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UNCONFINED COMPRESSION TEST RESULTS											
PROJECT		: BACHELOR RESEARCH									
LOCATION		: SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY									
SAMPLE		: #1 (C3% - 14 DAYS)									
NO. SAMPLE		: -									
TESTING METHOD		: ASTM D 2166-06					MADE		: RULY SULTAN SIAHAAN		
LABORATORY		: HASANUDDIN UNIVERSITY					TESTED BY		: RULY SULTAN SIAHAAN		
							DATE		: APRIL 2022		
Sample Depth		-		m		Index Properties		Weight of Wet Soil		406.00 gram	
Sample Size		Diameter, d		5.50 cm				Weight of Dry Soil		387.00 gram	
		Height, h		11.04 cm				Water Content		4.91 %	
		Volume		262.29 cm ³				Dry Unit Weight		1.475 gram/cm ³	
		Area, A _o		23.76 cm ²		Proving Ring Calibration				1.32 kg/div	
Axial Deformation		Axial Load & Stress				Axial Deformation		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A	δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	23.76	0.000						
0.05	0.45	7.0	9.21	23.87	0.386						
0.10	0.91	16.0	21.06	23.98	0.878						
0.15	1.36	38.0	50.01	24.09	2.076						
0.20	1.81	72.0	94.75	24.20	3.916						
0.25	2.26	143.0	188.19	24.31	7.742						
0.30	2.72	210.0	276.36	24.42	11.316						
0.35	3.17	295.0	388.22	24.54	15.822						
0.40	3.62	198.0	260.57	24.65	10.570						

UNCONFINED COMPRESSION TEST RESULTS											
PROJECT		: BACHELOR RESEARCH									
LOCATION		: SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY									
SAMPLE		: #1 (C3% - 28 DAYS)									
NO. SAMPLE		: -									
TESTING METHOD		: ASTM D 2166-06					MADE		: RULY SULTAN SIAHAAN		
LABORATORY		: HASANUDDIN UNIVERSITY					TESTED BY		: RULY SULTAN SIAHAAN		
							DATE		: APRIL 2022		
Sample Depth		-		m		Index Properties		Weight of Wet Soil		408.00 gram	
Sample Size		Diameter, d		5.53 cm				Weight of Dry Soil		391.74 gram	
		Height, h		11.05 cm				Water Content		4.15 %	
		Volume		265.40 cm ³				Dry Unit Weight		1.476 gram/cm ³	
		Area, A _o		24.02 cm ²		Proving Ring Calibration				5.40 lbs/div	
Axial Deformation		Axial Load & Stress				Axial Deformation		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A	δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	24.02	0.000						
0.05	0.45	8.0	19.61	24.13	0.813						
0.10	0.90	23.0	56.39	24.24	2.326						
0.15	1.36	65.0	159.35	24.35	6.545						
0.20	1.81	95.0	232.90	24.46	9.521						
0.25	2.26	128.0	313.80	24.57	12.770						
0.30	2.71	178.0	436.38	24.69	17.676						
0.35	3.17	123.0	301.55	24.80	12.157						
0.40	3.62	89.0	218.19	24.92	8.756						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C7% - 14 DAYS)			
NO. SAMPLE	:	-	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth		-	m	Index Properties	Weight of Wet Soil	408.00	gram
Sample Size	Diameter, d	5.50	cm		Weight of Dry Soil	386.51	gram
	Height, h	11.00	cm		Water Content	5.56	%
	Volume	261.34	cm ³		Dry Unit Weight	1.479	gram/cm ³
	Area, Ao	23.76	cm ²	Proving Ring Calibration		5.40	lbs/div

Axial Deformation		Axial Load & Stress				Axial Deformation		Axial Load & Stress			
		Axial Load		Axial Stress				Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	23.76	0.000						
0.05	0.45	7.0	17.16	23.87	0.719						
0.10	0.91	18.0	44.13	23.98	1.841						
0.15	1.36	34.0	83.35	24.09	3.461						
0.20	1.82	78.0	191.22	24.20	7.902						
0.25	2.27	113.0	277.03	24.31	11.395						
0.30	2.73	145.0	355.48	24.42	14.554						
0.35	3.18	176.0	431.48	24.54	17.583						
0.40	3.64	198.0	485.42	24.65	19.689						
0.45	4.09	211.0	517.29	24.77	20.882						
0.50	4.55	196.0	480.51	24.89	19.306						
0.55	5.00	178.0	436.38	25.01	17.449						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C7% - 28 DAYS)			
NO. SAMPLE	:	-	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth		-	m	Index Properties	Weight of Wet Soil	399.00	gram
Sample Size	Diameter, d	5.50	cm		Weight of Dry Soil	386.59	gram
	Height, h	11.00	cm		Water Content	3.21	%
	Volume	261.34	cm ³		Dry Unit Weight	1.479	gram/cm ³
	Area, Ao	23.76	cm ²	Proving Ring Calibration		1.32	lbs/div

Axial Deformation		Axial Load & Stress				Axial Deformation		Axial Load & Stress			
		Axial Load		Axial Stress				Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	23.76	0.000						
0.05	0.45	20.0	26.40	23.87	1.106						
0.10	0.91	54.0	71.28	23.98	2.973						
0.15	1.36	87.0	114.84	24.09	4.768						
0.20	1.82	121.0	159.72	24.20	6.600						
0.25	2.27	178.0	234.96	24.31	9.665						
0.30	2.73	287.0	378.84	24.42	15.511						
0.35	3.18	350.0	462.00	24.54	18.827						
0.40	3.64	462.0	609.84	24.65	24.735						
0.45	4.09	387.0	510.84	24.77	20.622						
0.50	4.55	333.0	439.56	24.89	17.660						

UNCONFINED COMPRESSION TEST RESULTS							
PROJECT	: BACHELOR RESEARCH						
LOCATION	: SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY						
SAMPLE	: #1 (C9% - 7 DAYS)						
NO. SAMPLE	: -						
TESTING METHOD	: ASTM D 2166-06			MADE	:		
LABORATORY	: HASANUDDIN UNIVERSITY			TESTED BY	: RULY SULTAN SIAHAAN		
				DATE	: APRIL 2022		
Sample Depth	-		m	Index Properties	Weight of Wet Soil	417.50	gram
Sample Size	Diameter, d	5.50	cm		Weight of Dry Soil	391.80	gram
	Height, h	11.00	cm		Water Content	6.56	%
	Volume	261.34	cm ³		Dry Unit Weight	1.499	gram/cm ³
	Area, A _o	23.76	cm ²	Proving Ring Calibration		1.32	kg/div

