

**Table 9A
Fresh Meadows
ASF Permit Application
CLCPA Analysis
GHG Average Actual Rate**

Facility ID# 2-6306-00071/00003

1	Title V PTE NOx emission limit	lbs./yr	198120	Note 1	1	ASF Permit Appl. PTE NOx Limit	lbs./yr	N. A.	Note 1
1.1	NOx emission factor [EPA AP-42]	lbs./10 ⁶ SCF	100	Note 2	1.1	NOx emission factor [EPA AP-42]	lbs./10 ⁶ SCF	100	Note 2
1.2	Max. Nat'l Gas Annual consumption	10 ⁶ SCF /yr	1981.2		1.2	Average Nat'l Gas Annual consumption - 2011-2021	10⁶ SCF /yr	258	Note 6
2	GHG emissions annual rate				2	GHG emissions annual rate			
2.1	NG HHV	10 ⁶ Btu / scf	0.001026		2.1	NG HHV	10 ⁶ Btu / scf	0.001026	
2.2	NG Heat Input /yr	NG 10 ⁶ Btu/yr	2032711		2.2	NG Heat Input /yr	NG 10 ⁶ Btu/yr	264853	
2.3	E.F. CO ₂	kg CO ₂ per 10 ⁶ Btu	53.06	Note 3	2.3	E.F. CO ₂	kg CO ₂ per 10 ⁶ Btu	53.06	Note 3
2.4	CO ₂ Annual emission rate	kg CO ₂ per yr	107855656		2.4	CO ₂ Annual emission rate	kg CO ₂ per yr	14053107	
	kg to lbs.		2.2046			kg to lbs.		2.2046	
		lbs CO ₂ per yr	237778579.8				lbs CO ₂ per yr	30981479	
		lbs. to metric tons	2204.6				lbs. to metric tons	2204.6	
		metric tons CO ₂ per yr	107856				metric tons CO ₂ per yr	14053	
2.5	E.F. CH ₄	kg CH ₄ per 10 ⁶ Btu	0.001	Note 4	2.5	E.F. CH ₄	kg CH ₄ per 10 ⁶ Btu	0.001	Note 4
	CH ₄ Annual emission rate	kg CH ₄ per yr	2033			CH ₄ Annual emission rate	kg CH ₄ per yr	265	
		metric tons CH ₄ per yr	1				metric tons CH ₄ per yr	0.1	
2.6	E.F. N ₂ O	kg N ₂ O per 10 ⁶ Btu	0.0001	Note 4	2.6	E.F. N ₂ O	kg N ₂ O per 10 ⁶ Btu	0.0001	Note 4
	N ₂ O Annual emission rate	kg N ₂ O per yr	203.3			N ₂ O Annual emission rate	kg N ₂ O per yr	26.5	
		metric tons N ₂ O per yr	0.1				metric tons N ₂ O per yr	0.01	
2.7	Carbon dioxide equivalent value [CO _{2e}]				2.7	Carbon dioxide equivalent value [CO _{2e}]			
	GWP20			Note 5		GWP20			Note 5
	CO ₂		1			CO ₂		1	
	CH ₄		84			CH ₄		84	
	N ₂ O		264			N ₂ O		264	
	CO ₂	[CO _{2e}]	metric tons			CO ₂	[CO _{2e}]	metric tons	14053
	CH ₄	[CO _{2e}]	metric tons			CH ₄	[CO _{2e}]	metric tons	10
	N ₂ O	[CO _{2e}]	metric tons			N ₂ O	[CO _{2e}]	metric tons	3
	Total	[CO_{2e}]	metric tons			Total	[CO_{2e}]	metric tons	14066

GHG Emissions:

ATV Permit	[CO_{2e}] metric tons	107957
ASF Permit		14066
% Reduction - ASF Permit vs ATV Permit		-87%
ASF Permit PTE		27136
ASF Permit Actual		14066
% Actual vs PTE		52%

Notes:

- 1 NYSDEC ATV Permit Review Report page 6, or, NYSDEC Draft ASF Working Copy 6/2/2022; PC2
- 2 EPA AP-42 Table 1.4-1 NOx Emission Factor, small boilers, uncontrolled
- 3 40 CFR Part 98 Table C-1 updated 12/9/2016
- 4 40 CFR Part 98 Table C-2 updated 12/9/2016
- 5 NYSDEC Part 496.5
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