

The logo of Universitas Katolik Soegijapranata is a yellow shield-shaped emblem with a scalloped border. Inside the shield, there is a stylized white cross above an open book. The text "UNIVERSITAS KATOLIK" is written in a semi-circle at the top, and "SOEGIJAPRANATA" is written in a semi-circle at the bottom.

LAMPIRAN LA-1-2
HASIL PLAGIARISM CHECK DAN *SITE PLAN* LOKASI UJI
SPT BH1, BH2, BH3

PAPER NAME

TA-17.B1.0083.docx

WORD COUNT

24501 Words

CHARACTER COUNT

147275 Characters

PAGE COUNT

102 Pages

FILE SIZE

514.6KB

SUBMISSION DATE

Dec 12, 2022 3:23 PM GMT+7

REPORT DATE

Dec 12, 2022 3:26 PM GMT+7

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Summary



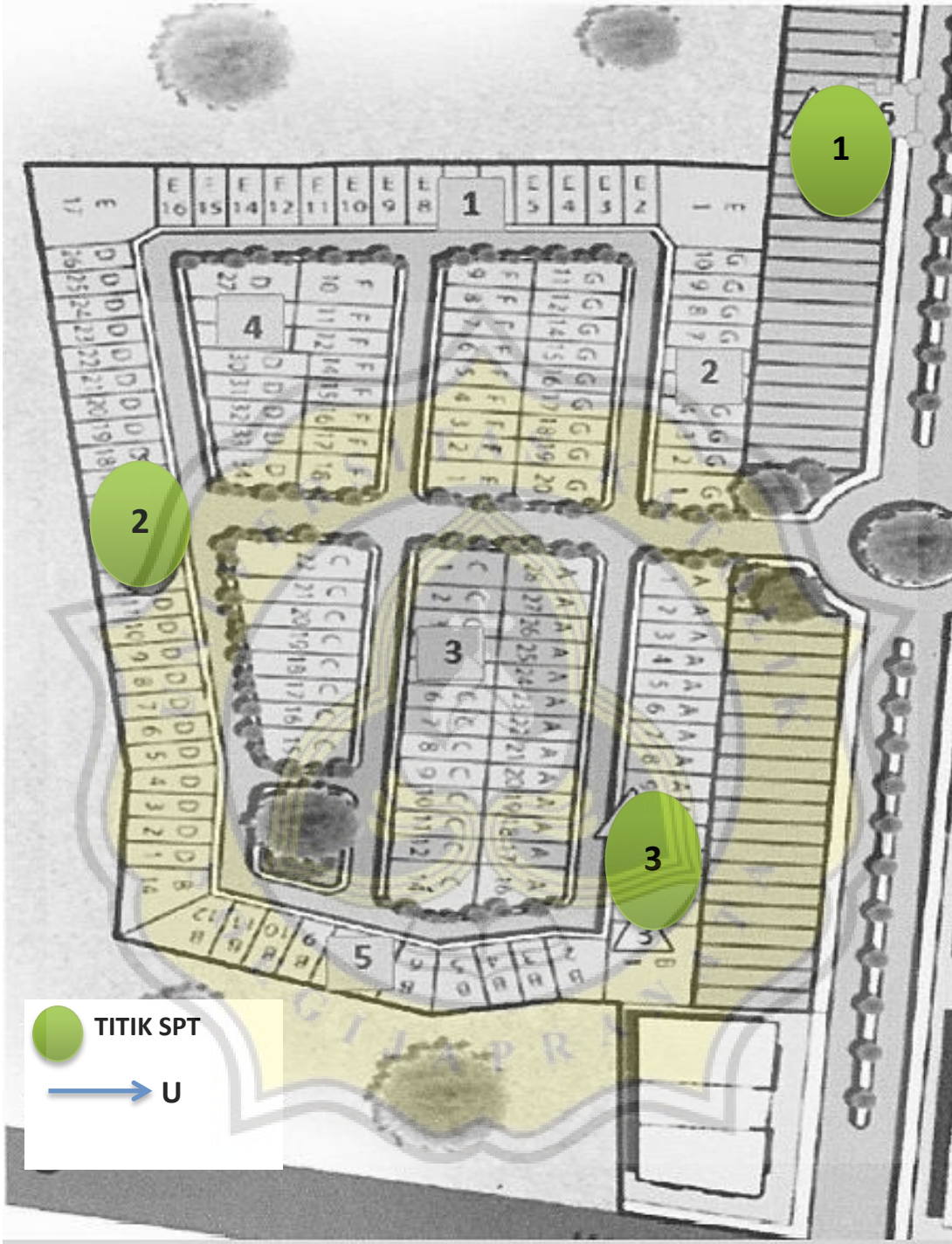