Axial Deformation		Axial Load & Stress				Axial Deformation		Axial Load & Stress			
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	23.76	0.000						
0.05	0.45	12.0	15.79	23.87	0.662						
0.10	0.91	25.0	32.90	23.98	1.372						
0.15	1.36	64.0	84.22	24.09	3.497						
0.20	1.82	103.0	135.55	24.20	5.602						
0.25	2.27	145.0	190.82	24.31	7.849						
0.30	2.73	190.0	250.04	24.42	10.237						
0.35	3.18	230.0	302.68	24.54	12.335						
0.40	3.64	272.0	357.95	24.65	14.519						
0.45	4.09	309.0	406.64	24.77	16.416						
0.50	4.55	355.0	467.18	24.89	18.770						
0.55	5.00	397.0	522.45	25.01	20.891						
0.60	5.45	435.0	572.46	25.13	22.781						
0.65	5.91	287.0	377.69	25.25	14.958						
0.70	6.36	94.0	123.70	25.37	4.875						

UNCONFINED COMPRESSION TEST RESULTS							
PROJECT	: BACHELOR RESEARCH						
LOCATION	: SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY						
SAMPLE	: #1 (C9% - 14 DAYS)						
NO. SAMPLE	: -						
TESTING METHOD	: ASTM D 2166-06			MADE	:		
LABORATORY	: HASANUDDIN UNIVERSITY			TESTED BY	: RULY SULTAN SIAHAAN		
				DATE	: APRIL 2022		
Sample Depth	-		m	Index Properties	Weight of Wet Soil	409.50	gram
Sample Size	Diameter, d	5.50	cm		Weight of Dry Soil	391.72	gram
	Height, h	11.00	cm		Water Content	4.54	%
	Volume	261.34	cm ³		Dry Unit Weight	1.499	gram/cm ³
	Area, A _o	23.76	cm ²	Proving Ring Calibration		5.40	lbs/div

Axial Deformation		Axial Load & Stress				Axial Deformation		Axial Load & Stress			
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	23.76	0.000						
0.05	0.45	10.0	24.52	23.87	1.027						
0.10	0.91	34.0	83.35	23.98	3.477						
0.15	1.36	65.0	159.35	24.09	6.616						
0.20	1.82	87.0	213.29	24.20	8.814						
0.25	2.27	123.0	301.55	24.31	12.404						
0.30	2.73	154.0	377.55	24.42	15.458						
0.35	3.18	189.0	463.35	24.54	18.882						
0.40	3.64	232.0	568.77	24.65	23.069						
0.45	4.09	265.0	649.67	24.77	26.226						
0.50	4.55	289.0	708.51	24.89	28.466						
0.55	5.00	187.0	458.45	25.01	18.332						
				23.76							

UNCONFINED COMPRESSION TEST RESULTS													
PROJECT		: BACHELOR RESEARCH											
LOCATION		: SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY											
SAMPLE		: #1 (C9% - 28 DAYS)											
NO. SAMPLE		: -											
TESTING METHOD		: ASTM D 2166-06					MADE		:				
LABORATORY		: HASANUDDIN UNIVERSITY					TESTED BY		: RULY SULTAN SIAHAAN				
							DATE		: APRIL 2022				
Sample Depth		-		m		Index Properties		Weight of Wet Soil		389.00 gram			
Sample Size		Diameter, d		5.45 cm				Weight of Dry Soil		380.92 gram			
		Height, h		10.90 cm				Water Content		2.12 %			
		Volume		254.28 cm ³				Dry Unit Weight		1.498 gram/cm ³			
		Area, Ao		23.33 cm ²		Proving Ring Calibration				5.40 lbs/div			
Axial Deformation		Axial Load & Stress				Axial Deformation		Axial Load & Stress					
Disp. Reading		Axial Load		Axial Stress		Disp. Reading		Axial Load		Axial Stress			
Axial Strain		Axial Stress		Corrected Area		Axial Strain		Axial Stress		Corrected Area			
Stress		Stress		Stress		Stress		Stress		Stress			
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$		$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$		
(cm)	(%)	(div)	(kg)	(cm ²)		(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)		
0.00	0.00	0.0	0.00	23.33		0.000							
0.05	0.46	2.0	4.90	23.44		0.209							
0.10	0.92	4.0	9.81	23.54		0.417							
0.15	1.38	20.0	49.03	23.65		2.073							
0.20	1.83	50.0	122.58	23.76		5.158							
0.25	2.29	109.0	267.22	23.88		11.192							
0.30	2.75	176.0	431.48	23.99		17.987							
0.35	3.21	287.0	703.61	24.10		29.193							
0.40	3.67	321.0	786.96	24.22		32.496							
0.45	4.13	278.0	681.54	24.33		28.009							
0.50	4.59	224.0	549.16	24.45		22.461							

UNCONFINED COMPRESSION TEST RESULTS													
PROJECT		: BACHELOR RESEARCH											
LOCATION		: SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY											
SAMPLE		: #1 (C3% - EPS 0.5% - 7 DAYS)											
NO. SAMPLE		: #1											
TESTING METHOD		: ASTM D 2166-06					MADE		:				
LABORATORY		: HASANUDDIN UNIVERSITY					TESTED BY		: RULY SULTAN SIAHAAN				
							DATE		: APRIL 2022				
Sample Depth		-		m		Index Properties		Weight of Wet Soil		385.00 gram			
Sample Size		Diameter, d		5.77 cm				Weight of Dry Soil		358.29 gram			
		Height, h		11.54 cm				Water Content		7.46 %			
		Volume		301.60 cm ³				Dry Unit Weight		1.188 gram/cm ³			
		Area, Ao		26.15 cm ²		Proving Ring Calibration				5.40 lbs/div			
Axial Deformation		Axial Load & Stress				Axial Deformation		Axial Load & Stress					
Disp. Reading		Axial Load		Axial Stress		Disp. Reading		Axial Load		Axial Stress			
Axial Strain		Axial Stress		Corrected Area		Axial Strain		Axial Stress		Corrected Area			
Stress		Stress		Stress		Stress		Stress		Stress			
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$		$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$		
(cm)	(%)	(div)	(kg)	(cm ²)		(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)		
0.00	0.00	0.0	0.00	26.15		0.000	0.16	1.40	10.8	26.48	26.52		
0.01	0.10	1.3	3.19	26.17		0.122							
0.02	0.19	2.0	4.90	26.20		0.187							
0.03	0.29	3.1	7.60	26.22		0.290							
0.04	0.38	4.0	9.81	26.25		0.374							
0.06	0.48	5.5	13.48	26.27		0.513							
0.07	0.57	6.5	15.94	26.30		0.606							
0.08	0.67	7.5	18.39	26.32		0.698							
0.09	0.76	9.0	22.06	26.35		0.837							
0.10	0.86	9.9	24.27	26.37		0.920							
0.11	0.95	11.0	26.97	26.40		1.022							
0.12	1.05	11.8	28.93	26.43		1.095							
0.13	1.14	12.5	30.65	26.45		1.159							
0.14	1.24	12.6	30.89	26.48		1.167							
0.15	1.33	12.7	31.14	26.50		1.175							

