



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



Date 4/10/24

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.	4 Hr Block
4/10/2024	0	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF		0		132		0.0		
4/10/2024	1	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF		0		132		0.0		
4/10/2024	2	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF		0		132		0.0		
4/10/2024	3	5	20.2	ICF	0	ICF	6	ICF	0	IBF	0	IBCF	0	ICF	0	ICF		132	132	0.0	0.0	
4/10/2024	4	12	17.5	IBCF	67	IBCF	63	IBCF	0	IBF	0	IBCF	561	IBCF		0		132		0.0		
4/10/2024	5	0	21.0	IF	0	IF	6	IF	150	IBCF	96	IBCF	0	IF		0		132		0.0		
4/10/2024	6	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF		0		132		0.0		
4/10/2024	7	0	21.0	IF	0	IF	6	IF	-3	IBF	0	IBF	0	IF	140	IBCF	0	0	132	132	0.0	0.0
4/10/2024	8	0	21.0	IF	0	IF	6	IF	-30	IBF	0	IBF	0	IF		0		132		0.0		
4/10/2024	9	0	21.0	IF	0	IF	6	IF	-49	IBF	0	IBF	0	IF		0		132		0.0		
4/10/2024	10	0	21.0	IF	0	IF	6	IF	-81	IBF	0	IBF	0	IF		0		132		0.0		
4/10/2024	11	0	21.0	IF	0	IF	6	IF	3125	IBF	100	IBF	0	IF	0	IF	0	0	132	132	0.0	0.0
4/10/2024	12	0	21.0	IF	0	IF	6	IF	28	IBF	78	IBF	0	IF		0		132		0.0		
4/10/2024	13	0	21.0	IF	0	IF	6	IF	210	IBF	97	IBF	0	IF		0		132		0.0		
4/10/2024	14	0	21.0	IF	0	IF	6	IF	134	IBF	96	IBF	0	IF		0		132		0.0		
4/10/2024	15	0	21.1	IF	0	IF	6	IF	64	IBF	91	IBF	0	IF	0	IF	0	0	132	132	0.0	0.0
4/10/2024	16	0	21.1	IF	0	IF	6	IF	7	IBF	16	IBF	0	IF		0		132		0.0		
4/10/2024	17	0	21.1	IF	0	IF	6	IF	301	IBF	98	IBF	0	IF		0		132		0.0		
4/10/2024	18	0	21.1	IF	0	IF	6	IF	6262	IBF	100	IBF	0	IF		0		132		0.0		
4/10/2024	19	0	21.1	IF	0	IF	6	IF	-2062	IBF	0	IBF	0	IF	0	IF	0	0	132	132	0.0	0.0
4/10/2024	20	0	21.1	IF	0	IF	5	IF	-703	IBF	0	IBF	0	IF		0		132		0.0		
4/10/2024	21	0	21.1	IF	0	IF	5	IF	-352	IBF	0	IBF	0	IF		0		132		0.0		
4/10/2024	22	0	21.1	IF	0	IF	5	IF	-332	IBF	0	IBF	0	IF		0		132		0.0		
4/10/2024	23	0	21.1	IF	0	IF	5	IF	-368	IBF	0	IBF	0	IF	0	IF	0	0	132	132	0.0	0.0

Average:
Geometric Mean Average:

Limit:

3 IBCF	7 IBCF	OR	0 IBCF	see above	see above	see above
≤ 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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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.
4/10/2024	0	60	10.2		139		0		22		100		7			15		310		168.2	
4/10/2024	1	60	10.3		139		0		27		100		7			16		310		166.3	
4/10/2024	2	60	10.1		141		0		44		99		8			16		310		167.8	
4/10/2024	3	60	10.2		139		2		59		97		7	7		15		310	310	166.4	167.2
4/10/2024	4	60	9.9		141		0		43		100		8			14		310		167.6	
4/10/2024	5	60	10.3		140		0		35		100		8			15		310		167.0	
4/10/2024	6	60	10.7		139		0		25		100		6			15		310		168.3	
4/10/2024	7	60	10.9		138		1		30		97		7	7		17	15	310	310	165.8	167.2
4/10/2024	8	60	11.0		140		0		31		100		8			13		310		165.1	
4/10/2024	9	60	10.6		138		5		56		91		9			16		310		167.0	
4/10/2024	10	60	10.6		139		1		31		96		8			16		310		167.5	
4/10/2024	11	60	11.3		140		8		42		81		7	8		16		310	310	167.0	166.6
4/10/2024	12	60	10.9		139		4		43		91		8			15		310		164.3	
4/10/2024	13	60	11.0		140		3		41		93		9			16		310		167.5	
4/10/2024	14	60	10.6		141		5		49		89		7			15		310		166.7	
4/10/2024	15	60	10.1		140		5		48		90		8	8		14	15	310	310	166.2	166.2
4/10/2024	16	60	10.4		139		1		31		97		7			14		310		168.6	
4/10/2024	17	60	10.5		140		2		43		94		8			14		310		166.3	
4/10/2024	18	60	10.5		139		1		38		96		7			14		310		167.0	
4/10/2024	19	60	10.3		139		4		40		91		8	7		14		310	310	166.9	167.2
4/10/2024	20	60	10.1		140		2		36		94		7			14		310		168.0	
4/10/2024	21	60	10.6		141		1		37		97		7			14		310		166.4	
4/10/2024	22	60	10.4		139		4		37		89		7			14		310		167.1	
4/10/2024	23	60	10.4		141		1		31		97		8	7		15	14	310	310	165.5	166.7

Average: Geometric Mean Average:	140	1	OR	98	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 10-Apr-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	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
1	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
2	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
3	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
4	0		0		0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
5	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
6	0	ICF	22	ICF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	2
7	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
8	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
9	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
10	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
11	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
12	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
13	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
14	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
15	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
16	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
17	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
18	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
19	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
20	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
21	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
22	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
23	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0

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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	1	1	1	1	1	1	2
7	2	2	2	2	2	2	2	2	2	2	2
8	1	1	1	2	2	2	2	2	2	2	1
9	2	1	1	2	2	2	2	2	2	2	1
10	1	1	1	1	1	1	2	2	2	1	1
11	2	2	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	2	2	1	1	1	2	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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