Tapas Akhir

Analisis Pelebaran Tanah Lunak Menggunakan *Predefined Vertical Drain*
Kombinasi *Facsimile* dan *Preloading* (Studi Kasus Pada Proyek N)
Di Perumahan Sinarang Timur

BAB I PENDAHULUAN

1.1 Latar Belakang

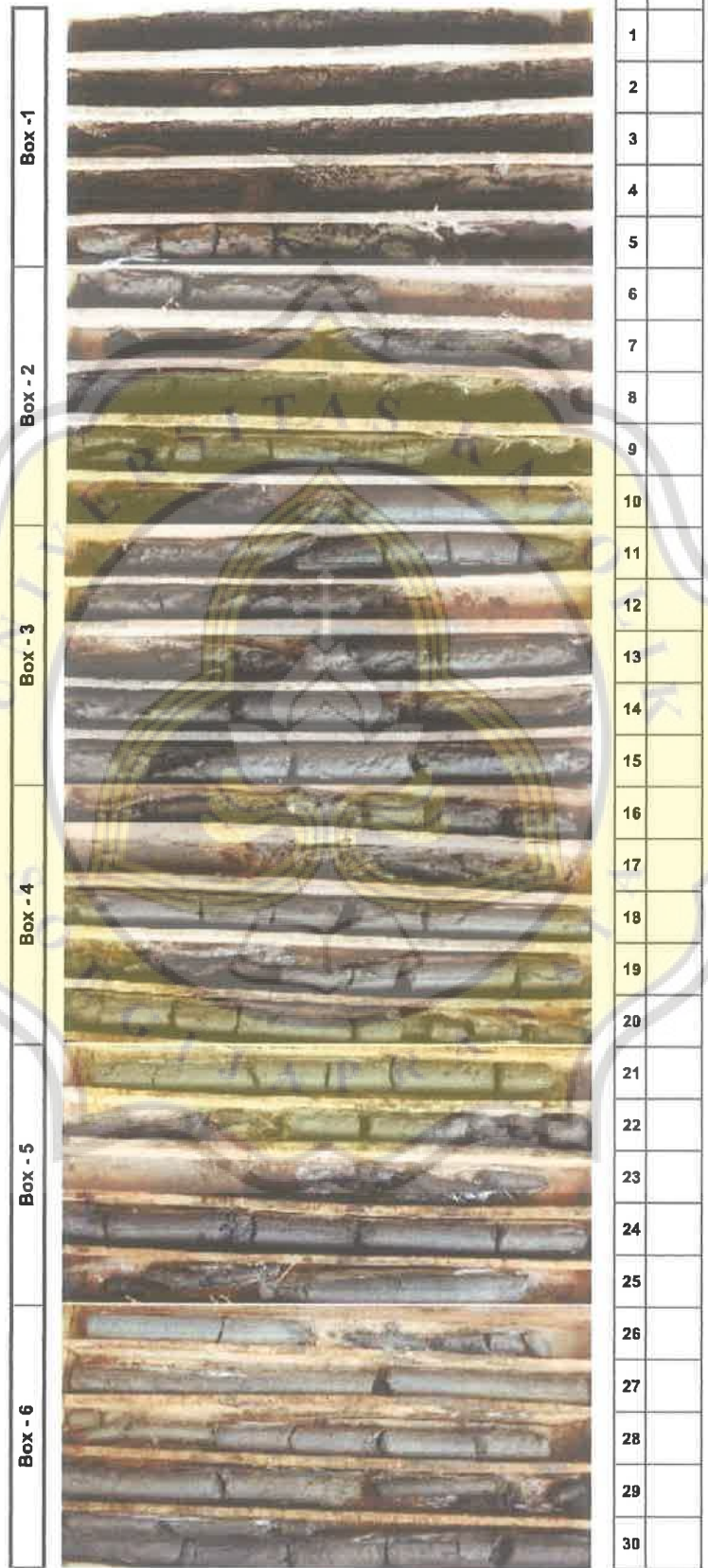
Tanah lunak adalah tanah yang mempunyai nilai kompresibilitas tinggi, umumnya terdiri dari dari lempung yang berumur Holosen kurang dari 10.000 tahun. Tanah lempung secara alamiah terbentuk dari proses endapan di dataran aluvial pantai, sungai, delta dan rawa. Menurut Kementerian Energi dan Sumber Daya Mineral penyebaran tanah lunak di wilayah Indonesia, umumnya dijumpai pada daerah Pantai Timur Sumatera, Pantai Utara Jawa, Pantai Barat Pulau Kalimantan dan