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C3% - EPS 0.5% - 14 DAYS)			
NO. SAMPLE	:	#1	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth	-	m	Index Properties	Weight of Wet Soil	372.00	gram
Sample Size	Diameter, d	5.71	cm	Weight of Dry Soil	348.09	gram
	Height, h	11.44	cm	Water Content	6.87	%
	Volume	292.95	cm ³	Dry Unit Weight	1.188	gram/cm ³
	Area, A _o	25.61	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.61	0.000	0.16	1.41	18.0	44.13	25.97	1.699
0.01	0.10	1.2	2.94	25.63	0.115	0.17	1.50	24.5	60.06	26.00	2.310
0.02	0.19	2.2	5.39	25.66	0.210	0.18	1.60	28.5	69.87	26.02	2.685
0.03	0.29	2.9	7.11	25.68	0.277	0.19	1.70	25.4	62.27	26.05	2.391
0.04	0.38	3.2	7.85	25.71	0.305	0.21	1.79	22.4	54.92	26.07	2.106
0.06	0.48	3.8	9.32	25.73	0.362	0.22	1.89	20.0	49.03	26.10	1.879
0.07	0.58	5.0	12.26	25.76	0.476						
0.08	0.67	6.5	15.94	25.78	0.618						
0.09	0.77	7.5	18.39	25.81	0.713						
0.10	0.87	9.2	22.55	25.83	0.873						
0.11	0.96	11.3	27.70	25.86	1.071						
0.12	1.06	12.0	29.42	25.88	1.137						
0.13	1.15	12.8	31.38	25.91	1.211						
0.14	1.25	13.5	33.10	25.93	1.276						
0.15	1.35	15.5	38.00	25.96	1.464						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C3% - EPS 0.5% - 28 DAYS)			
NO. SAMPLE	:	#1	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth	-	m	Index Properties	Weight of Wet Soil	360.00	gram
Sample Size	Diameter, d	5.73	cm	Weight of Dry Soil	346.43	gram
	Height, h	11.38	cm	Water Content	3.92	%
	Volume	293.34	cm ³	Dry Unit Weight	1.181	gram/cm ³
	Area, A _o	25.80	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.80	0.000	0.15	1.32	20.5	50.26	26.14	1.923
0.01	0.09	0.5	1.23	25.82	0.047	0.16	1.41	22.5	55.16	26.16	2.108
0.02	0.18	1.5	3.68	25.84	0.142	0.17	1.49	24.1	59.08	26.19	2.256
0.03	0.26	2.0	4.90	25.87	0.190	0.18	1.58	26.0	63.74	26.21	2.432
0.04	0.35	3.0	7.35	25.89	0.284	0.19	1.67	30.0	73.55	26.23	2.803
0.05	0.44	5.0	12.26	25.91	0.473	0.20	1.76	26.5	64.97	26.26	2.474
0.06	0.53	6.0	14.71	25.93	0.567	0.21	1.85	24.1	59.11	26.28	2.249
0.07	0.62	8.0	19.61	25.96	0.756	0.22	1.93	23.2	56.88	26.31	2.162
0.08	0.70	9.5	23.29	25.98	0.896	0.23					
0.09	0.79	11.0	26.97	26.00	1.037	0.24					
0.10	0.88	13.0	31.87	26.03	1.225	0.25					
0.11	0.97	15.0	36.77	26.05	1.412	0.26					
0.12	1.05	16.0	39.23	26.07	1.505	0.27					
0.13	1.14	18.0	44.13	26.10	1.691	0.28					
0.14	1.23	20.0	49.03	26.12	1.877	0.29					

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C5% - EPS 0.5% - 7 DAYS)			
NO. SAMPLE	:	#1	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth	-	m	Index Properties	Weight of Wet Soil	377.00	gram
Sample Size	Diameter, d	5.71	cm	Weight of Dry Soil	347.60	gram
	Height, h	11.41	cm	Water Content	8.46	%
	Volume	292.29	cm ³	Dry Unit Weight	1.189	gram/cm ³
	Area, A _o	25.64	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.64	0.000	0.15	1.32	38.1	93.41	25.98	3.595
0.01	0.09	1.1	2.70	25.66	0.105	0.16	1.40	39.5	96.84	26.00	3.724
0.02	0.18	2.0	4.90	25.68	0.191	0.17	1.49	39.2	96.10	26.02	3.693
0.03	0.26	3.9	9.56	25.70	0.372	0.18	1.58	39.0	95.61	26.05	3.671
0.04	0.35	6.0	14.71	25.73	0.572	0.19	1.67	38.1	93.41	26.07	3.583
0.05	0.44	9.1	22.31	25.75	0.866	0.20	1.75	37.0	90.71	26.09	3.476
0.06	0.53	12.0	29.42	25.77	1.141						
0.07	0.61	15.0	36.77	25.80	1.426						
0.08	0.70	19.0	46.58	25.82	1.804						
0.09	0.79	23.7	58.10	25.84	2.248						
0.10	0.88	26.5	64.97	25.86	2.512						
0.11	0.96	28.9	70.85	25.89	2.737						
0.12	1.05	33.0	80.90	25.91	3.122						
0.13	1.14	35.2	86.30	25.93	3.328						
0.14	1.23	37.5	91.94	25.96	3.542						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C5% - EPS 0.5% - 14 DAYS)			
NO. SAMPLE	:	#1	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth	-	m	Index Properties	Weight of Wet Soil	370.00	gram
Sample Size	Diameter, d	5.68	cm	Weight of Dry Soil	344.44	gram
	Height, h	11.45	cm	Water Content	7.42	%
	Volume	290.24	cm ³	Dry Unit Weight	1.187	gram/cm ³
	Area, A _o	25.37	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.37	0.000	0.15	1.31	43.0	105.42	25.71	4.101
0.01	0.09	3.5	8.58	25.39	0.338	0.16	1.40	41.0	100.52	25.73	3.907
0.02	0.17	9.0	22.06	25.41	0.868	0.17	1.49	36.0	88.26	25.75	3.427
0.03	0.26	14.0	34.32	25.44	1.349	0.18	1.57	34.0	83.35	25.77	3.234
0.04	0.35	21.0	51.48	25.46	2.022	0.19	1.66	32.0	78.45	25.80	3.041
0.05	0.44	29.0	71.10	25.48	2.790	0.20	1.75				
0.06	0.52	37.0	90.71	25.50	3.557	0.21	1.83				
0.07	0.61	45.0	110.32	25.52	4.322	0.22	1.92				
0.08	0.70	52.0	127.48	25.55	4.990	0.23	2.01				
0.09	0.79	57.0	139.74	25.57	5.465	0.24	2.10				
0.10	0.87	61.0	149.55	25.59	5.843	0.25	2.18				
0.11	0.96	63.0	154.45	25.61	6.030	0.26	2.27				
0.12	1.05	60.0	147.10	25.64	5.738	0.27	2.36				
0.13	1.14	54.0	132.39	25.66	5.159	0.28	2.45				
0.14	1.22	46.0	112.77	25.68	4.391	0.29	2.53				

