CE3105 Mechanics of Fluids Laboratory

Department of Civil Engineering ,Texas Tech University

Experiment: Manning's n - Data Sheet

Date of Experiment:,Name:....

Experimental Data:

Temperature of water, T=21 celsius

Water density, $\rho = (lb/ft^3)$, Gravity, $g = 32.2 (ft/s^2)$

Part 1:

Trial	$H_1(ft)$	H_2 (ft)	Manual Dept. (in)	h Digital Depth (cm)
1	1.63	1.55	2.213	16
2	1.65	1.50	2.409	15
3	1.72	1.37	2.990	13.5
4	1.80	1.20	3.330	12.5
5	1.95	0.85	3.730	11.5

Part 2:

Slope = 1 Percent						
Trial	H_1 (ft)	H_2 (ft)	Depth (in)			
1	1.82	1.16	1.742			
2	1.79	1.18	1.620			
3	2.05	0.53	2.590			

Slope = 3 Percent						
Trial	H_1 (ft)	H_2 (ft)	Depth			
			Depth (in)			
1	2.05	0.52	2.510			
2	2.19	0.65	2.400			
3	1.91	0.95	2.040			

Slope $=5$ Percent						
Trial	H_1 (ft)	H_2 (ft)	Depth (in)			
1	1.91	0.95	1.865			
2	1.98	0.79	2.408			
3	2.02	0.61	2.236			