LAMPIRAN LB-1-2
HASIL DAN SAMPLE UJI SPT BH1

BORING CORE			
Geotechnical Investigation for the Mutiara Arteri Regency			
Hole No	BH-1	Lokasi	Jl. Gajah Raya NO. 78 Sng
Tot Depth (m)	30,0 m	Surface Elev.	-



Depth (m)	Elevation (m)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
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29	
30	



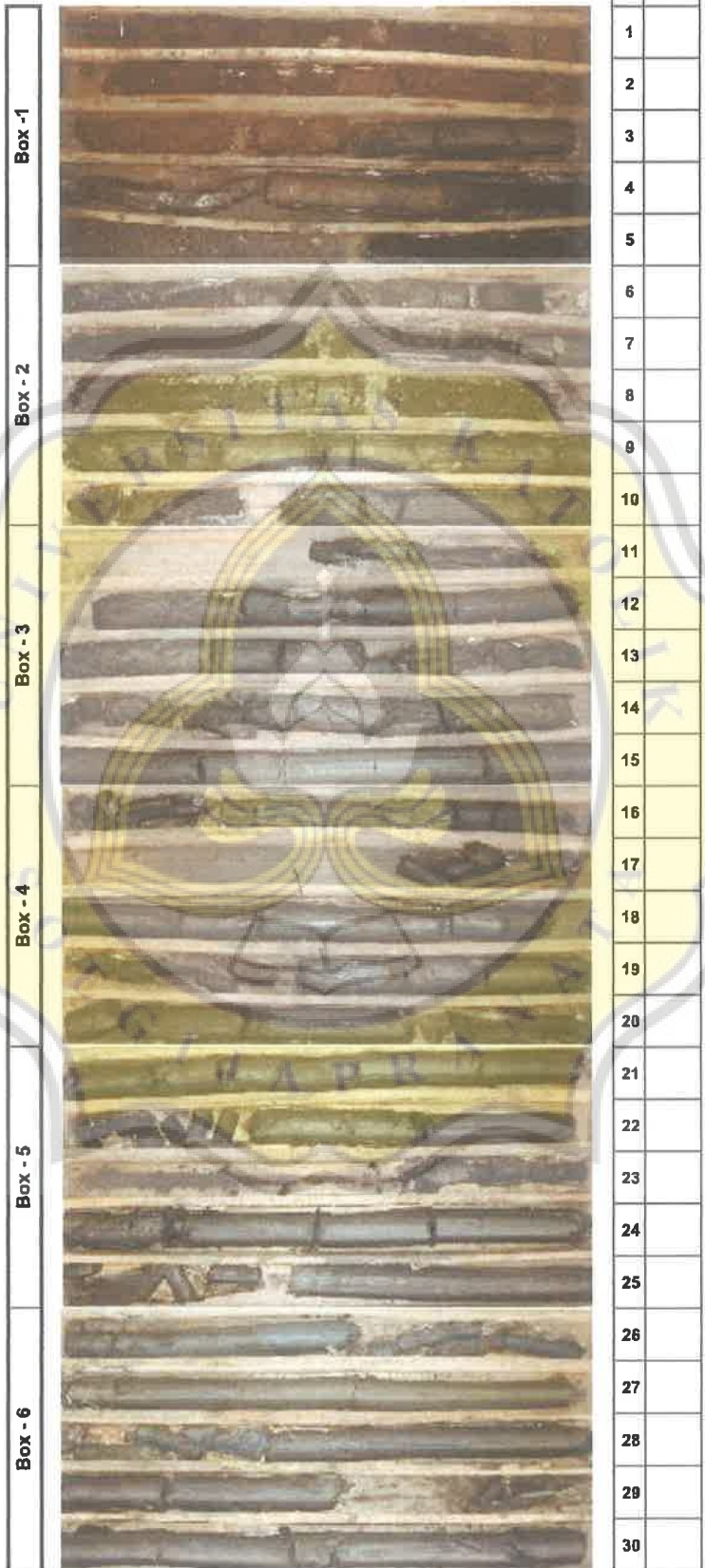
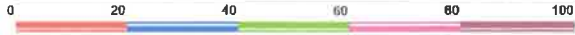
LAMPIRAN LC-1-2
HASIL DAN SAMPLE UJI SPT BH2