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C5% - EPS 0.5% - 28 DAYS)			
NO. SAMPLE	:	#1	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth	-	m	Index Properties	Weight of Wet Soil	363.00	gram
Sample Size	Diameter, d	5.76	cm	Weight of Dry Soil	349.32	gram
	Height, h	11.28	cm	Water Content	3.92	%
	Volume	294.15	cm ³	Dry Unit Weight	1.188	gram/cm ³
	Area, Ao	26.08	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	26.08	0.000	0.15	1.33	45.0	110.32	26.43	4.173
0.01	0.09	1.5	3.68	26.11	0.141	0.16	1.42	39.0	95.61	26.46	3.614
0.02	0.18	6.0	14.71	26.13	0.563	0.17					
0.03	0.27	10.0	24.52	26.15	0.937	0.18					
0.04	0.35	15.0	36.77	26.18	1.405	0.19					
0.05	0.44	21.0	51.48	26.20	1.965	0.20					
0.06	0.53	26.0	63.74	26.22	2.431	0.21					
0.07	0.62	34.0	83.35	26.25	3.176	0.22					
0.08	0.71	41.0	100.52	26.27	3.826	0.23					
0.09	0.80	50.0	122.58	26.29	4.662	0.24					
0.10	0.89	58.0	142.19	26.32	5.403	0.25					
0.11	0.97	63.0	154.45	26.34	5.864	0.26					
0.12	1.06	66.0	161.81	26.36	6.138	0.27					
0.13	1.15	59.0	144.64	26.39	5.482	0.28					
0.14	1.24	49.0	120.13	26.41	4.549	0.29					

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C7% - EPS 0.5% - 7 DAYS)			
NO. SAMPLE	:	#1	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth	-	m	Index Properties	Weight of Wet Soil	398.00	gram
Sample Size	Diameter, d	5.75	cm	Weight of Dry Soil	354.34	gram
	Height, h	11.47	cm	Water Content	12.32	%
	Volume	297.54	cm ³	Dry Unit Weight	1.191	gram/cm ³
	Area, Ao	25.96	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.96	0.000	0.21	1.83	55.3	135.57	26.44	5.127
0.01	0.09	1.0	2.45	25.98	0.094	0.22	1.92	53.5	131.16	26.46	4.956
0.02	0.17	2.0	4.90	26.00	0.189	0.23	2.01	52.6	128.95	26.49	4.868
0.03	0.26	3.3	8.09	26.03	0.311	0.24	2.09	51.5	126.26	26.51	4.762
0.04	0.35	5.0	12.26	26.05	0.471						
0.05	0.44	7.2	17.65	26.07	0.677						
0.06	0.52	9.0	22.06	26.09	0.846						
0.07	0.61	12.3	30.15	26.12	1.155						
0.08	0.70	14.0	34.32	26.14	1.313						
0.09	0.78	17.5	42.90	26.16	1.640						
0.10	0.87	22.0	53.94	26.19	2.060						
0.11	0.96	26.5	64.97	26.21	2.479						
0.12	1.05	30.0	73.55	26.23	2.804						
0.13	1.13	35.4	86.79	26.25	3.306						
0.14	1.22	40.0	98.06	26.28	3.732						
0.15	1.31	43.3	106.15	26.30	4.036						
0.16	1.40	48.0	117.68	26.32	4.470						
0.17	1.48	53.0	129.93	26.35	4.932						
0.18	1.57	55.0	134.84	26.37	5.113						
0.19	1.66	57.6	141.21	26.39	5.350						
0.20	1.74	56.0	137.29	26.42	5.197						

UNCONFINED COMPRESSION TEST RESULTS

PROJECT	:	BACHELOR RESEARCH	MADE	:	
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY	TESTED BY	:	RULY SULTAN SIAHAAN
SAMPLE	:	#1 (C7% - EPS 0.5% - 14 DAYS)	DATE	:	APRIL 2022
NO. SAMPLE	:	#1			
TESTING METHOD	:	ASTM D 2166-06			
LABORATORY	:	HASANUDDIN UNIVERSITY			

Sample Depth	-	m	Index Properties	Weight of Wet Soil	380.00	gram
Sample Size	Diameter, d	5.71		Weight of Dry Soil	348.67	gram
	Height, h	11.44		Water Content	8.99	%
	Volume	292.34		Dry Unit Weight	1.193	gram/cm ³
	Area, A _o	25.57	Proving Ring Calibration		5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = A _o /(1-ε)	σ = P/A	δh	ε = δh/h	-	P	A = A _o /(1-ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.57	0.000	0.21	1.84	80.5	197.35	26.05	7.577
0.01	0.09	1.0	2.45	25.59	0.096	0.22	1.92	82.4	202.01	26.07	7.749
0.02	0.17	2.1	5.15	25.61	0.201	0.23	2.01	82.2	201.52	26.09	7.724
0.03	0.26	3.0	7.35	25.63	0.287	0.24	2.10	81.5	199.81	26.12	7.651
0.04	0.35	5.2	12.75	25.66	0.497	0.25	2.19	80.5	197.35	26.14	7.550
0.05	0.44	7.5	18.39	25.68	0.716	0.26	2.27	79.2	194.17	26.16	7.422
0.06	0.52	10.0	24.52	25.70	0.954						
0.07	0.61	12.5	30.65	25.72	1.191						
0.08	0.70	14.3	35.06	25.75	1.362						
0.09	0.79	17.5	42.90	25.77	1.665						
0.10	0.87	22.0	53.94	25.79	2.091						
0.11	0.96	26.6	65.21	25.82	2.526						
0.12	1.05	30.1	73.79	25.84	2.856						
0.13	1.14	36.0	88.26	25.86	3.413						
0.14	1.22	43.5	106.64	25.88	4.120						
0.15	1.31	49.5	121.35	25.91	4.684						
0.16	1.40	55.3	135.57	25.93	5.228						
0.17	1.49	59.7	146.36	25.95	5.639						
0.18	1.57	64.5	158.13	25.98	6.087						
0.19	1.66	70.3	172.35	26.00	6.629						
0.20	1.75	75.5	185.10	26.02	7.113						

