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

Wheelabrator TECHNOLOGIES

WIN WASTE INNOVATIONS
PERFORMANCE FOR THE PLANET

Date 10/3/25

NOTE: Emission & Process results may change after Startup, Shutdown, Malfunction data validation

Plant Wheelabrator North Andover
Unit Unit 1
Source Outlet

			O2		NOx		SO2						CO				Carbon Feed		FF Temp (deg F)		Steam KLbs/Hr	
Date	Hour	On-Line Minutes	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.	4 Hr Block
10/3/2025	0	60	10.7		140		0		29		100		40				13		317		168.6	
10/3/2025	1	60	11.2		139		1		28		98		1				13		317		164.6	
10/3/2025	2	60	11.0		139		0		18		100		1				12		318		163.9	
10/3/2025	3	60	10.9		142		0		21		100		0		10		13		317	317	168.2	166.3
10/3/2025	4	60	10.6		146		0		13		100		0				13		318		166.8	
10/3/2025	5	60	10.7		143		0		24		100		1				13		317		168.8	
10/3/2025	6	60	10.9		139		0		28		100		0				13		317		169.0	
10/3/2025	7	60	11.2		141		0		41		100		1		0		13	13	317	317	164.6	167.3
10/3/2025	8	60	11.0		141		2		76		98		1				13		318		166.9	
10/3/2025	9	60	11.1		143		0		46		100		1				13		318		167.7	
10/3/2025	10	60	10.9		141		0		31		100		1				13		317		166.9	
10/3/2025	11	60	10.7		141		0		38		100		1		1		13		318	318	167.7	167.3
10/3/2025	12	60	10.9		143		0		32		100		1				13		317		170.2	
10/3/2025	13	60	10.5		142		7		81		91		3				13		318		166.2	
10/3/2025	14	60	11.3		136		2		44		96		3				13		317		155.7	
10/3/2025	15	60	10.5		142		0		31		100		1		2		13	13	318	317	167.2	164.8
10/3/2025	16	60	10.5		140		0		37		100		1				13		317		166.8	
10/3/2025	17	60	10.4		139		0		29		100		3				13		317		167.9	
10/3/2025	18	60	10.5		142		0		37		100		1				13		317		169.0	
10/3/2025	19	60	10.6		142		0		40		100		1		1		13		318	317	166.4	167.5
10/3/2025	20	60	10.7		139		0		42		100		1				13		317		167.9	
10/3/2025	21	60	10.8		141		0		39		100		21				13		317		166.9	
10/3/2025	22	60	10.8		142		0		33		100		0				13		318		167.0	
10/3/2025	23	60	10.6		141		0		38		100		1		6		13	13	318	317	167.4	167.3

	NOx	SO2 Outlet		SO2 Removal	CO	Carbon Feed	FF Temp	Steam
Average:	141				see above	see above	see above	see above
Geometric Mean Average:		0		100				
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**

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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PERFORMANCE FOR THE PLANET

Date 10/3/25
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Plant Wheelabrator North Andover
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.	4 Hr Block
10/3/2025	0	60	10.1		135		3		55		95		5				13		314		169.6	
10/3/2025	1	60	10.3		142		5		59		92		4				8		316		160.5	
10/3/2025	2	60	9.8		138		0		42		100		3				21		315		168.4	
10/3/2025	3	60	9.8		138		0		42		100		3		4		19		315	315	168.8	166.8
10/3/2025	4	60	9.9		141		0		48		100		5				15		315		167.6	
10/3/2025	5	60	10.0		140		2		63		97		3				23		315		167.9	
10/3/2025	6	60	9.8		139		0		56		100		3				21		315		169.2	
10/3/2025	7	60	10.1		139		18		139		87		4		4		16	17	315	315	165.9	167.7
10/3/2025	8	60	10.1		139		13		121		90		4				16		315		168.3	
10/3/2025	9	60	9.8		138		0		68		100		3				14		315		168.4	
10/3/2025	10	60	9.6		141		0		56		100		4				14		315		168.5	
10/3/2025	11	60	9.6		138		0		81		100		4		4		13		315	315	168.9	168.5
10/3/2025	12	60	9.6		138		0		70		100		4				14		315		168.3	
10/3/2025	13	60	9.5		139		9		110		91		4				14		315		167.5	
10/3/2025	14	60	9.8		141		8		117		93		4				14		315		167.2	
10/3/2025	15	60	9.5		139		0		80		100		3		4		14	14	315	315	167.7	167.7
10/3/2025	16	60	9.4		138		3		92		97		3				14		315		167.8	
10/3/2025	17	60	9.5		139		0		60		100		3				13		315		166.5	
10/3/2025	18	60	9.5		140		0		65		100		3				13		315		167.1	
10/3/2025	19	60	9.6		140		0		79		100		3		3		13		315	315	167.6	167.3
10/3/2025	20	60	9.7		137		6		107		95		28				13		315		165.8	
10/3/2025	21	60	9.7		139		13		131		90		3				13		315		167.3	
10/3/2025	22	60	9.6		137		8		103		93		3				13		315		167.7	
10/3/2025	23	60	9.7		140		1		81		98		2		9		13	13	315	315	167.5	167.1
Average:					139										see above		see above		see above		see above	
Geometric Mean Average:							0															
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-Oct-2025

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		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	2	IC	5	IC	1	1	1	1	1	1	1	1	2
7	1		1		1	1	1	1	1	1	1	1	1
8	1		1		1	1	1	1	1	1	1	1	1
9	1		1		1	1	1	1	1	1	1	1	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	1		1		1	1	1	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	1	1	1	1	1	1	1	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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OPACITY REPORT

Date 03-Oct-2025

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	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	2	IC	5	IC	1	1	1	1	1	1	1	1	2
7	1		1		1	1	1	1	1	1	1	1	1
8	1		1		1	1	1	1	1	1	1	1	1
9	1		1		1	1	1	1	1	1	1	1	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	1		1		1	1	1	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	1	1	1	1	1	1	1	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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