



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



Date 8/3/24

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.
8/3/2024	0	58	10.0		141		25		75		67		1			16		310		170.1	
8/3/2024	1	60	10.5		138		22		59		63		1			16		308		165.3	
8/3/2024	2	60	10.4		143		19		51		63		1			16		309		164.1	
8/3/2024	3	60	10.4		141		22		40		44		1	1		16		310	309	166.4	166.5
8/3/2024	4	60	10.3		146		19		53		64		2			16		309		165.5	
8/3/2024	5	60	10.3		138		24		49		52		1			15		310		169.2	
8/3/2024	6	60	10.4		142		24		55		57		1			15		310		169.4	
8/3/2024	7	60	11.2		139		22		67		67		3	2		15	16	308	309	159.7	166.0
8/3/2024	8	60	10.5		142		17		43		60		2			15		311		159.8	
8/3/2024	9	60	10.5		140		24		59		60		3			15		310		166.5	
8/3/2024	10	60	10.5		141		22		65		65		2			16		309		166.8	
8/3/2024	11	60	10.5		141		22		48		55		2	3		11		310	310	166.6	164.9
8/3/2024	12	60	10.6		141		23		54		56		2			15		309		166.0	
8/3/2024	13	60	10.4		143		23		52		55		2			15		310		167.6	
8/3/2024	14	60	10.4		139		28		46		39		2			15		313		167.8	
8/3/2024	15	60	10.3		144		21		37		44		1	2		14	14	311	311	168.9	167.6
8/3/2024	16	60	10.5		138		20		45		54		1			14		308		165.5	
8/3/2024	17	60	10.5		141		18		39		54		1			14		311		165.4	
8/3/2024	18	60	10.4		142		28		49		44		1			14		313		167.9	
8/3/2024	19	60	10.5		140		16		35		55		1	1		14		307	310	166.4	166.3
8/3/2024	20	60	10.5		139		25		36		28		1			14		310		167.0	
8/3/2024	21	60	10.5		144		28		44		36		1			14		310		166.4	
8/3/2024	22	60	10.5		140		63		50		0		1			14		329		167.5	
8/3/2024	23	60	10.7		140		96		54		0		1	1		14	14	323	318	169.0	167.5

Average: Geometric Mean Average:	141	25	OR	50	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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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.
8/3/2024	0	58	10.5		140		22		123		83		6			14		310		168.2	
8/3/2024	1	60	10.5		139		3		67		95		6			14		310		166.9	
8/3/2024	2	60	10.4		141		0		44		99		5			14		310		168.5	
8/3/2024	3	60	10.6		138		1		50		99		5	6		14		310	310	167.0	167.6
8/3/2024	4	60	10.6		141		0		47		100		6			14		310		167.6	
8/3/2024	5	60	10.6		139		0		42		100		5			14		310		167.2	
8/3/2024	6	60	10.5		141		0		45		99		9			14		310		169.0	
8/3/2024	7	60	10.5		139		8		83		90		6	6		14	14	310	310	168.5	168.1
8/3/2024	8	60	10.5		138		0		48		100		5			14		310		166.2	
8/3/2024	9	60	10.4		139		0		60		99		6			14		310		168.9	
8/3/2024	10	60	10.4		139		5		80		94		6			14		310		167.1	
8/3/2024	11	60	10.4		140		0		57		100		6	6		14		310	310	166.9	167.3
8/3/2024	12	60	10.4		140		0		68		100		6			14		310		168.8	
8/3/2024	13	60	10.5		139		4		70		94		6			14		310		167.6	
8/3/2024	14	60	10.4		140		4		64		93		5			14		310		167.7	
8/3/2024	15	60	10.4		139		0		43		100		5	6		14	14	310	310	166.0	167.5
8/3/2024	16	60	10.1		142		0		49		100		5			14		310		168.7	
8/3/2024	17	60	10.5		140		0		49		100		5			14		310		166.6	
8/3/2024	18	60	10.4		138		2		58		97		4			14		310		166.8	
8/3/2024	19	60	10.5		139		1		49		98		5	5		14		310	310	167.9	167.5
8/3/2024	20	60	10.4		139		0		44		100		5			14		310		166.4	
8/3/2024	21	60	10.4		141		0		34		100		5			14		310		167.2	
8/3/2024	22	60	10.4		138		0		39		100		22			14		310		165.5	
8/3/2024	23	60	10.4		141		0		48		100		5	9		14	14	309	310	169.0	167.0

Average: Geometric Mean Average:	140	0	OR	100	see above	see above	see above	see above
Limit:	≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean	OR	≥ 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 03-Aug-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	1	I	I	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
3	1		1	1	1	1	1	1	1	1	1
4	1		1	1	1	1	1	1	1	1	1
5	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
8	1		1	1	1	1	1	1	1	1	1
9	1		1	1	1	1	1	1	1	1	1
10	1		1	1	1	1	1	1	1	1	1
11	1		1	1	1	1	1	1	1	1	1
12	1		1	1	1	1	1	1	1	1	1
13	1		1	1	1	1	1	1	1	1	1
14	1		1	1	1	1	1	1	1	1	1
15	1		1	1	1	1	1	1	1	1	1
16	1		1	1	1	1	1	1	1	1	1
17	1		1	1	1	1	1	1	1	1	1
18	1		1	1	1	1	1	1	1	1	1
19	1		1	1	1	1	1	1	1	1	1
20	1		1	1	1	1	1	1	1	1	1
21	1		1	1	1	1	1	1	1	1	1
22	1		1	1	1	1	1	1	1	1	1
23	1		1	1	1	1	1	1	1	1	1

Status Flags

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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 03-Aug-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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