LABORATORIUM MEKANIKA TANAH JURUSAN TEKNIK SIPIL POLITEKNIK NEGERI SEMARANG JAWA TENGAH				PROJECT : MUTIARA ARTERI REGENCY - SEMARANG														
Location STA : Jl. Gajah Raya no. 78		DESCRIPTION BY : Suparman		BOR NO : BH. 2		ELEVATION EXISTING : 0												
DATE START : 28-Mar-21		DATE FINISH : 30-Mar-21		MASTER BOR : Krucoy Damantik		BORING METHOD : Coring, Sampling												
DEPT OF BOR : 30,0 (0,0 - 30,0)		TYPE OF HAMMER : Automatic Hammer		DEPT OF GWL : 1,3 m		SAMPLING METHOD : Thin walled (shelby) tube												
Sample type : UDS & DS																		
Depth of Casing : 27,0 m																		
Depth (m)	Depth of GWL	SPT (N)				STANDARD PENETRATION (N)						Sample UDS	% of Core	SOIL SYMBOL	SOIL DESCRIPTION	ELEVATION (m)		
		N ₁	N ₂	N ₃	N	5	10	15	20	25	30						35	40
0																		
1	1	1	1	1	2									100%		Lanau kepasiran dan sedikit kerikil, warna coklat <i>consistency soft</i>	-1	
2																		
3		1	1	2	3									100%		Lempung (clays), warna abu - abu kecoklatan <i>consistency soft - medium</i>	-3	
4														4 0 4,5	UDS			
5		3	6	7	13									100%		Pasir halus sedikit lanau, kulit kerang, coklat keabuan, <i>relative density medium</i>	-5	
6																		
7		4	6	9	15													
8																		
9		3	4	7	11									100%		Pasir halus sedikit lanau dan sedikit kulit kerang, abu-abu kehitaman kecoklatan, <i>relative density loose - medium</i>	-7	
10														4 0 4,5	UDS			
11		1	3	3	6									100%		Lempung sedikit pasir halus sedikit kulit kerang warna abu - abu, <i>consistency very soft</i>	-8	
12																		
13		2	1	1	2									100%		Lempung sedikit pasir halus sedikit kulit kerang warna abu - abu, <i>consistency very soft</i>	-10	
14																		
15		1	1	1	2													
16		2	1	2	3													
17																		
18		2	1	2	3													
19																		
20		3	3	3	6													
21																		
22		1	2	1	3									15 0 15,5	UDS	100%	Lempung (clays) sedikit kulit kerang, warna abu - abu <i>consistency soft - medium</i>	-16
23																		
24		2	1	2	3													
25																		
26		6	3	3	6													
27																		
28		3	3	3	6													
29																		
30		3	3	3	6													
31																		
32		2	3	3	6									22 0 22,5	UDS	100%	Lempung (clays) sedikit bahan organik, warna abu - abu kehitaman kecoklatan, <i>consistency medium</i>	-22
33																		
34		3	4	4	8													
35																		
36		3	3	5	8													
37																		
38																		
39		24	25	20	45									100%		Lempung (clays), warna abu - abu kecoklatan <i>consistency very stiff - hard</i>	-27	
40																		
41		4	6	10	16									100%		Lempung (clays), warna abu - abu kehitaman <i>consistency stiff</i>	-28	
42																		
43		4	6	7	13													
44																		

