



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



Date 6/1/24

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.
6/1/2024	0	60	10.5		141		19		54		65		0			19		309		167.5	
6/1/2024	1	60	10.7		140		19		59		68		0			18		309		166.8	
6/1/2024	2	60	10.3		143		19		58		67		0			19		310		166.6	
6/1/2024	3	60	10.3		140		21		66		68		0	0		17		309	309	168.5	167.3
6/1/2024	4	60	10.2		139		20		58		66		0			15		309		165.7	
6/1/2024	5	60	10.2		142		20		78		74		0			15		309		166.2	
6/1/2024	6	60	10.1		143		11		46		77		0			15		310		160.2	
6/1/2024	7	60	10.1		138		19		42		55		0	0		15	17	309	309	163.8	164.0
6/1/2024	8	60	10.2		143		17		48		64		0			14		310		169.1	
6/1/2024	9	60	10.4		141		22		71		70		0			14		309		167.5	
6/1/2024	10	60	10.5		140		18		52		65		1			14		310		163.7	
6/1/2024	11	60	10.4		144		21		58		64		1	0		14		309	309	164.6	166.2
6/1/2024	12	60	10.2		140		21		45		55		1			14		309		164.7	
6/1/2024	13	60	10.1		139		20		38		47		0			13		310		164.4	
6/1/2024	14	60	10.2		143		18		44		60		0			14		310		165.6	
6/1/2024	15	60	10.2		141		21		38		45		0	0		14	14	309	309	165.0	164.9
6/1/2024	16	60	9.9		144		20		49		59		8			13		310		165.5	
6/1/2024	17	60	10.5		137		17		43		60		0			13		307		167.0	
6/1/2024	18	60	10.2		143		21		48		56		0			13		310		167.0	
6/1/2024	19	60	10.5		140		21		48		57		1	2		13		310	309	162.1	165.4
6/1/2024	20	60	10.5		135		19		51		62		2			13		308		160.1	
6/1/2024	21	60	10.1		150		27		59		55		48			13		313		165.2	
6/1/2024	22	60	10.1		139		23		51		55		0			13		309		168.3	
6/1/2024	23	60	10.0		141		19		47		61		0	12		14	13	309	310	164.1	164.4

Average: Geometric Mean Average:	141	19	OR	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 | C - Calibration | F - Offline | T - Out of Control | ^ - Startup |
| B - Bad | M - Maintenance | P - Purge | E - Excluded | * - Shutdown |



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Date 6/1/24

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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.
6/1/2024	0	60	10.0		137		20		46		57		3			15		310		166.3	
6/1/2024	1	60	9.8		140		19		45		57		3			15		310		167.8	
6/1/2024	2	60	9.8		140		15		40		64		3			16		310		167.7	
6/1/2024	3	60	9.8		140		16		43		62		3	3		18		310	310	166.4	167.1
6/1/2024	4	60	9.8		143		22		47		53		5			16		310		167.7	
6/1/2024	5	60	9.7		139		29		75		61		5			16		310		168.1	
6/1/2024	6	60	9.5		143		18		52		66		5			15		310		160.6	
6/1/2024	7	60	9.1		136		19		46		59		5	5		15	16	310	310	165.4	165.4
6/1/2024	8	60	9.5		141		24		53		54		4			14		310		167.6	
6/1/2024	9	60	9.5		139		22		50		56		5			14		310		167.6	
6/1/2024	10	60	9.4		137		16		40		60		5			14		310		167.8	
6/1/2024	11	60	9.2		142		9		37		74		5	5		14		310	310	163.3	166.6
6/1/2024	12	60	8.4		137		19		50		61		21			14		310		166.2	
6/1/2024	13	60	8.7		142		19		36		48		4			14		310		166.7	
6/1/2024	14	60	8.9		139		18		37		51		5			14		310		165.9	
6/1/2024	15	60	8.7		141		22		47		53		5	9		14	14	310	310	168.1	166.7
6/1/2024	16	60	9.3		136		21		42		50		7			13		310		162.8	
6/1/2024	17	60	9.5		138		21		37		43		5			13		310		165.6	
6/1/2024	18	60	9.3		139		18		34		47		5			13		310		167.0	
6/1/2024	19	60	9.3		141		20		37		46		5	5		14		310	310	168.0	165.8
6/1/2024	20	60	9.6		140		24		52		53		5			13		310		168.5	
6/1/2024	21	60	9.4		140		23		41		44		5			14		310		166.7	
6/1/2024	22	60	9.4		139		24		39		38		5			14		310		168.1	
6/1/2024	23	60	9.4		139		21		41		48		4	5		14	14	310	310	166.3	167.4

Average:	140	20	55			
Geometric Mean Average:					see above	see above
Limit:	≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean	≥ 80% Removal Efficiency	OR	≤ 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 01-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	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	0	0
11	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0

Status Flags

I - Invalid C - Calibration F - Offline T - Out of Control ^ - Startup
 B - Bad M - Maintenance P - Purge E - Excluded * - Shutdown



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Date 01-Jun-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	1	1	1	1	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	1
3	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1
6	1	IC	6	IC	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	1	2	2	1	1	2	1
10	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1
12	2	1	1	2	2	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	2	2	2	2	1	1	2	1
19	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1

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