

Supplementary Files for Article Entitled: “*Impact of Sedimentation on Water Seepage Capacity in Lake Nakuru*”

	LABORATORY TEST DATA SHEET																	
	Specific gravity of solids soil Sediment																	
	Scope: Determination of Specific gravity of soil sediment specimen, (Gs)																	
	Description of soil: <i>sediment</i>						Sampling point No.: P1											
	Volume of Density Bottle at 20°C: 100 ml						Temperature of test		23 (°C)									
	Location: <i>Lake Nakuru</i> (00°21'33"S, 36°05'41"E)						Correction Factor (A)		0.9993									
	Tested by: IRADUKUNDA Parfait						Date: 02 July 2019											
Items	Test Number																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Subsample on the core (cm)	≈0 - 5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90
Mass of density bottle, W ₁ (g)	37.78	38.68	38.91	47.17	37.5	37.03	57.61	38.39	36.64	46.53	36.78	39.86	39.07	47.27	37.89	37.1 5	57.7 4	38.5
Mass of density bottle + soil, W ₂ (g)	56.75	61.66	65.96	70.73	57.58	52.89	74.17	57.86	56.1	62.83	53.92	57.93	58.22	67.57	56.11	55.5 2	73.1 1	54.8 7
Mass of bottle +soil+ water, W ₃ (g)	151.92	154.84	156.79	158.97	157	148.48	162.49	152.2	149.04	156.49	150.11	154.36	154.36	157.7 8	154.4 8	148. 45	161. 41	150. 41
Mass of bottle + water filled, W ₄ (g)	142.11	145.78	146.41	149.58	147.37	140.37	153.27	143.49	139.62	148.3	141.56	146.44	146.42	149.6 1	147.4 3	140. 43	155. 29	143. 62
Mass of equal volume of water, W _w (g)	9.16	13.92	16.67	14.17	10.45	7.75	7.34	10.76	10.04	8.11	8.59	10.15	11.21	12.13	11.17	10.3 5	9.25	9.58
MEASUREMENTS AND CALCULATIONS																		
G _s (T ₁ °c) =W _s /W _w	2.07	1.65	1.62	1.66	1.92	2.05	2.26	1.81	1.94	2.01	2.00	1.78	1.71	1.67	1.63	1.77	1.66	1.71
G _s (20°c) =G _s (T ₁ °c)*A	2.07	1.65	1.62	1.66	1.92	2.05	2.25	1.81	1.94	2.01	1.99	1.78	1.71	1.67	1.63	1.77	1.66	1.71
Notes and observations: Kinda Lighty / Sediment																		

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	LABORATORY TEST DATA SHEET											
	Specific gravity of soil Sediment solids											
	Scope: Determination of Specific gravity of soil sediment specimen, (Gs)											
	Description of soil: <i>sediment</i>				Sampling Point No.: 2							
	Volume of Density Bottle at 20°C: 100 ml				Temperature of test		22 °C					
	Location: <i>Lake Nakuru</i> (00°20'22"S, 36°04'54"E)				Correction Factor (A)		0.9996					
	Tested by: IRADUKUNDA Parfait				Date: 02 Aug 2019							
Items	Test Number											
	1	2	3	4	5	6	7	8	9	10	11	
Subsample on the core (cm)	≈0 - 5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	
Mass of density bottle, W ₁ (g)	36.78	39.91	39.02	47.29	37.62	37.1	57.73	38.49	36.73	46.62	47.13	
Mass of density bottle + soil, W ₂ (g)	57.34	67.44	64.9	72.51	62.9	64.1	85.18	69.88	67.09	79.74	80.08	
Mass of bottle +soil+ water, W ₃ (g)	153.37	161.72	160.91	163.25	161.25	155.26	170.24	161.2	155.5	165.65	167.62	
Mass of bottle + water filled, W ₄ (g)	141.58	146.45	146.44	149.63	147.47	140.45	155.33	143.57	139.67	148.36	148.44	
Mass of equal volume of water, Ww (g) = (W ₄ - W ₁) - (W ₃ - W ₂) (g)	8.77	12.26	11.41	11.6	11.5	12.19	12.54	13.76	14.53	15.83	13.77	
MEASUREMENTS AND CALCULATIONS												
Gs(T ₁ °c) =Ws/Ww	2.34	2.25	2.27	2.17	2.20	2.21	2.19	2.28	2.09	2.09	2.39	
Gs(20°c) =Gs(T ₁ °c) *A	2.34	2.24	2.27	2.17	2.20	2.21	2.19	2.28	2.09	2.09	2.39	
Notes and observations: not weighty / Sediment												