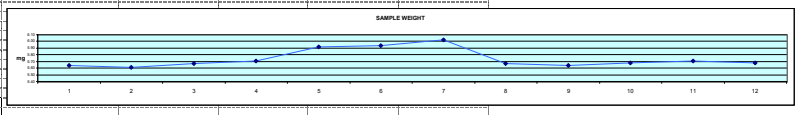
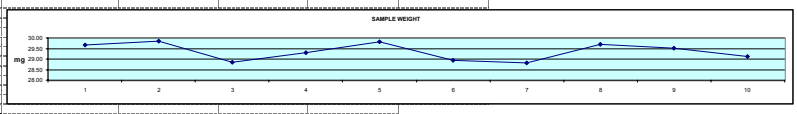
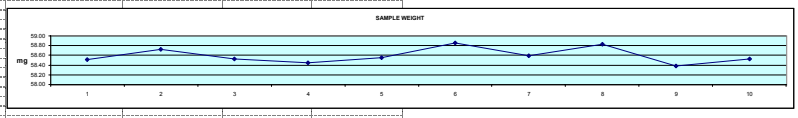
Customer	**SDSII**							
Material	**DIATOMAECIOUS EARTH (DE)**			**Est. Bulk Density**		0.5 EST.	Date	12/10/01
Desired Sample size	Misc.						**rh**	50%
Desired accuracy	**1.5% Repeatability of samples at various settings**					**Pipette Size**	**.375 dia. PIPETE**	

Micrometer setting		**Sample weight** mg	**Control unit settings** Vacuum (1in hg)	Air (psi)
			5	4
.325 dia.		5.64		
1.00		5.61		
		5.67		
		5.71		
sample packed		5.92		
Tap density		5.94		
changes		6.02		
	sharp	5.67		
	edge	5.64		
		5.68		
		5.71		
		5.68		
		5.74 Av		
		5.74 Mean		
		0.1370 Std Dev		
.375 dia.				
5.00		29.66		
		29.84		
		28.85		
		29.29		
		29.83		
		29.94		
		28.62		
		29.71		
		29.51		
		29.13		
		29.32 Av		
		29.32 Mean		
		0.4044 Std Dev		
.375 dia.				
10		58.51		
		58.72		
		58.52		
		58.45		
		58.55		
		58.66		
		58.59		
		58.83		
		58.38		
		58.52		
		58.59 Av		
		58.59 Mean		
		0.1594 Std Dev		

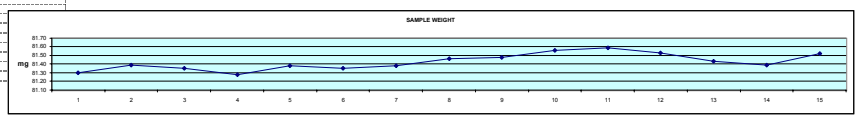
Notes:
Smallest setting was 1.0 on thimble. Samples temeded to pack using the scraper. Changed of tap density
Suggest sharp edge or wire to level tip end for small samples.
Larger samples were more uniform using the scraper plate.







.375 dia.			
13.0		81.30	
		81.39	
		81.35	
		81.28	
		81.38	
		81.35	
		81.35	
		81.38	
		81.46	
		81.48	
		81.56	
		81.59	
		81.53	
		81.43	
		81.39	
		81.52	
		81.43 Av	
		81.46 Mean	
		0.0942 Std Dev	



Scraper did not affect Tap Density as much due to the larger sample volume.