stopped drilling

Total

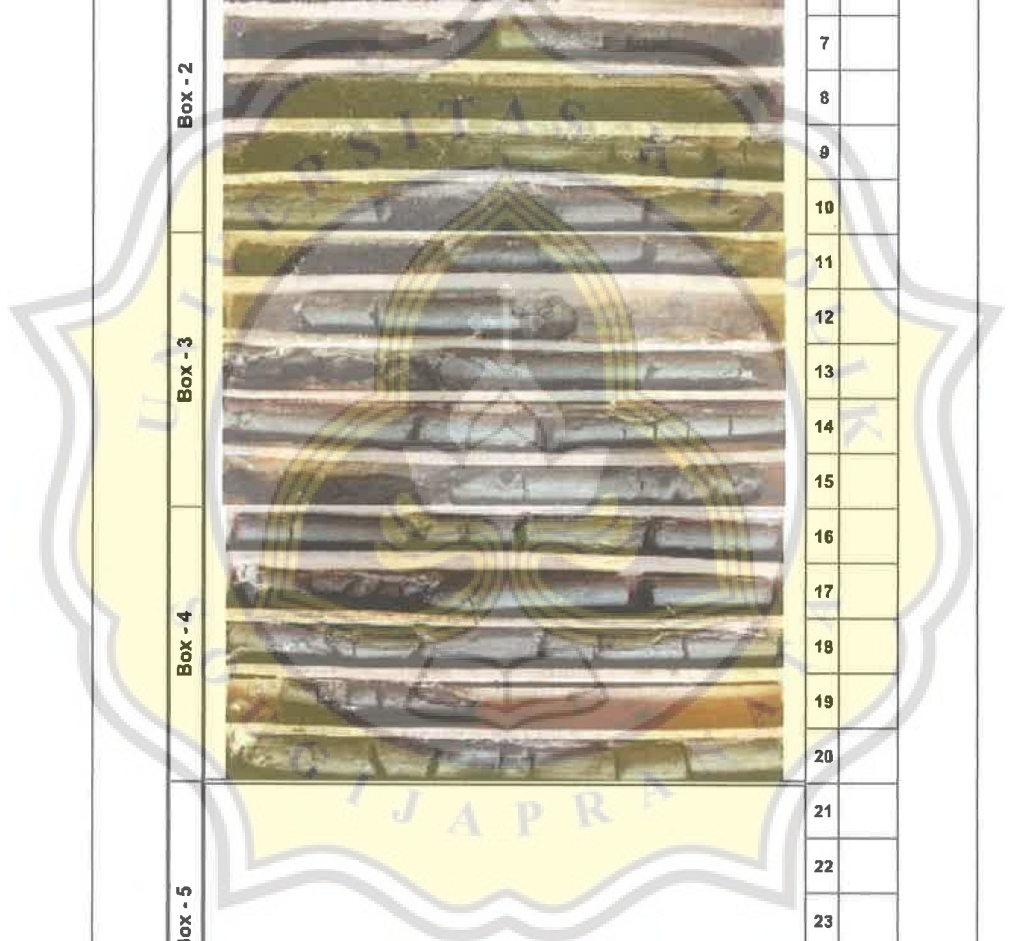
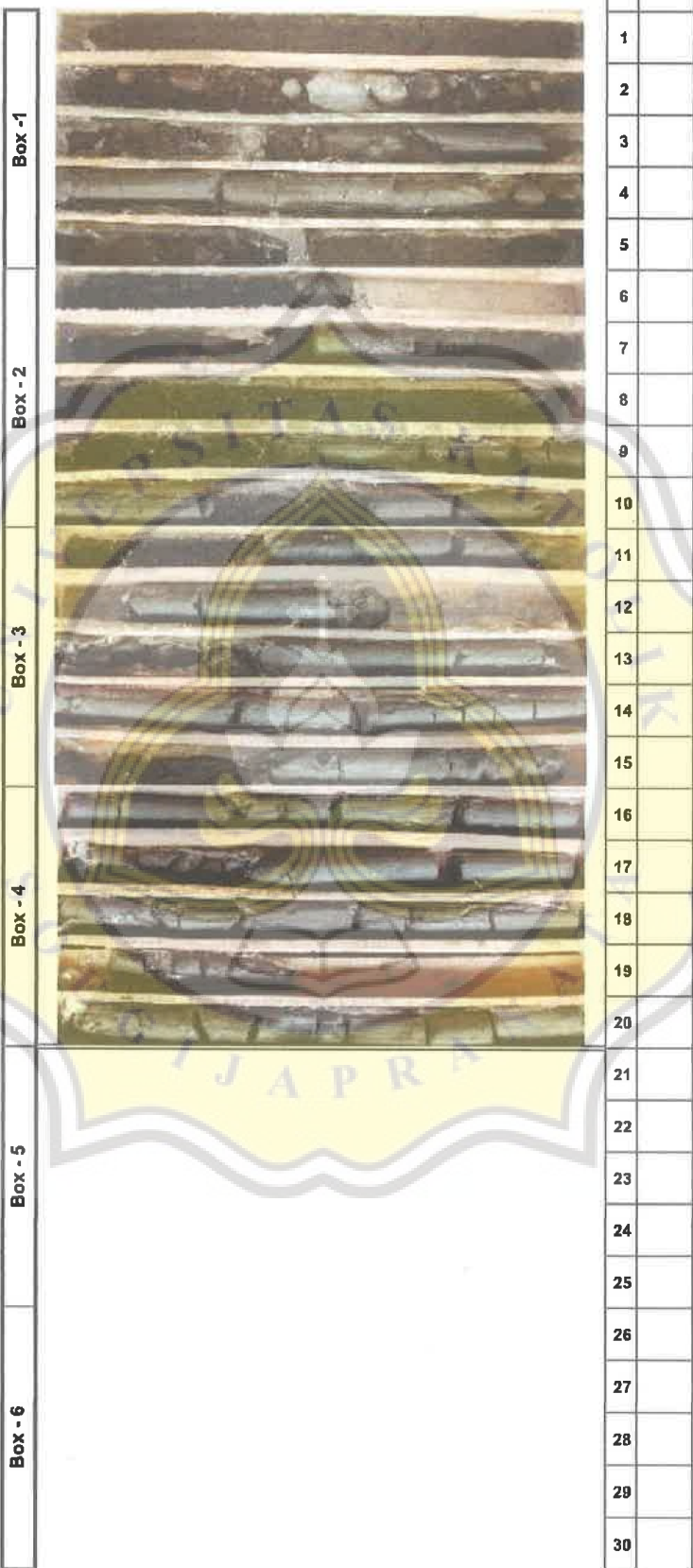
BORING CORE			
Geotechnical Investigation for the Mutiara Arteri Regency			
Hole No	BH-2	Lokasi	Jl. Gajah Raya NO. 78 Sng
Tot Depth (m)	30,0 m	Surface Elev.	-





