



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



Date 4/15/25

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.
4/15/2025	0	60	10.5		120		9		63		86		7			17		309		168.7	
4/15/2025	1	60	10.5		139		11		63		82		6			15		309		169.3	
4/15/2025	2	60	10.5		140		17		62		73		6			14		310		168.9	
4/15/2025	3	60	10.5		141		15		58		75		5	6		14		309	309	167.7	168.7
4/15/2025	4	60	10.6		141		14		53		74		6			12		310		167.9	
4/15/2025	5	60	10.5		141		11		51		78		7			16		310		168.7	
4/15/2025	6	60	10.5		142		12		53		77		7			20		310		168.7	
4/15/2025	7	60	10.8		134		25		89		71		5	6		21	16	308	309	171.2	169.1
4/15/2025	8	60	10.7		143		19		88		78		5			16		309		167.1	
4/15/2025	9	60	10.6		140		27		120		77		7			14		310		169.8	
4/15/2025	10	60	10.5		141		17		110		85		6			12		309		168.8	
4/15/2025	11	60	10.6		141		13		74		82		6	6		13		309	309	169.6	168.8
4/15/2025	12	60	10.6		141		9		66		86		7			15		310		167.7	
4/15/2025	13	60	10.7		139		12		64		81		6			13		309		167.9	
4/15/2025	14	60	10.6		143		27		126		79		7			17		310		167.6	
4/15/2025	15	60	10.5		140		13		80		83		6	6		8	14	309	309	168.6	167.9
4/15/2025	16	60	10.7		142		21		107		80		6			13		309		168.6	
4/15/2025	17	60	10.7		141		17		67		74		5			14		310		169.1	
4/15/2025	18	60	10.5		141		17		74		77		6			14		309		169.1	
4/15/2025	19	60	10.5		141		17		73		77		5	5		13		309	309	168.3	168.8
4/15/2025	20	60	10.6		140		19		82		77		5			13		309		168.8	
4/15/2025	21	60	10.6		140		16		64		76		4			13		309		168.0	
4/15/2025	22	60	10.6		141		13		63		79		5			13		310		166.2	
4/15/2025	23	60	10.5		141		3		50		95		4	5		13	13	309	309	167.9	167.7

<p><b>Average:</b></p> <p><b>Geometric Mean Average:</b></p> <p><b>Limit:</b></p>	<p><b>140</b></p> <p><b>≤ 150</b></p> <p><b>24-HR Block Avg.</b></p>	<p><b>14</b></p> <p><b>≤ 29</b></p> <p><b>24-HR Geometric Mean</b></p>	<p><b>OR</b></p>	<p><b>80</b></p> <p><b>≥ 80%</b></p> <p><b>Removal Efficiency</b></p>	<p>see above</p> <p><b>≤ 69 ppmc</b></p> <p><b>4-HR Block Average</b></p>	<p>see above</p> <p><b>≥ 12 lb/hr</b></p> <p><b>8-HR. Block Average</b></p>	<p>see above</p> <p><b>≤ 345 °F</b></p> <p><b>4-HR Block Average</b></p>	<p>see above</p> <p><b>≤ 173 klb/hr</b></p> <p><b>4-HR Block Average</b></p>
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**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 4/15/25

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.
4/15/2025	0	60	10.0		120		0		31		100		6			13		310		168.1	
4/15/2025	1	60	9.8		136		0		38		99		5			13		310		169.1	
4/15/2025	2	60	9.8		138		8		53		85		6			14		310		167.4	
4/15/2025	3	60	9.8		140		7		50		87		5	5		13		310	310	167.2	168.0
4/15/2025	4	60	9.9		141		3		44		93		6			13		310		168.0	
4/15/2025	5	60	9.9		138		3		41		92		6			13		310		166.4	
4/15/2025	6	60	10.1		141		3		30		90		7			13		310		168.2	
4/15/2025	7	60	10.0		139		3		32		91		6	6		13	13	310	310	168.7	167.8
4/15/2025	8	60	10.2		140		26		77		67		5			13		310		168.3	
4/15/2025	9	60	10.2		138		16		66		76		8			13		310		168.0	
4/15/2025	10	60	9.9		141		4		58		93		6			13		310		166.4	
4/15/2025	11	60	10.2		139		1		45		97		8	7		13		310	310	167.6	167.6
4/15/2025	12	60	10.2		139		0		42		100		6			13		309		168.6	
4/15/2025	13	60	10.0		142		0		37		100		5			13		310		168.6	
4/15/2025	14	60	10.2		141		1		37		98		5			12		310		168.0	
4/15/2025	15	60	9.9		138		0		34		99		5	5		14	13	311	310	168.1	168.3
4/15/2025	16	60	10.3		140		1		41		97		5			13		310		167.8	
4/15/2025	17	60	10.0		139		4		48		91		6			14		310		168.2	
4/15/2025	18	60	9.9		140		3		44		93		5			13		310		168.8	
4/15/2025	19	60	10.0		138		3		44		93		5	5		14		310	310	167.6	168.1
4/15/2025	20	60	9.9		141		11		55		79		5			14		310		169.0	
4/15/2025	21	60	10.0		141		3		42		93		5			13		310		169.1	
4/15/2025	22	60	9.8		138		5		35		87		72			13		310		165.9	
4/15/2025	23	60	9.7		140		1		42		97		5	22		13	13	310	310	168.4	168.1

Average:  
Geometric Mean Average:

Limit:

<b>139</b>	<b>2</b>
<b>≤ 150</b> 24-HR Block Avg.	<b>≤ 29</b> 24-HR Geometric Mean

OR

<b>96</b>
<b>≥ 80%</b> Removal Efficiency

see above
<b>≤ 69</b> ppmc 4-HR Block Average

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

see above
<b>≤ 345</b> °F 4-HR Block Average

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

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



Date 15-Apr-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	1	1	1	1	1	1
6	2	IC	5	IC	1	1	1	1	1	1	2
7	1	1	1	1	1	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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# WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 15-Apr-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	1	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	1	1	1	1	1	1	1
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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