



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



Date 5/16/25

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.
5/16/2025	0	60	10.7		141		18		40		54		0			11		309		169.3	
5/16/2025	1	60	10.8		140		3		49		95		0			16		309		168.7	
5/16/2025	2	60	10.8		140		14		64		78		0			14		309		168.1	
5/16/2025	3	60	10.8		140		22		54		59		0	0		14		310	309	167.2	168.3
5/16/2025	4	60	10.6		146		20		51		60		1			14		310		166.8	
5/16/2025	5	60	10.7		138		16		47		66		1			13		309		167.3	
5/16/2025	6	60	10.8		139		19		37		49		0			12		309		168.8	
5/16/2025	7	60	10.7		144		19		37		50		1	1		13	13	310	309	167.3	167.5
5/16/2025	8	60	10.8		140		20		37		45		1			13		309		166.0	
5/16/2025	9	60	10.8		142		24		44		45		1			13		309		168.6	
5/16/2025	10	60	10.9		140		20		52		61		1			12		310		167.6	
5/16/2025	11	60	10.7		143		24		41		42		1	1		12		310	309	166.3	167.1
5/16/2025	12	60	10.4		140		19		35		44		2			13		310		168.5	
5/16/2025	13	60	10.6		140		16		39		58		2			13		309		166.2	
5/16/2025	14	60	10.6		149		17		42		60		2			6		310		167.4	
5/16/2025	15	60	10.5		141		20		51		61		2	2		14	12	310	310	167.8	167.5
5/16/2025	16	60	10.3		141		16		51		68		2			21		309		167.5	
5/16/2025	17	60	10.3		141		21		46		55		2			20		310		166.8	
5/16/2025	18	60	10.8		140		15		44		65		1			19		308		167.8	
5/16/2025	19	60	10.6		141		10		42		77		3	2		17		309	309	167.9	167.5
5/16/2025	20	60	10.5		141		14		45		69		1			16		310		167.0	
5/16/2025	21	60	10.7		139		16		56		71		1			15		309		168.5	
5/16/2025	22	60	10.7		142		15		45		66		0			14		309		168.4	
5/16/2025	23	60	10.8		140		15		60		76		0	1		14	17	309	309	167.2	167.8

Average:  
Geometric Mean Average:

Limit:

141	16
≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean

OR

64
≥ 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



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



Date 5/16/25

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.
5/16/2025	0	60	10.2		130		14		71		80		25			12		310		162.0	
5/16/2025	1	60	10.2		136		3		74		97		6			15		310		164.7	
5/16/2025	2	60	10.0		135		16		86		81		11			13		310		167.5	
5/16/2025	3	60	10.2		138		16		87		81		4	11		13		310	310	163.7	164.5
5/16/2025	4	60	10.1		144		12		83		85		49			13		310		166.7	
5/16/2025	5	60	10.3		135		14		72		80		11			13		310		167.0	
5/16/2025	6	60	10.1		131		7		56		87		4			13		310		167.5	
5/16/2025	7	60	10.0		134		3		46		94		9	18		12	13	310	310	168.0	167.3
5/16/2025	8	60	10.2		137		8		42		82		4			13		310		168.1	
5/16/2025	9	60	10.1		139		22		67		67		8			12		311		168.1	
5/16/2025	10	60	9.9		137		12		58		79		4			13		310		167.4	
5/16/2025	11	60	9.7		140		14		50		73		5	5		13		310	310	167.4	167.7
5/16/2025	12	60	9.5		139		1		42		99		8			13		309		167.8	
5/16/2025	13	60	9.3		133		3		76		96		170			13		310		165.0	
5/16/2025	14	60	11.1		141		1		44		98		4			7		310		163.1	
5/16/2025	15	60	10.9		141		13		57		77		4	46		23	13	310	310	165.9	165.5
5/16/2025	16	60	10.9		132		12		71		83		8			17		310		163.9	
5/16/2025	17	60	10.4		140		6		55		90		6			16		310		165.8	
5/16/2025	18	60	10.1		138		4		51		92		5			14		310		162.4	
5/16/2025	19	60	9.3		138		0		52		100		5	6		14		310	310	161.4	163.4
5/16/2025	20	60	9.1		140		1		61		98		3			13		310		165.1	
5/16/2025	21	60	9.7		132		21		69		69		3			12		310		168.8	
5/16/2025	22	60	9.6		137		11		64		83		4			13		310		166.9	
5/16/2025	23	60	9.6		138		13		61		80		3	4		13	14	310	310	166.1	166.7

Average: Geometric Mean Average:	137	5	<b>OR</b>	91	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 16-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	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	6	IC	2	2	2	2	2	2	2
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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 B - Bad                            M - Maintenance                      P - Purge                      E - Excluded                      \* - Shutdown



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



Date 16-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.

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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	6	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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