Grain Size Analysis–Hydrometer Datasheet

1. Project	2. Researcher:	3. Date
4. Sample ID	5. Hydrometer Number/Type	

Sample Preparation

6. Pre-Treatment	☐ HCl	☐ H_2O_2	☐ Fe−O
7. Beaker ID	8. Dispersing Agent	9. Specific Gravity of Particles $GS_p =$	10. Desired Sample ☐ 50 g ☐ 100 g
11. Total Soil for Split (g)		12. Soil Passing Sieve No. 10 (g)	
13. Tin #:	14. Tin Tare Weight	15. Tin w/Air-Dried Soil	16. Tin w/Oven-Dried Soil

Calculated Values

17. % Passing No. 10	18. % Hygroscopic Correction Factor	19. Effective Soil Weight WS_e	20. Actual Air-Dried Soil Weight WS_a

Hydrometer Readings and Calculations *K is a constant that is calculated by the temperature and density of the suspension.

21. Time	22. Elapsed Time (t) sec/min	23. Actual Hydrometer Reading (R_a)	24. Blank Hydrometer Reading (R_b)	25. Temp. °C	26. K constant*	27. Effective Depth (L)	28. Particle Diameter (D_e)	29. PF Partial	30. PF Total

No. 200 Sieve Processing

31. Tin #	32. Tin Mass (g)	33. Dry Soil w/Tin (g)

Quality Control/Quality Assurance

34. Researcher (Signature)	35. Data Entry By (Signature)	36. Quality Check By (Signature)