UNCONFINED COMPRESSION TEST RESULTS

PROJECT	:	BACHELOR RESEARCH	MADE	:	
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY	TESTED BY	:	RULY SULTAN SIAHAAN
SAMPLE	:	#1 (C7% - EPS 0.5% - 28 DAYS)	DATE	:	APRIL 2022
NO. SAMPLE	:	#1			
TESTING METHOD	:	ASTM D 2166-06			
LABORATORY	:	HASANUDDIN UNIVERSITY			

Sample Depth	-	m	Index Properties	Weight of Wet Soil	368.50	gram
Sample Size	Diameter, d	5.72		Weight of Dry Soil	354.94	gram
	Height, h	11.45		Water Content	3.82	%
	Volume	294.37		Dry Unit Weight	1.206	gram/cm ³
	Area, A _o	25.72	Proving Ring Calibration		5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = A _o /(1-ε)	σ = P/A	δh	ε = δh/h	-	P	A = A _o /(1-ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.72	0.000	0.21	1.83	79.8	195.64	26.20	7.468
0.01	0.09	2.0	4.90	25.74	0.190	0.22	1.92	84.5	207.16	26.22	7.901
0.02	0.17	3.5	8.58	25.76	0.333	0.23	2.01	87.8	215.25	26.24	8.202
0.03	0.26	4.6	11.28	25.78	0.437	0.24	2.10	90.5	221.87	26.27	8.447
0.04	0.35	6.5	15.94	25.81	0.617	0.25	2.18	89.2	218.68	26.29	8.318
0.05	0.44	7.8	19.12	25.83	0.740	0.26	2.27	88.5	216.97	26.31	8.245
0.06	0.52	10.1	24.76	25.85	0.958						
0.07	0.61	12.5	30.65	25.88	1.184						
0.08	0.70	14.3	35.06	25.90	1.354						
0.09	0.79	18.5	45.35	25.92	1.750						
0.10	0.87	23.3	57.12	25.94	2.202						
0.11	0.96	27.6	67.66	25.97	2.606						
0.12	1.05	32.2	78.94	25.99	3.037						
0.13	1.14	37.5	91.94	26.01	3.534						
0.14	1.22	44.5	109.10	26.04	4.190						
0.15	1.31	50.2	123.07	26.06	4.723						
0.16	1.40	57.5	140.97	26.08	5.405						
0.17	1.48	60.1	147.34	26.10	5.644						
0.18	1.57	65.0	159.35	26.13	6.099						
0.19	1.66	70.0	171.61	26.15	6.562						
0.20	1.75	74.3	182.15	26.17	6.959						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C9% - EPS 0.5% - 7 DAYS)			
NO. SAMPLE	:	#1	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth	-	m	Index Properties	Weight of Wet Soil	399.00	gram
Sample Size	Diameter, d	5.72	cm	Weight of Dry Soil	356.81	gram
	Height, h	11.52	cm	Water Content	11.82	%
	Volume	295.73	cm ³	Dry Unit Weight	1.207	gram/cm ³
	Area, A _o	25.68	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A	δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.68	0.000	0.21	1.82	60.0	147.10	26.15	5.624
0.01	0.09	1.0	2.45	25.70	0.095	0.22	1.91	55.0	134.84	26.18	5.151
0.02	0.17	1.5	3.68	25.72	0.143	0.23	2.00	53.0	129.93	26.20	4.959
0.03	0.26	2.5	6.13	25.74	0.238	0.24	2.08	51.0	125.03	26.22	4.768
0.04	0.35	4.0	9.81	25.77	0.381	0.25	2.17	49.0	120.13	26.25	4.577
0.05	0.43	5.0	12.26	25.79	0.475						
0.06	0.52	7.0	17.16	25.81	0.665						
0.07	0.61	10.0	24.52	25.83	0.949						
0.08	0.69	13.5	33.10	25.86	1.280						
0.09	0.78	17.0	41.68	25.88	1.610						
0.10	0.87	23.5	57.61	25.90	2.224						
0.11	0.95	30.0	73.55	25.92	2.837						
0.12	1.04	38.0	93.16	25.95	3.590						
0.13	1.13	46.0	112.77	25.97	4.342						
0.14	1.21	54.0	132.39	25.99	5.093						
0.15	1.30	62.0	152.00	26.02	5.843						
0.16	1.39	70.0	171.61	26.04	6.591						
0.17	1.48	76.0	186.32	26.06	7.149						
0.18	1.56	81.0	198.58	26.08	7.613						
0.19	1.65	73.0	178.97	26.11	6.855						
0.20	1.74	67.0	164.26	26.13	6.286						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C9% - EPS 0.5% - 14 DAYS)			
NO. SAMPLE	:	#1	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth	-	m	Index Properties	Weight of Wet Soil	382.00	gram
Sample Size	Diameter, d	5.74	cm	Weight of Dry Soil	350.14	gram
	Height, h	11.23	cm	Water Content	9.10	%
	Volume	290.03	cm ³	Dry Unit Weight	1.207	gram/cm ³
	Area, A _o	25.85	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A	δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.85	0.000	0.21	1.87	95.2	233.39	26.34	8.861
0.01	0.09	1.0	2.45	25.87	0.095	0.22	1.96	98.0	240.26	26.36	9.113
0.02	0.18	2.0	4.90	25.89	0.189	0.23	2.05	94.5	231.68	26.39	8.780
0.03	0.27	3.2	7.85	25.92	0.303	0.24	2.14	93.0	228.00	26.41	8.633
0.04	0.36	4.0	9.81	25.94	0.378	0.25	2.23	90.0	220.64	26.44	8.346
0.05	0.45	6.2	15.20	25.96	0.585	0.26	2.32	85.0	208.39	26.46	7.876
0.06	0.53	7.0	17.16	25.99	0.660	0.27	2.40	78.0	191.22	26.48	7.220
0.07	0.62	9.5	23.29	26.01	0.895	0.28	2.49	74.0	181.42	26.51	6.844
0.08	0.71	12.5	30.65	26.03	1.177						
0.09	0.80	15.3	37.51	26.06	1.440						
0.10	0.89	22.0	53.94	26.08	2.068						
0.11	0.98	27.8	68.15	26.10	2.611						
0.12	1.07	34.0	83.35	26.13	3.190						
0.13	1.16	43.0	105.42	26.15	4.031						
0.14	1.25	50.0	122.58	26.17	4.683						
0.15	1.34	59.0	144.64	26.20	5.521						
0.16	1.43	66.0	161.81	26.22	6.171						
0.17	1.51	74.5	182.64	26.24	6.959						
0.18	1.60	83.0	203.48	26.27	7.746						
0.19	1.69	88.5	216.97	26.29	8.252						
0.20	1.78	93.0	228.00	26.32	8.664						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C9% - EPS 0.5% - 28 DAYS)			
NO. SAMPLE	:	7	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth		-	m	Index Properties	Weight of Wet Soil	371.00	gram
Sample Size	Diameter, d	5.73	cm		Weight of Dry Soil	357.96	gram
	Height, h	11.37	cm		Water Content	3.64	%
	Volume	292.89	cm ³		Dry Unit Weight	1.222	gram/cm ³
	Area, A _o	25.78	cm ²	Proving Ring Calibration		5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.78	0.000	0.21	1.85	106.2	260.36	26.26	9.914
0.01	0.09	1.0	2.45	25.80	0.095	0.22	1.94	103.2	253.01	26.29	9.625
0.02	0.18	3.0	7.35	25.82	0.285	0.23	2.02	98.5	241.48	26.31	9.179
0.03	0.26	4.2	10.30	25.85	0.398	0.24					
0.04	0.35	6.5	15.94	25.87	0.616	0.25					
0.05	0.44	7.8	19.12	25.89	0.739	0.26					
0.06	0.53	11.0	26.97	25.91	1.041	0.27					
0.07	0.62	13.4	32.85	25.94	1.267	0.28					
0.08	0.70	15.6	38.24	25.96	1.473	0.29					
0.09	0.79	22.0	53.94	25.98	2.076	0.30					
0.10	0.88	26.0	63.74	26.01	2.451	0.31					
0.11	0.97	32.5	79.68	26.03	3.061	0.32					
0.12	1.06	36.7	89.97	26.05	3.454	0.33					
0.13	1.14	44.5	109.10	26.08	4.184	0.34					
0.14	1.23	53.5	131.16	26.10	5.026	0.35					
0.15	1.32	62.6	153.47	26.12	5.875	0.36					
0.16	1.41	70.2	172.10	26.14	6.583	0.37					
0.17	1.50	77.8	190.73	26.17	7.289	0.38					
0.18	1.58	87.6	214.76	26.19	8.200	0.39					
0.19	1.67	95.6	234.37	26.22	8.940	0.40					
0.20	1.76	98.0	240.26	26.24	9.157	0.41					

