

**Forehearth Emission Summary**  
**Arglass Yamamura, LLC.**  
**Valdosta Georgia**

**Forehearths LT11, LT12, LT13 and LT14**

<b>Firing Rate and Fuel Use: <sup>(1)</sup></b>	
Maximum Firing Rate (MMScf/hr)	0.027
Average Firing Rate (MMScf/hr)	0.027
Heating value of Fuel (MMBtu/MMScf)	1,020
Total Firing Rate For 4 Forehearths (MMBtu/hr)	27.30
Total Annual Operating Hours (hr/yr)	8,760
Potential Annual Heat Input (MMBtu/yr)	239,148
Potential Annual Fuel Usage (MMScf/yr)	234.5
<b>Emission Factors (lb/MMscf) <sup>(2)</sup></b>	
CO	84
NOx	100
SO2	0.6
PM/PM-10/PM-2.5	7.6
VOC	5.5
<b>Emission Factors (ton/MMBtu) <sup>(3)</sup></b>	
CO <sub>2</sub>	5.84E-02
CH <sub>4</sub>	1.10E-06
N <sub>2</sub> O	1.10E-07
<b>Hourly Emissions (lb/hr)</b>	
CO	2.25
NOx	2.676
SO2	0.016
PM/PM-10/PM-2.5	0.203
VOC	0.147
<b>Annual Emissions (TPY)</b>	
CO	9.85
NOx	11.723
SO2	0.070
PM/PM-10/PM-2.5	0.891
VOC	0.645
CO <sub>2</sub> e	13,991.3

Notes:

- (1) Heat Inputs and firing rates are calculated for three (3) forehearths combined.
- (2) Emission factors are based on AP-42 Table 1.4-2 natural gas combustion for small boilers (<100 Mmbtu/hr)
- (3) Calculated based on emission factors in 40 CFR 98 Subpart C, Tables C-1 & C-2