

**Table 9  
Fresh Meadows  
ASF Permit Application  
CLCPA Analysis  
GHG PTE Emission Rates**

Facility ID# 2-6306-00071/00003

<b>1</b>	<b>Title V PTE NOx emission limit</b>	<b>lbs./yr</b>	<b>198120</b>	Note 1	<b>1</b>	<b>ASF Permit Appl. PTE NOx Limit</b>	<b>lbs./yr</b>	<b>49800</b>	Note 1
1.1	NOx emission factor [EPA AP-42]	lbs./10 <sup>6</sup> SCF	100	Note 2	1.1	NOx emission factor [EPA AP-42]	lbs./10 <sup>6</sup> SCF	100	Note 2
1.2	Max. Nat'l Gas Annual consumption	10 <sup>6</sup> SCF /yr	1981.2		1.2	Max. Nat'l Gas Annual consumption	10 <sup>6</sup> SCF /yr	498	
<b>2</b>	<b>GHG emissions annual rate</b>				<b>2</b>	<b>GHG emissions annual rate</b>			
2.1	NG HHV	10 <sup>6</sup> Btu / scf	0.001026		2.1	NG HHV	10 <sup>6</sup> Btu / scf	0.001026	
2.2	NG Heat Input /yr	NG 10 <sup>6</sup> Btu/yr	2032711		2.2	NG Heat Input /yr	NG 10 <sup>6</sup> Btu/yr	510948	
2.3	E.F. CO <sub>2</sub>	kg CO <sub>2</sub> per 10 <sup>6</sup> Btu	53.06	Note 3	2.3	E.F. CO <sub>2</sub>	kg CO <sub>2</sub> per 10 <sup>6</sup> Btu	53.06	Note 3
2.4	CO <sub>2</sub> Annual emission rate	kg CO <sub>2</sub> per yr	107855656		2.4	CO <sub>2</sub> Annual emission rate	kg CO <sub>2</sub> per yr	27110901	
	kg to lbs.		2.2046			kg to lbs.		2.2046	
		lbs CO <sub>2</sub> per yr	237778579.8				lbs CO <sub>2</sub> per yr	59768692	
		lbs. to metric tons	2204.6				lbs. to metric tons	2204.6	
		metric tons CO <sub>2</sub> per yr	107856				metric tons CO <sub>2</sub> per yr	27111	
2.5	E.F. CH <sub>4</sub>	kg CH <sub>4</sub> per 10 <sup>6</sup> Btu	0.001	Note 4	2.5	E.F. CH <sub>4</sub>	kg CH <sub>4</sub> per 10 <sup>6</sup> Btu	0.001	Note 4
	CH <sub>4</sub> Annual emission rate	kg CH <sub>4</sub> per yr	2033			CH <sub>4</sub> Annual emission rate	kg CH <sub>4</sub> per yr	511	
		metric tons CH <sub>4</sub> per yr	1				metric tons CH <sub>4</sub> per yr	0.2	
2.6	E.F. N <sub>2</sub> O	kg N <sub>2</sub> O per 10 <sup>6</sup> Btu	0.0001	Note 4	2.6	E.F. N <sub>2</sub> O	kg N <sub>2</sub> O per 10 <sup>6</sup> Btu	0.0001	Note 4
	N <sub>2</sub> O Annual emission rate	kg N <sub>2</sub> O per yr	203.3			N <sub>2</sub> O Annual emission rate	kg N <sub>2</sub> O per yr	51.1	
		metric tons N <sub>2</sub> O per yr	0.1				metric tons N <sub>2</sub> O per yr	0.02	
2.7	Carbon dioxide equivalent value [CO <sub>2e</sub> ]				2.7	Carbon dioxide equivalent value [CO <sub>2e</sub> ]			
	GWP20			Note 5		GWP20			Note 5
	CO <sub>2</sub>		1			CO <sub>2</sub>		1	
	CH <sub>4</sub>		84			CH <sub>4</sub>		84	
	N <sub>2</sub> O		264			N <sub>2</sub> O		264	
	CO <sub>2</sub>	[CO <sub>2e</sub> ]	metric tons			CO <sub>2</sub>	[CO <sub>2e</sub> ]	metric tons	27111
	CH <sub>4</sub>	[CO <sub>2e</sub> ]	metric tons			CH <sub>4</sub>	[CO <sub>2e</sub> ]	metric tons	19
	N <sub>2</sub> O	[CO <sub>2e</sub> ]	metric tons			N <sub>2</sub> O	[CO <sub>2e</sub> ]	metric tons	6
	<b>Total</b>	<b>[CO<sub>2e</sub>]</b>	<b>metric tons</b>			<b>Total</b>	<b>[CO<sub>2e</sub>]</b>	<b>metric tons</b>	<b>27136</b>

<b>GHG Emissions:</b>		<b>[CO<sub>2e</sub>] metric tons</b>
<b>ATV Permit</b>		<b>107957</b>
<b>ASF Permit</b>		<b>27136</b>
<b>% Reduction - ASF Permit vs ATV Permit</b>		<b>-75%</b>
<b>1990 NYS</b>		<b>409480000</b>
<b>ATV Permit Percent</b>		<b>0.026%</b>
<b>2030 NYS</b>		<b>245870000</b>
<b>ASF Permit Percent</b>		<b>0.011%</b>

- 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