

*Providing Essential Services – Manufacturing Carbon Fertilizer – Benefiting Host Communities & Environment*

### SBS Water & Wastewater Requirements

Note: SBS intends to recycle the wastewater from the ammonia scrubber into the carbon fertilizer to avoid nutrient discharge to the sewer. The wastewater replaces water that would otherwise be consumed from the municipality to hydrate the carbon fertilizer.

SBS Water					
	Phase 1	Phase 2	Phase 3	Total	Units
<b>Process</b>	<b>368</b>	<b>368</b>	<b>368</b>	<b>1,103</b>	<b>GPH</b>
Venturi Scrubber	259	259	259	<b>778</b>	GPH
Sulfur Dioxide (SO <sub>2</sub> ) Scrubber	74	74	74	<b>223</b>	GPH
Ammonia (NH <sub>4</sub> ) Scrubber	13	13	13	<b>39</b>	GPH
Bioscrubber	21	21	21	<b>63</b>	GPH
<b>Office</b>	<b>30</b>	<b>5</b>	<b>5</b>	<b>40</b>	<b>GPH</b>
<b>Truck Wash</b>	<b>60</b>	<b>25</b>	<b>25</b>	<b>110</b>	<b>GPH</b>
<b>Total, hourly</b>	<b>458</b>	<b>398</b>	<b>398</b>	<b>1,253</b>	<b>GPH</b>
<b>Total, daily</b>	<b>10,986</b>	<b>9,546</b>	<b>9,546</b>	<b>30,079</b>	<b>GPD</b>

SBS Wastewater					
	Phase 1	Phase 2	Phase 3	Total	Units
<b>Process</b>	<b>391</b>	<b>391</b>	<b>391</b>	<b>1,174</b>	<b>GPH</b>
Venturi Scrubber					
Discharge	259	259	259	<b>778</b>	GPH
Dust (biosolids)	2.2	2.2	2.2	<b>6.7</b>	lbs/h
Sulfur Dioxide (SO <sub>2</sub> ) Scrubber					
Discharge	92	92	92	<b>276</b>	GPH
Calcium Sulfite CaSO <sub>3</sub> ·x(H <sub>2</sub> O)	147	147	147	<b>440</b>	lbs/h
Ammonia (NH <sub>4</sub> ) Scrubber					
Discharge	19	19	19	<b>57</b>	GPH
Ammonium Sulfate (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	49	49	49	<b>146</b>	lbs/h
Bioscrubber					
Discharge	21	21	21	<b>64</b>	GPH
<b>Office</b>	<b>25</b>	<b>5</b>	<b>5</b>	<b>35</b>	<b>GPH</b>
<b>Truck Wash</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>75</b>	<b>GPH</b>
<b>Total, hourly</b>	<b>441</b>	<b>421</b>	<b>421</b>	<b>1,284</b>	<b>GPH</b>
<b>Total, daily</b>	<b>10,593</b>	<b>10,113</b>	<b>10,113</b>	<b>30,819</b>	<b>GPD</b>
<b>Total, minus NH<sub>4</sub> Scrubber, hourly</b>	<b>422</b>	<b>402</b>	<b>402</b>	<b>1,227</b>	<b>GPH</b>
<b>Total, minus NH<sub>4</sub> Scrubber, daily</b>	<b>10,139</b>	<b>9,659</b>	<b>9,659</b>	<b>29,456</b>	<b>GPD</b>