



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



Date 8/4/25

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.
8/4/2025	0	60	10.5		140		14		42		67		1			13		315		166.0	
8/4/2025	1	60	10.5		140		13		42		69		0			13		314		163.7	
8/4/2025	2	60	10.3		140		13		54		76		1			13		315		167.0	
8/4/2025	3	60	10.2		143		12		46		74		0	0		13		314	314	167.7	166.1
8/4/2025	4	60	10.1		144		15		51		71		0			13		315		168.2	
8/4/2025	5	60	10.4		140		14		33		57		1			13		314		166.6	
8/4/2025	6	60	9.8		143		0		18		99		1			12		315		166.6	
8/4/2025	7	60	10.0		139		9		29		71		0	1		12	13	314	315	169.7	167.8
8/4/2025	8	60	10.4		141		2		24		93		1			14		315		166.1	
8/4/2025	9	60	10.3		140		4		32		89		1			14		314		168.9	
8/4/2025	10	60	10.1		141		3		23		88		1			13		314		166.3	
8/4/2025	11	60	10.3		142		5		22		77		0	1		13		314	314	167.2	167.1
8/4/2025	12	60	10.0		141		0		19		99		1			13		315		166.7	
8/4/2025	13	60	9.7		141		0		19		98		2			13		314		168.3	
8/4/2025	14	60	9.9		140		0		21		100		1			13		314		169.0	
8/4/2025	15	60	10.0		141		0		18		100		1	1		13	13	314	314	166.6	167.6
8/4/2025	16	60	10.2		140		3		37		91		2			13		313		166.5	
8/4/2025	17	60	10.2		139		1		32		98		1			13		314		167.5	
8/4/2025	18	60	10.4		143		4		35		87		1			13		315		167.9	
8/4/2025	19	60	10.4		141		3		31		91		0	1		13		314	314	167.2	167.3
8/4/2025	20	60	10.4		140		4		30		88		0			13		314		168.7	
8/4/2025	21	60	10.6		140		9		45		79		4			13		315		170.1	
8/4/2025	22	60	10.7		138		10		39		73		1			13		314		168.3	
8/4/2025	23	60	10.6		139		8		38		80		1	1		13	13	314	314	169.0	169.0

Average: Geometric Mean Average:	141	2	OR	93	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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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.
8/4/2025	0	60	10.0		139		4		45		90		3			13		315		168.5	
8/4/2025	1	60	10.2		141		6		51		88		3			13		315		166.7	
8/4/2025	2	60	10.0		138		28		85		67		4			13		315		168.6	
8/4/2025	3	60	10.1		139		1		54		99		3	3		13		315	315	167.4	167.8
8/4/2025	4	60	10.2		142		1		51		98		4			13		314		169.0	
8/4/2025	5	60	10.2		136		3		55		95		3			13		315		168.7	
8/4/2025	6	60	10.0		142		0		43		100		3			13		315		167.7	
8/4/2025	7	60	10.1		139		1		46		99		3	3		13	13	315	315	167.2	168.1
8/4/2025	8	60	10.1		140		0		35		100		3			13		315		169.2	
8/4/2025	9	60	10.4		132		5		57		90		34			13		315		165.8	
8/4/2025	10	60	10.0		134		13		58		77		22			13		315		165.1	
8/4/2025	11	60	9.6		141		2		37		96		4	16		13		316	315	168.0	167.0
8/4/2025	12	60	9.8		138		0		29		100		4			14		315		167.9	
8/4/2025	13	60	9.7		141		0		32		100		4			13		315		167.9	
8/4/2025	14	60	9.8		140		0		35		100		4			14		315		168.6	
8/4/2025	15	60	9.9		141		0		27		100		4	4		13	13	315	315	165.1	167.4
8/4/2025	16	60	10.1		141		0		36		100		4			14		315		164.1	
8/4/2025	17	60	9.9		138		0		26		100		4			13		315		168.1	
8/4/2025	18	60	9.9		139		0		36		100		4			13		315		168.1	
8/4/2025	19	60	10.0		138		0		28		100		4	4		14		315	315	168.9	167.3
8/4/2025	20	60	10.3		141		0		25		100		3			13		315		168.4	
8/4/2025	21	60	10.7		137		2		44		96		3			14		315		169.4	
8/4/2025	22	60	10.7		139		2		41		96		3			13		315		168.5	
8/4/2025	23	60	10.5		140		0		36		100		3	3		14	13	315	315	170.1	169.1

Average: Geometric Mean Average:	139	0	OR	100	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	≤ 173 4-HR Block Average	klb/hr

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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 04-Aug-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	1
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 04-Aug-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	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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