Physical Characteristics and Maturity Index of 5 Compost Samples

Weight of 5 gallons	Woodchip Plenum 12.83 lbs	Vertical Pipes 12.79 lbs	Static Aerated 9.43 lbs	Control Pile 1 12.60 lbs	Control Pile 2 20.60 lbs
Not passing thru the screen	11.43 lbs	10.00 lbs	8.44 lbs	10.25 lbs	13.16 lbs
Passing thru 1/4" screen "fit	nes" 1.26 lbs	2.66 lbs	1.15 lbs	2.25 lbs	7.17 lbs
Percent fines	9.8%	20.7%	12.1%	17.8%	34.8%
Bulk Density (Pounds/cu/ye	d) 509.4 lbs/cu yd	507.8 lbs/cu yd	374.4 lbs/cu yd	500.2 lbs/cu yd	817.8 lbs/cu yd
Solvita Maturity Index	6	6	7	7	7

(For comparison a sample of 2 year old compost from a stockpile is 945.3 lbs/cu yd and 76.7% fines)

Solvita tests were performed on each of the 5 samples that the physical tests were run on. A measured of volume of sifted compost is added to a jar with 2 test squares and sealed with an airtight top. One square will measure CO2, or respiration as the amount of oxygen consumed. The other square measures the NH3 or the amount of ammonia still being given off by the organic material in the sample. After a specific amount of time the color change on the test squares is compared to a chart to determine a number value of CO2 and NH3. From another chart provided with the test kit, a combination of the two scores provides a Maturity Index number, or how well cured (or the completeness of decomposition) of the sample on a scale of 1 to 8. From the test handbook, "A Solvita maturity index of 6 and above is commonly recognized as suitable maturity for official uses"