2	2	2	2	2	2
9	2	2	2	2	2	2	2	2	2	2	2
10	2	2	2	2	2	2	2	2	2	2	2
11	2	2	2	2	2	2	2	2	2	2	2
12	2	2	2	2	2	2	2	2	2	2	2
13	2	2	2	2	2	2	2	2	2	2	2
14	2	2	2	2	2	2	2	2	2	2	2
15	2	2	2	2	2	2	2	2	2	2	2
16	2	2	2	2	2	2	2	2	2	2	2
17	2	2	2	2	2	2	2	2	2	2	2
18	2	2	2	2	2	2	2	2	2	2	2
19	2	2	2	2	2	2	2	2	2	2	2
20	2	2	2	2	2	2	2	2	2	2	2
21	2	2	2	2	2	2	2	2	2	2	2
22	2	2	2	2	2	2	2	2	2	2	2
23	2	2	2	2	2	2	2	2	2	2	2

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