LAMPIRAN LD-1-2
HASIL DAN SAMPLE UJI SPT BH3

BORING CORE			
Geotechnical Investigation for the Mutiara Arteri Regency			
Hole No	BH-3	Lokasi	Jl. Gajah Raya NO. 78 Smg
Tot Depth (m)	30,0 m	Surface Elev.	-





LAMPIRAN LE-1
HASIL UJI TANAH LABOLATORIUM



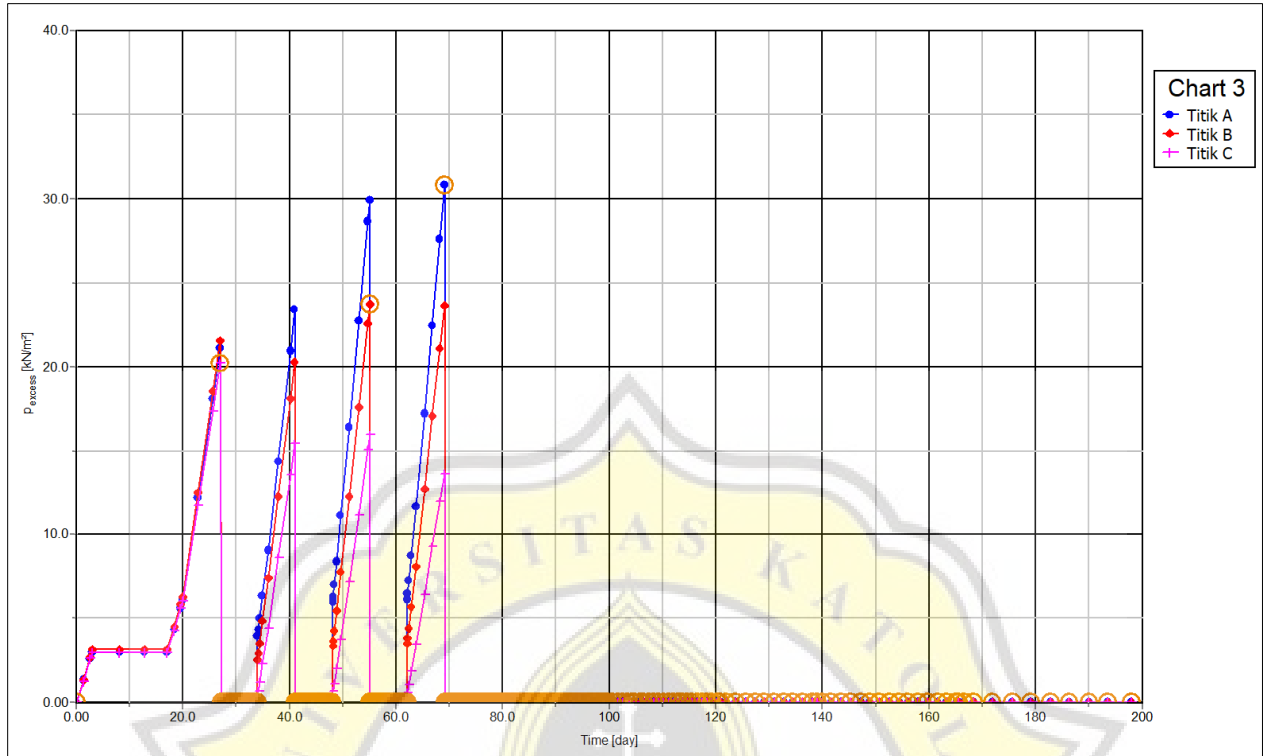
LABORATORIUM MEKANIKA TANAH
 POLITEKNIK NEGERI SEMARANG
 Jl. Prof. Soedarto, SH Tembalang Kotak Pos 6199/SMS Semarang 50275
 Phone. 024-7478271 Email. projas.sipil@gmail.com