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C3% - EPS 0.75% - 7 DAYS)			
NO. SAMPLE	:	#1	MADE	:	
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	:	RULY SULTAN SIAHAAN
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	:	APRIL 2022

Sample Depth		-	m	Index Properties	Weight of Wet Soil	343.00	gram
Sample Size	Diameter, d	5.73	cm		Weight of Dry Soil	311.07	gram
	Height, h	11.57	cm		Water Content	10.26	%
	Volume	298.14	cm ³		Dry Unit Weight	1.043	gram/cm ³
	Area, A _o	25.78	cm ²	Proving Ring Calibration		5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.78	0.000	0.30	2.59	0.0	0.00	26.46	0.000
0.02	0.17	1.0	2.45	25.82	0.095	0.32					
0.04	0.35	2.0	4.90	25.87	0.190	0.34					
0.06	0.52	3.0	7.35	25.91	0.284	0.36					
0.08	0.69	3.5	8.58	25.96	0.331	0.38					
0.10	0.86	4.5	11.03	26.00	0.424	0.40					
0.12	1.04	6.0	14.71	26.05	0.565						
0.14	1.21	7.0	17.16	26.09	0.658						
0.16	1.38	7.5	18.39	26.14	0.703						
0.18	1.56	7.0	17.16	26.18	0.655						
0.20	1.73	5.0	12.26	26.23	0.467						
0.22	1.90	4.0	9.81	26.28	0.373						
0.24	2.07	3.0	7.35	26.32	0.279						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C3% - EPS 0.75% - 14 DAYS)			
NO. SAMPLE	:	#1	MADE		
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	: RULY SULTAN SIAHAAN	
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	: APRIL 2022	

Sample Depth	-		m	Index Properties	Weight of Wet Soil	326.00	gram
Sample Size	Diameter, d	5.77	cm		Weight of Dry Soil	309.81	gram
	Height, h	11.36	cm		Water Content	5.23	%
	Volume	297.03	cm ³		Dry Unit Weight	1.043	gram/cm ³
	Area, Ao	26.17	cm ²	Proving Ring Calibration	5.40	lbs/div	

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = Ao/(1- ε)	σ = P/A	δh	ε = δh/h	-	P	A = Ao/(1- ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	26.17	0.000						
0.02	0.18	1.0	2.45	26.21	0.094						
0.04	0.35	2.0	4.90	26.26	0.187						
0.06	0.53	3.5	8.58	26.31	0.326						
0.08	0.70	5.0	12.26	26.35	0.465						
0.10	0.88	7.0	17.16	26.40	0.650						
0.12	1.06	9.5	23.29	26.45	0.881						
0.14	1.23	12.0	29.42	26.49	1.110						
0.16	1.41	14.0	34.32	26.54	1.293						
0.18	1.58	15.5	38.00	26.59	1.429						
0.20	1.76	16.0	39.23	26.64	1.473						
0.22	1.94	15.0	36.77	26.69	1.378						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C3% - EPS 0.75% - 28 DAYS)			
NO. SAMPLE	:	#1	MADE		
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	: RULY SULTAN SIAHAAN	
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	: APRIL 2022	

Sample Depth	-		m	Index Properties	Weight of Wet Soil	318.00	gram
Sample Size	Diameter, d	5.71	cm		Weight of Dry Soil	306.45	gram
	Height, h	11.54	cm		Water Content	3.77	%
	Volume	295.50	cm ³		Dry Unit Weight	1.037	gram/cm ³
	Area, Ao	25.61	cm ²	Proving Ring Calibration	5.40	lbs/div	

