



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



Date 9/26/24

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.
9/26/2024	0	58	11.3		139		15		34		56		3			18		309		166.7	
9/26/2024	1	60	11.3		141		13		32		61		3			12		309		166.0	
9/26/2024	2	60	11.5		143		9		30		71		3			14		309		167.6	
9/26/2024	3	60	11.3		141		6		32		82		2	2		20		309	309	168.3	167.2
9/26/2024	4	60	11.6		142		17		36		54		3			20		309		167.7	
9/26/2024	5	60	11.6		143		30		47		36		3			13		309		168.4	
9/26/2024	6	60	11.6		139		16		40		60		3			14		312		167.3	
9/26/2024	7	60	12.0		142		18		51		65		3	3		10	15	311	310	167.2	167.7
9/26/2024	8	60	11.7		142		13		44		70		4			16		309		167.3	
9/26/2024	9	60	11.4		138		20		27		28		4			17		310		168.6	
9/26/2024	10	60	11.7		141		22		43		49		3			18		309		166.5	
9/26/2024	11	60	11.2		145		14		35		61		5	4		14		310	309	164.2	166.7
9/26/2024	12	60	10.7		140		18		39		54		4			8		310		168.5	
9/26/2024	13	60	11.2		138		19		44		56		6			17		309		167.1	
9/26/2024	14	60	10.9		141		22		51		56		5			14		309		165.0	
9/26/2024	15	60	10.8		141		9		38		76		6	5		16	15	308	309	161.9	165.6
9/26/2024	16	60	11.0		145		15		33		54		3			18		309		162.9	
9/26/2024	17	60	11.0		140		18		43		58		3			13		310		166.2	
9/26/2024	18	60	11.0		141		21		63		67		3			17		310		166.8	
9/26/2024	19	60	10.9		142		18		53		66		3	3		17		309	310	166.3	165.6
9/26/2024	20	60	11.1		140		19		50		62		3			20		309		166.4	
9/26/2024	21	60	11.2		141		21		44		52		2			21		310		167.1	
9/26/2024	22	60	11.2		140		23		51		54		2			19		309		166.3	
9/26/2024	23	55	11.1		142		20		38		48		3	2		15	17	310	309	167.0	166.7

Average: Geometric Mean Average:	141	16	OR	60	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 9/26/24

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.
9/26/2024	0	58	10.6		142		0		44		100		7			17		310		168.4	
9/26/2024	1	60	10.6		139		0		35		100		7			16		310		167.0	
9/26/2024	2	60	10.7		138		1		68		99		7			20		310		167.5	
9/26/2024	3	60	10.8		138		6		71		92		8	7		20		310	310	166.9	167.5
9/26/2024	4	60	10.8		142		0		51		99		6			22		310		166.9	
9/26/2024	5	60	10.8		140		2		39		95		5			19		310		168.4	
9/26/2024	6	60	10.8		140		2		37		94		5			10		310		167.6	
9/26/2024	7	60	10.9		139		1		30		95		6	5		17	18	310	310	168.2	167.8
9/26/2024	8	60	10.8		141		4		44		90		6			19		310		166.5	
9/26/2024	9	60	10.7		138		3		29		90		7			19		310		167.3	
9/26/2024	10	60	10.5		139		10		54		82		6			20		310		167.4	
9/26/2024	11	60	10.7		142		3		46		94		9	7		9		310	310	150.1	162.8
9/26/2024	12	60	10.2		140		22		121		82		7			8		310		163.1	
9/26/2024	13	60	10.3		140		19		99		81		6			16		310		167.4	
9/26/2024	14	60	10.4		141		14		68		79		6			11		310		167.8	
9/26/2024	15	60	10.5		140		1		40		97		7	6		15	15	310	310	163.2	165.4
9/26/2024	16	60	10.4		140		2		48		96		19			11		310		159.8	
9/26/2024	17	60	10.2		140		6		53		89		5			18		310		165.7	
9/26/2024	18	60	10.3		139		13		69		81		6			13		310		166.2	
9/26/2024	19	60	10.6		140		16		67		76		5	9		20		310	310	167.4	164.8
9/26/2024	20	60	10.7		140		18		73		75		5			13		310		167.6	
9/26/2024	21	60	10.8		138		19		64		70		4			14		310		168.2	
9/26/2024	22	60	10.5		140		16		57		72		4			13		310		167.5	
9/26/2024	23	60	10.6		140		16		63		75		5	4		11	14	310	310	167.7	167.7

Average: Geometric Mean Average:	140	4	OR	94	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 26-Sep-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	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	2	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	1	1	2	2	2
18	2		2		2	2	2	2	2	2	2
19	2		2	1	2	2	2	2	2	2	1
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	I	2	2	2	2	2

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Date 26-Sep-2024

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	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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