



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



Date 6/30/24

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.
6/30/2024	0	58	10.6		139		19		61		69		0			19		308		172.0	
6/30/2024	1	60	10.6		142		19		57		67		0			15		310		166.5	
6/30/2024	2	60	10.6		140		22		63		65		0			15		309		168.0	
6/30/2024	3	60	10.5		142		23		69		66		0	0		14		310	309	166.8	168.3
6/30/2024	4	60	10.5		141		26		76		65		0			14		310		166.4	
6/30/2024	5	60	10.1		138		20		76		74		0			14		310		167.3	
6/30/2024	6	60	10.5		142		20		57		65		0			14		310		167.4	
6/30/2024	7	60	10.6		140		16		53		69		0	0		13	15	310	310	167.1	167.0
6/30/2024	8	60	10.6		142		17		52		67		0			14		309		166.3	
6/30/2024	9	60	10.7		143		17		62		73		0			13		310		171.5	
6/30/2024	10	60	11.0		136		23		86		73		0			14		308		165.1	
6/30/2024	11	60	10.8		144		19		64		70		0	0		13		310	309	167.4	167.6
6/30/2024	12	60	10.9		141		22		69		68		0			13		309		168.0	
6/30/2024	13	60	11.3		137		19		68		72		0			13		308		160.2	
6/30/2024	14	60	10.9		143		20		76		73		0			13		311		164.6	
6/30/2024	15	60	10.9		139		19		72		73		0	0		13	13	309	309	165.8	164.6
6/30/2024	16	60	10.6		145		10		56		82		63			13		311		163.4	
6/30/2024	17	60	10.8		137		12		62		81		0			14		307		166.8	
6/30/2024	18	60	10.6		143		17		63		72		0			13		310		168.2	
6/30/2024	19	60	10.8		140		18		64		72		0	16		13		309	309	166.6	166.2
6/30/2024	20	60	10.8		141		24		82		70		0			13		309		166.2	
6/30/2024	21	60	10.7		141		12		55		79		0			13		310		167.5	
6/30/2024	22	60	10.6		141		14		53		74		0			13		310		168.9	
6/30/2024	23	60	10.7		141		18		57		67		0	0		13	13	309	309	167.0	167.4

Average: Geometric Mean Average:	141	18	<b>OR</b>	71	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 6/30/24

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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.
6/30/2024	0	58	11.5		110		2		15		87		36			13		293		75.6	
6/30/2024	1	60	8.9		136		21		64		68		6			13		308		170.8	
6/30/2024	2	60	9.3		138		26		74		65		7			14		310		168.4	
6/30/2024	3	60	9.3		136		28		81		65		9	14		13		310	305	166.5	145.3
6/30/2024	4	60	9.3		139		24		72		67		7			13		310		167.1	
6/30/2024	5	60	9.4		140		23		57		59		5			14		310		167.3	
6/30/2024	6	60	9.3		140		24		43		43		5			14		310		170.0	
6/30/2024	7	60	9.5		139		23		55		59		5	5		14	13	310	310	164.0	167.1
6/30/2024	8	60	9.6		140		24		54		55		5			14		310		167.8	
6/30/2024	9	60	9.4		137		19		59		67		5			13		310		166.1	
6/30/2024	10	60	9.0		140		25		94		73		4			14		310		163.7	
6/30/2024	11	60	8.8		139		23		80		71		4	5		13		310	310	166.7	166.1
6/30/2024	12	60	9.5		132		17		54		70		5			13		310		153.6	
6/30/2024	13	60	9.1		140		20		58		66		4			14		310		164.5	
6/30/2024	14	60	9.0		139		25		70		64		4			14		310		165.6	
6/30/2024	15	60	8.8		141		19		54		64		5	5		14	14	311	310	165.7	162.3
6/30/2024	16	60	8.9		139		23		51		54		4			14		310		166.9	
6/30/2024	17	60	9.0		140		21		52		59		4			13		310		166.1	
6/30/2024	18	60	9.2		138		19		66		72		4			13		309		166.1	
6/30/2024	19	60	9.4		139		25		83		70		4	4		14		310	310	165.4	166.1
6/30/2024	20	60	9.0		139		27		87		69		4			14		310		167.2	
6/30/2024	21	60	9.1		138		27		81		67		4			14		310		166.8	
6/30/2024	22	60	8.8		139		25		56		55		4			14		310		167.9	
6/30/2024	23	60	9.3		142		21		51		60		4	4		13	14	310	310	167.0	167.3

Average: Geometric Mean Average:	<b>137</b>	<b>21</b>	<b>OR</b>	<b>66</b>	see above	see above	see above	see above
Limit:	<b>≤ 150</b> 24-HR Block Avg.	<b>≤ 29</b> 24-HR Geometric Mean		<b>≥ 80%</b> Removal Efficiency	<b>≤ 69</b> ppmc 4-HR Block Average	<b>≥ 12</b> lb/hr 8-HR. Block Average	<b>≤ 345</b> °F 4-HR Block Average	<b>≤ 173</b> klb/hr 4-HR Block Average

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# WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 30-Jun-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	1	I	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
3	1		1		1	1	1	1	1	1	1
4	1		1		1	1	1	1	1	1	1
5	1		1		1	1	1	1	1	1	1
6	2	IC	5	IC	1	1	1	1	1	1	2
7	1		1		1	1	1	1	1	1	1
8	1		1		1	1	1	1	1	1	1
9	1		1		1	1	1	1	1	1	1
10	1		1		1	1	1	1	1	1	1
11	1		1		1	1	1	1	1	1	1
12	1		1		1	1	1	1	1	1	1
13	1		1		1	1	1	1	1	1	1
14	1		1		1	1	1	1	1	1	1
15	1		1		1	1	1	1	1	1	1
16	1		1		1	1	1	1	1	1	1
17	1		1		1	1	1	1	1	1	1
18	1		1		1	1	1	1	1	1	1
19	1		1		1	1	1	1	1	1	1
20	1		1		1	1	1	1	1	1	1
21	1		1		1	1	1	1	1	1	1
22	1		1		1	1	1	1	1	1	1
23	1		1		1	1	1	1	1	1	1

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Date 30-Jun-2024

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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	1	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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