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = Ao/(1- ε)	σ = P/A	δh	ε = δh/h	-	P	A = Ao/(1- ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.61	0.000						
0.01	0.09	2.0	4.90	25.63	0.191						
0.02	0.17	4.0	9.81	25.66	0.382						
0.03	0.26	7.0	17.16	25.68	0.668						
0.04	0.35	10.5	25.74	25.70	1.002						
0.05	0.43	15.0	36.77	25.72	1.430						
0.06	0.52	20.0	49.03	25.75	1.904						
0.07	0.61	23.0	56.39	25.77	2.188						
0.08	0.69	26.5	64.97	25.79	2.519						
0.09	0.78	28.0	68.64	25.81	2.659						
0.10	0.87	28.5	69.87	25.84	2.704						
0.11	0.95	27.0	66.19	25.86	2.560						
0.12	1.04	24.0	58.84	25.88	2.273						
0.13	1.13	23.0	56.39	25.90	2.177						
0.14	1.21	22.5	55.16	25.93	2.128						
0.15	1.30	22.0	53.94	25.95	2.078						
0.16	1.39	21.0	51.48	25.97	1.982						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C5% - EPS 0.75% - 7 DAYS)			
NO. SAMPLE	:	#1	MADE		
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	: RULY SULTAN SIAHAAN	
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	: APRIL 2022	

Sample Depth	-	m	Index Properties	Weight of Wet Soil	362.00	gram
Sample Size	Diameter, d	5.74		Weight of Dry Soil	312.82	gram
	Height, h	11.59		Water Content	15.72	%
	Volume	299.38		Dry Unit Weight	1.045	gram/cm ³
	Area, A _o	25.84	Proving Ring Calibration		5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A	δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.84	0.000						
0.02	0.17	1.5	3.68	25.88	0.142						
0.04	0.35	3.0	7.35	25.93	0.284						
0.06	0.52	5.0	12.26	25.97	0.472						
0.08	0.69	7.0	17.16	26.02	0.660						
0.10	0.86	9.5	23.29	26.06	0.894						
0.12	1.04	11.5	28.19	26.11	1.080						
0.14	1.21	13.0	31.87	26.15	1.219						
0.16	1.38	16.0	39.23	26.20	1.497						
0.18	1.55	17.5	42.90	26.24	1.635						
0.20	1.73	18.0	44.13	26.29	1.679						
0.22	1.90	18.5	45.35	26.34	1.722						
0.24	2.07	19.0	46.58	26.38	1.766						
0.26	2.24	18.0	44.13	26.43	1.670						
0.28	2.42	17.0	41.68	26.48	1.574						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C5% - EPS 0.75% - 14 DAYS)			
NO. SAMPLE	:	#1	MADE		
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	: RULY SULTAN SIAHAAN	
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	: APRIL 2022	

Sample Depth	-	m	Index Properties	Weight of Wet Soil	334.00	gram
Sample Size	Diameter, d	5.72		Weight of Dry Soil	308.05	gram
	Height, h	11.47		Water Content	8.43	%
	Volume	294.71		Dry Unit Weight	1.045	gram/cm ³
	Area, A _o	25.71	Proving Ring Calibration		5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A	δh	ε = δh/h	-	P	A = A _o /(1 - ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.71	0.000						
0.01	0.09	1.5	3.68	25.73	0.143						
0.02	0.17	8.5	20.84	25.75	0.809						
0.03	0.26	11.0	26.97	25.77	1.046						
0.04	0.35	13.5	33.10	25.80	1.283						
0.05	0.44	15.5	38.00	25.82	1.472						
0.06	0.52	17.5	42.90	25.84	1.660						
0.07	0.61	22.0	53.94	25.86	2.085						
0.08	0.70	21.4	52.46	25.89	2.027						
0.09	0.78	20.7	50.75	25.91	1.959						
0.10	0.87	19.7	48.30	25.93	1.862						
0.11	0.96	19.0	46.58	25.96	1.795						
0.12	1.05	18.4	45.11	25.98	1.736						
0.13	1.13	17.5	42.90	26.00	1.650						
0.14	1.22	16.8	41.19	26.02	1.583						

UNCONFINED COMPRESSION TEST RESULTS

PROJECT : BACHELOR RESEARCH
 LOCATION : SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY
 SAMPLE : #1 (C5% - EPS 0.75% - 28 DAYS)
 NO. SAMPLE : #1
 TESTING METHOD : ASTM D 2166-06
 LABORATORY : HASANUDDIN UNIVERSITY
 MADE :
 TESTED BY : RULY SULTAN SIAHAAN
 DATE : APRIL 2022

Sample Depth	-	m	Index Properties	Weight of Wet Soil	318.00	gram
Sample Size	Diameter, d	5.71	cm	Weight of Dry Soil	307.57	gram
	Height, h	11.47	cm	Water Content	3.39	%
	Volume	293.80	cm ³	Dry Unit Weight	1.047	gram/cm ³
	Area, A _o	25.63	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.63	0.000						
0.01	0.09	1.0	2.45	25.65	0.096						
0.02	0.17	2.0	4.90	25.68	0.191						
0.03	0.26	3.0	7.35	25.70	0.286						
0.04	0.35	4.0	9.81	25.72	0.381						
0.05	0.44	5.0	12.26	25.74	0.476						
0.06	0.52	6.0	14.71	25.77	0.571						
0.07	0.61	9.0	22.06	25.79	0.856						
0.08	0.70	12.0	29.42	25.81	1.140						
0.09	0.78	14.0	34.32	25.83	1.329						
0.10	0.87	16.5	40.45	25.86	1.564						
0.11	0.96	18.0	44.13	25.88	1.705						
0.12	1.05	21.0	51.48	25.90	1.988						
0.13	1.13	24.0	58.84	25.93	2.269						
0.14	1.22	26.0	63.74	25.95	2.456						
0.15	1.31	27.0	66.19	25.97	2.549						
0.16	1.40	30.0	73.55	25.99	2.829						
0.17	1.48	29.5	72.32	26.02	2.780						
0.18	1.57	27.0	66.19	26.04	2.542						
0.19	1.66	19.0	46.58	26.06	1.787						

UNCONFINED COMPRESSION TEST RESULTS

PROJECT : BACHELOR RESEARCH
 LOCATION : SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY
 SAMPLE : #1 (C7% - EPS 0.75% - 7 DAYS)
 NO. SAMPLE : #1
 TESTING METHOD : ASTM D 2166-06
 LABORATORY : HASANUDDIN UNIVERSITY
 MADE :
 TESTED BY : RULY SULTAN SIAHAAN
 DATE : APRIL 2022

