



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



Date 9/17/24

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.
9/17/2024	0	58	11.2		140		22		65		66		0			13		309		166.0	
9/17/2024	1	60	11.3		141		17		54		69		0			13		308		167.0	
9/17/2024	2	60	11.4		140		11		55		80		0			13		309		168.6	
9/17/2024	3	60	11.6		140		16		49		67		0			13		309	309	166.6	167.0
9/17/2024	4	60	11.3		143		14		54		73		0			13		310		168.5	
9/17/2024	5	60	11.7		139		17		60		73		0			13		310		167.3	
9/17/2024	6	60	11.8		140		8		34		76		1			13		309		166.6	
9/17/2024	7	60	11.6		140		14		33		57		0			13	13	309	309	167.3	167.4
9/17/2024	8	60	11.5		142		8		36		77		0			13		309		166.7	
9/17/2024	9	60	11.6		142		10		50		80		1			13		309		166.7	
9/17/2024	10	60	11.7		139		13		42		69		0			13		309		167.1	
9/17/2024	11	60	11.6		140		16		61		73		0			13		309	309	166.2	166.7
9/17/2024	12	60	11.7		142		7		32		79		0			13		310		166.1	
9/17/2024	13	60	11.7		153		10		17		43		0			13		310		166.8	
9/17/2024	14	60	11.6		136		1		22		94		1			14		310		165.3	
9/17/2024	15	60	11.4		144		2		28		92		0			13	13	309	310	167.6	166.5
9/17/2024	16	60	11.3		142		4		40		90		0			14		308		169.4	
9/17/2024	17	60	11.2		141		5		42		88		0			13		310		166.6	
9/17/2024	18	60	11.5		142		15		57		74		0			13		310		169.0	
9/17/2024	19	60	11.4		141		4		41		90		0			13		310	309	168.6	168.4
9/17/2024	20	60	11.3		139		1		38		97		0			13		309		167.8	
9/17/2024	21	60	11.4		144		8		53		85		1			13		310		166.3	
9/17/2024	22	60	11.2		139		18		69		74		0			13		309		169.3	
9/17/2024	23	60	11.3		142		16		76		79		0			13	13	309	309	166.9	167.6

Average: Geometric Mean Average:	141	9	OR	80	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 9/17/24

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.
9/17/2024	0	58	10.5		138		13		66		81		4			14		310		167.6	
9/17/2024	1	60	10.4		141		5		49		90		5			14		311		167.5	
9/17/2024	2	60	10.4		140		1		48		98		5			14		310		168.0	
9/17/2024	3	60	10.5		139		1		49		99		5	5		14		310	310	168.2	167.8
9/17/2024	4	60	10.8		141		4		52		93		5			14		310		166.1	
9/17/2024	5	60	10.6		140		14		58		75		5			14		310		168.9	
9/17/2024	6	60	10.6		139		1		41		97		6			13		310		167.3	
9/17/2024	7	60	10.7		138		0		40		100		6	5		14	14	310	310	167.4	167.4
9/17/2024	8	60	10.7		141		6		60		90		6			14		310		165.4	
9/17/2024	9	60	10.6		139		3		50		95		7			14		310		167.4	
9/17/2024	10	60	10.5		141		8		56		86		6			14		311		168.9	
9/17/2024	11	60	10.6		137		11		60		81		5	6		14		309	310	168.0	167.4
9/17/2024	12	60	10.6		141		4		48		91		6			14		310		167.9	
9/17/2024	13	60	10.7		135		4		50		92		6			13		310		167.6	
9/17/2024	14	60	10.4		140		0		46		99		6			14		310		166.7	
9/17/2024	15	60	10.5		139		0		42		100		7	6		14	14	310	310	168.6	167.7
9/17/2024	16	60	10.4		139		1		46		99		5			14		310		168.7	
9/17/2024	17	60	10.5		140		3		55		94		5			14		310		168.4	
9/17/2024	18	60	10.6		139		9		70		88		6			14		310		168.0	
9/17/2024	19	60	10.6		139		0		45		100		5	5		14		310	310	165.9	167.8
9/17/2024	20	60	10.6		140		0		52		100		5			14		310		168.0	
9/17/2024	21	60	10.9		138		0		41		100		7			14		309		162.8	
9/17/2024	22	60	10.5		141		6		77		93		5			14		311		167.5	
9/17/2024	23	60	10.4		140		1		51		99		5	5		14	14	310	310	167.4	166.4

Average: Geometric Mean Average:	139	1	OR	97	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 17-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	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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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 17-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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