



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



Date 5/29/24

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.
5/29/2024	0	60	10.2		139		15		38		60		0			15		309		167.7	
5/29/2024	1	60	10.5		142		22		54		60		0			10		310		164.2	
5/29/2024	2	60	10.4		140		30		105		71		0			18		309		167.7	
5/29/2024	3	60	10.4		141		23		63		64		0	0		20		309	309	165.9	166.4
5/29/2024	4	60	10.2		146		21		50		57		0			15		310		166.2	
5/29/2024	5	60	10.3		139		18		42		56		0			14		309		165.3	
5/29/2024	6	60	10.3		141		21		46		54		0			14		309		166.6	
5/29/2024	7	60	10.3		140		23		62		63		0	0		13	15	309	309	167.5	166.4
5/29/2024	8	60	10.4		141		22		62		64		0			13		309		165.7	
5/29/2024	9	60	10.4		142		17		43		61		0			13		310		164.3	
5/29/2024	10	60	10.4		141		19		41		54		3			13		309		168.0	
5/29/2024	11	60	10.4		141		19		42	IBCM	54	IBCM	0	1		13		310	309	166.9	166.2
5/29/2024	12	60	10.4		141		22		46		53		0			13		309		168.0	
5/29/2024	13	60	13.5	IBCM	37	IBCM	123	IBCM	51		0	IBCM	615	IBCM		12		309		169.3	
5/29/2024	14	60	10.5	IBCM	90	IBCM	31	IBCM	39		22	IBCM	1	IBCM		13		310		166.6	
5/29/2024	15	60	10.3		142		17		58		70		1			21	14	309	309	165.7	167.4
5/29/2024	16	60	10.8		141		21		65		68		0			18		309		167.8	
5/29/2024	17	60	10.4		141		20		58		66		0			16		310		165.7	
5/29/2024	18	60	10.2		142		19		56		66		0			15		310		167.7	
5/29/2024	19	60	10.0		141		21		51		59		0	0		18		309	310	168.0	167.3
5/29/2024	20	60	10.1		142		19		52		64		0			16		310		166.7	
5/29/2024	21	60	9.9		142		18		41		56		0			13		310		166.4	
5/29/2024	22	60	10.0		139		19		41		54		0			20		309		168.1	
5/29/2024	23	60	10.1		140		16		54		71		0	0		12	16	309	309	164.7	166.5

Average: Geometric Mean Average:	141	20	<b>OR</b>	62	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 5/29/24

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.
5/29/2024	0	60	9.9		138		5		26		81		4			14		310		167.2	
5/29/2024	1	60	10.0		141		12		35		65		4			14		310		164.5	
5/29/2024	2	60	9.9		139		18		43		58		4			13		310		168.0	
5/29/2024	3	60	10.0		139		10		29		67		4	4		13		310	310	166.9	166.6
5/29/2024	4	60	9.9		142		7		26		72		6			14		310		166.6	
5/29/2024	5	60	10.1		141		10		25		59		6			14		310		167.0	
5/29/2024	6	60	10.2		142		21		33		36		6			15		310		167.8	
5/29/2024	7	60	10.1		136		12		23		49		6	6		15	14	310	310	166.9	167.1
5/29/2024	8	60	10.1		139		9		19		54		7			14		310		166.4	
5/29/2024	9	60	10.0		140		8		20		58		7			14		310		168.2	
5/29/2024	10	60	9.8		141		4		19		79		9			14		310		166.8	
5/29/2024	11	60	9.9		139		2		18	IBCM	90	IBCM	7	8		14		310	310	167.1	167.1
5/29/2024	12	60	9.7		140		8		21		61		7			14		310		168.3	
5/29/2024	13	60	8.4	IBCM	118	IBCM	70	IBCM	20		0	IBCM	378	IBCM		13		310		167.4	
5/29/2024	14	60	15.7	IBCM	259	IBCM	32	IBCM	26		0	IBCM	12	IBCM		13		310		167.6	
5/29/2024	15	60	9.7	IBCM	97	IBCM	26	IBCM	29		13	IBCM	189	IBCM	7	15	14	310	310	166.2	167.4
5/29/2024	16	60	11.3	IBCM	169	IBCM	5	IBCM	34		87	IBCM	10	IBCM		15		310		167.1	
5/29/2024	17	60	11.6		149		21		45		52		7			13		310		166.9	
5/29/2024	18	60	11.4		150		24		56		57		9			12		310		167.6	
5/29/2024	19	60	11.5		148		16		32		49		6	8		14		310	310	167.8	167.3
5/29/2024	20	60	11.6		145		28		45		37		5			14		310		166.8	
5/29/2024	21	60	11.6		148		20		41		52		6			14		310		167.0	
5/29/2024	22	60	11.7		148		16		44		64		5			14		310		167.3	
5/29/2024	23	60	11.7		145		18		53		66		5	5		14	14	310	310	166.8	167.0

Average: Geometric Mean Average:	143	11	<b>OR</b>	61	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 29-May-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	0	0	0	0	0	0	0	0	0	0	0		
1	0	0	0	0	0	0	0	0	0	0	0		
2	0	0	0	0	0	0	0	0	0	0	0		
3	0	0	0	0	0	0	0	0	0	0	0		
4	0	0	0	0	0	0	0	0	0	0	0		
5	0	0	0	0	0	0	0	0	0	0	0		
6	0	IC	4	IC	0	0	0	0	0	0	0		
7	0	0	0	0	0	0	0	0	0	0	0		
8	0	0	0	0	0	0	0	0	0	0	0		
9	0	0	0	0	0	0	0	0	0	0	0		
10	0	0	0	0	0	0	0	0	0	IM	0		
11	0	IM	7	IM	19	IM	8	IM	18	IM	8	IM	12
12	16	IM	0	IM	20	IM	2	IM	0	IM	0	0	4
13	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0

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Date 29-May-2024

Plant Wheelabrator North Andover  
Unit Unit 2  
Source Outlet

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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	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 IM	2
13	7 IM	6 IM	19 IM	6 IM	19 IM	6 IM	18 IM	7 IM	18 IM	6 IM	12
14	18 IM	1 IM	15 IM	9 IM	1 IM	23 IM	2 IM	1 IM	1 IM	23 IM	10
15	1	1	1	1	1	1	1	1	1	1	1
16	2	1	2	1	1	1	1	1	1	1	1
17	1	2	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	2	2	1	1	1	2	1
20	1	2	2	2	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1
22	2	1	2	2	2	2	2	1	2	2	1
23	2	2	2	2	2	2	2	2	1	2	1

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