Table C-2. Whole Log Receiving, Processing, and Storage Operating Parameters

Emission Source	Annual Throughput (tons/year)[1]
Truck Unloading	1,100,000
Whole Log Pile	1,100,000
Drum Debarker	1,100,000
Chipper	1,100,000

1. Annual throughput based on amount of dryed material needed to generate final amount of finished pellets.

Table C-3. Raw Material Handling Emission Factors

Pollutant	Emission Factor[1] (lb/ton)
Filterable PM	5.95E-05
Filterable PM_{10}	2.81E-05
Filterable $PM_{2.5}$	4.26E-06

1. PM emission factor for receiving and storage calculated using continuous drop point equation from AP-42, Section 13.2.4 Aggregate Handling and Storage Piles (11/06).

PM Emission Factor (lb/ton) = $[k * (0.0032) * (U/5)^{1.3}] / (M/2)^{1.4}$

k - PM	0.74	Particle size multiplier for PM_{30} per AP-42, Section 13.2.4-4 (11/06).
k - PM_{10}	0.35	Particle size multiplier for PM_{10} per AP-42, Section 13.2.4-4 (11/06).
k - $PM_{2.5}$	0.053	Particle size multiplier for $PM_{2.5}$ per AP-42, Section 13.2.4.3.
M (%)	40	Moisture content indicated on moisture balance.
U	7.400	Based on EPA's TANKS 4.09d Database for Athens, GA.

Table C-4. Potential Emissions from Raw Material Handling

Emission Source	Potential Emissions[1]					
	Filterable PM		Filterable PM_{10}		Filterable $PM_{2.5}$	
	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
Truck Unloading	7.47E-03	3.27E-02	3.53E-03	1.55E-02	5.35E-04	2.34E-03
Whole Log Pile	7.47E-03	3.27E-02	3.53E-03	1.55E-02	5.35E-04	2.34E-03
Drum Debarker	7.47E-03	3.27E-02	3.53E-03	1.55E-02	5.35E-04	2.34E-03
Chipper	7.47E-03	3.27E-02	3.53E-03	1.55E-02	5.35E-04	2.34E-03

1. Potential Emissions are calculated as follows:
Potential Emissions (tons/year) = Emission Factor (lb/ton) * Annual Throughput (tons/year) / 2,000 (lbs/ton)
Potential Emissions (lb/hour) = Emission Factor (lb/ton) * Annual Throughput (tons/year) / Annual Operation (hours/year)
Annual operation assumes 8,760 hours/year of operation