Sample Depth	-	m	Index Properties	Weight of Wet Soil	372.00	gram
Sample Size	Diameter, d	5.73	cm	Weight of Dry Soil	314.99	gram
	Height, h	11.59	cm	Water Content	18.10	%
	Volume	298.60	cm ³	Dry Unit Weight	1.055	gram/cm ³
	Area, A _o	25.78	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$	δh	$\epsilon = \delta h/h$	-	P	$A = A_o/(1 - \epsilon)$	$\sigma = P/A$
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.78	0.000	0.30	2.59	44.0	107.87	26.46	4.076
0.02	0.17	3.5	8.58	25.82	0.332	0.32	2.76	43.0	105.42	26.51	3.977
0.04	0.35	7.0	17.16	25.87	0.663	0.34	2.93	41.0	100.52	26.56	3.785
0.06	0.52	10.0	24.52	25.91	0.946	0.36	3.11	39.5	96.84	26.60	3.640
0.08	0.69	14.0	34.32	25.96	1.322	0.38					
0.10	0.86	18.0	44.13	26.00	1.697	0.40					
0.12	1.04	22.0	53.94	26.05	2.071						
0.14	1.21	26.0	63.74	26.09	2.443						
0.16	1.38	30.0	73.55	26.14	2.814						
0.18	1.55	35.0	85.81	26.18	3.277						
0.20	1.73	39.0	95.61	26.23	3.645						
0.22	1.90	41.0	100.52	26.28	3.825						
0.24	2.07	44.0	107.87	26.32	4.098						
0.26	2.24	45.5	111.55	26.37	4.230						
0.28	2.42	45.0	110.32	26.42	4.176						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C9% - EPS 0.75% - 7 DAYS)			
NO. SAMPLE	:	#1	MADE		
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	: RULY SULTAN SIAHAAN	
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	: APRIL 2022	

Sample Depth	-	m	Index Properties	Weight of Wet Soil	374.00	gram
Sample Size	Diameter, d	5.74	cm	Weight of Dry Soil	316.69	gram
	Height, h	11.59	cm	Water Content	18.10	%
	Volume	298.60	cm ³	Dry Unit Weight	1.061	gram/cm ³
	Area, Ao	25.84	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = Ao/(1-ε)	σ = P/A	δh	ε = δh/h	-	P	A = Ao/(1-ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.84	0.000	0.30	2.59	0.0	0.00	26.52	0.000
0.02	0.17	2.0	4.90	25.88	0.189	0.32					
0.04	0.35	4.0	9.81	25.93	0.378	0.34					
0.06	0.52	7.0	17.16	25.97	0.661	0.36					
0.08	0.69	13.5	33.10	26.02	1.272	0.38					
0.10	0.86	21.3	52.22	26.06	2.004	0.40					
0.12	1.04	28.5	69.87	26.11	2.676						
0.14	1.21	35.2	86.30	26.15	3.300						
0.16	1.38	41.2	101.01	26.20	3.855						
0.18	1.55	45.3	111.06	26.24	4.232						
0.20	1.73	49.7	121.84	26.29	4.635						
0.22	1.90	54.2	132.88	26.34	5.045						
0.24	2.07	53.0	129.93	26.38	4.925						
0.26	2.24	51.0	125.03	26.43	4.731						
0.28	2.42	50.2	123.07	26.48	4.648						

UNCONFINED COMPRESSION TEST RESULTS					
PROJECT	:	BACHELOR RESEARCH			
LOCATION	:	SOIL MECHANIC LABORATORY HASANUDDIN UNIVERSITY			
SAMPLE	:	#1 (C9% - EPS 0.75% - 14 DAYS)			
NO. SAMPLE	:	#1	MADE		
TESTING METHOD	:	ASTM D 2166-06	TESTED BY	: RU: RULY SULTAN SIAHAAN	
LABORATORY	:	HASANUDDIN UNIVERSITY	DATE	: AP: APRIL 2022	

Sample Depth	-	m	Index Properties	Weight of Wet Soil	350.00	gram
Sample Size	Diameter, d	5.75	cm	Weight of Dry Soil	312.17	gram
	Height, h	11.33	cm	Water Content	12.12	%
	Volume	294.17	cm ³	Dry Unit Weight	1.061	gram/cm ³
	Area, Ao	25.98	cm ²	Proving Ring Calibration	5.40	lbs/div

Axial		Axial Load & Stress				Axial		Axial Load & Stress			
Deformation		Axial Load		Axial Stress		Deformation		Axial Load		Axial Stress	
Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress	Disp. Reading	Axial Strain	Disp. Reading	Axial Stress	Corrected Area	Stress
δh	ε = δh/h	-	P	A = Ao/(1-ε)	σ = P/A	δh	ε = δh/h	-	P	A = Ao/(1-ε)	σ = P/A
(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)	(cm)	(%)	(div)	(kg)	(cm ²)	(kg/cm ²)
0.00	0.00	0.0	0.00	25.98	0.000	0.21	1.85	56.0	137.29	26.47	5.187
0.01	0.09	1.0	2.45	26.00	0.094	0.22	1.94	55.0	134.84	26.49	5.090
0.02	0.18	3.0	7.35	26.02	0.283	0.23	2.03	54.0	132.39	26.52	4.993
0.03	0.26	6.0	14.71	26.05	0.565	0.24	2.12	53.0	129.93	26.54	4.896
0.04	0.35	9.0	22.06	26.07	0.846						
0.05	0.44	13.0	31.87	26.09	1.221						
0.06	0.53	18.0	44.13	26.12	1.690						
0.07	0.62	23.0	56.39	26.14	2.157						
0.08	0.71	29.0	71.10	26.16	2.718						
0.09	0.79	36.0	88.26	26.19	3.371						
0.10	0.88	42.0	102.97	26.21	3.929						
0.11	0.97	48.0	117.68	26.23	4.486						
0.12	1.06	54.0	132.39	26.26	5.042						
0.13	1.15	56.0	137.29	26.28	5.224						
0.14	1.24	59.0	144.64	26.30	5.499						
0.15	1.32	60.0	147.10	26.33	5.588						
0.16	1.41	59.0	144.64	26.35	5.489						
0.17	1.50	58.0	142.19	26.37	5.392						
0.18	1.59	57.3	140.48	26.40	5.322						
0.19	1.68	57.2	140.23	26.42	5.308						
0.20	1.77	57.1	139.99	26.44	5.294						

Lampiran 2 Dokumentasi