REKAPITULASI HASIL UJI LABORATORIUM
 PROYEK PERUMAHAN MUTIARA ARTERI REGENCY

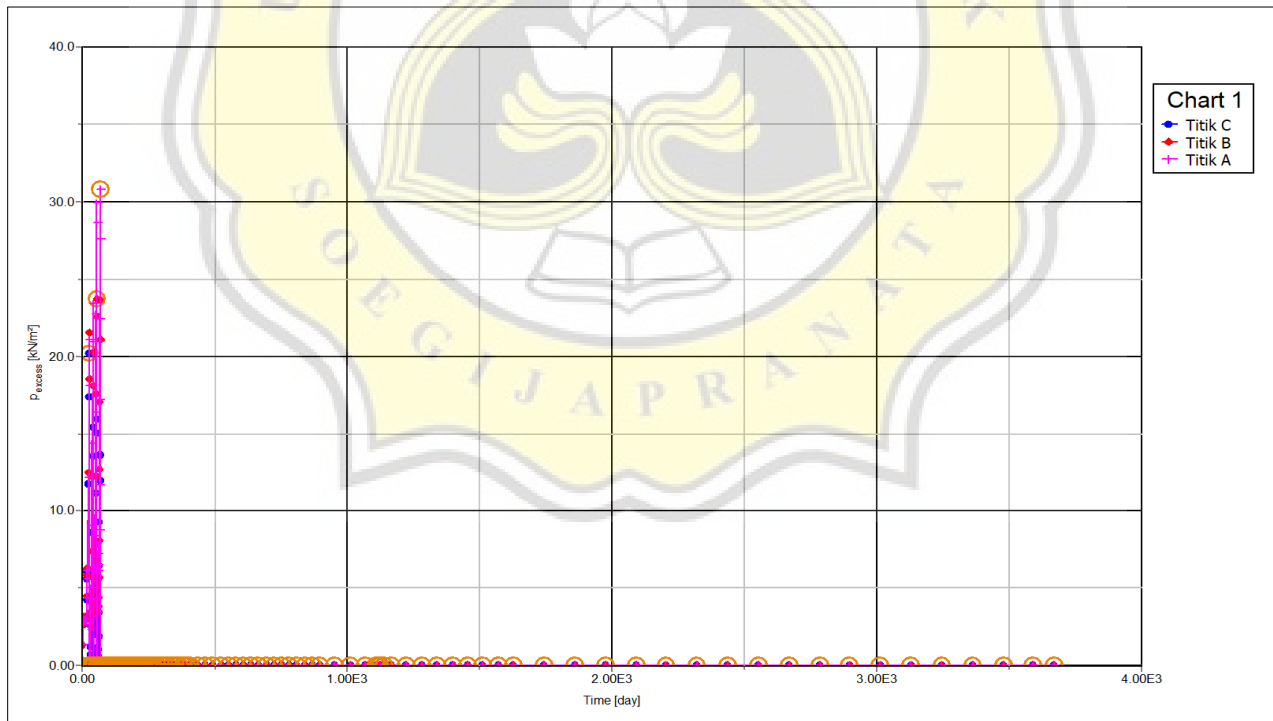
Bore Hole	Depth (m)	Specific Gravity	Density		wp %	e	n	sr %	Direct Shear		Triaxial		Atterberg limits				Grain Size					Consolidation				
			ym (gr/cm ³)	yd (gr/cm ³)					c (kg/cm ²)	φ (deg)	c (kg/cm ²)	φ (deg)	IL %	PL %	IP %	Particly chart	% finer weight passing no. 200 sieve	Buttom < 2 μm (0.002mm)	Grewel %	Sand %	Silt %	Clay %	Activity	Cc	Cv (m ² /year)	
B.01	5.50 - 6.00	2.73	2.14	1.66	28.96	0.64	0.39	100.00	0.0967	37.39	-	-	NON PLASTIS				34.28	9.18	4.86	60.87	25.10	9.18	-	-	-	-
	11.50 - 12.00	2.65	1.67	1.01	65.47	1.64	0.62	100.00	-	-	0.2250	0.914	69.00	26.03	42.97	CH	98.01	43.41	0.30	1.69	54.60	43.41	0.990	0.702	2.386	
	16.00 - 16.50	2.60	1.63	0.97	68.50	1.69	0.63	100.00	-	-	0.2609	1.226	80.10	30.67	49.43	CH	96.69	30.87	0.30	3.01	65.82	30.87	1.601	0.936	2.318	
	22.00 - 22.50	2.58	1.60	0.92	73.36	1.80	0.64	100.00	-	-	0.2833	3.656	93.00	30.97	62.03	CH	99.75	62.67	0.00	0.25	37.08	62.67	0.990	0.946	6.873	
B.02	4.00 - 4.50	2.78	1.97	1.42	38.17	0.95	0.49	100.00	-	-	0.3006	5.182	32.90	17.96	14.94	CL	57.15	37.09	0.89	41.96	20.07	37.09	0.403	0.341	6.446	
	10.00 - 10.50	2.69	1.75	1.11	57.49	1.43	0.59	100.00	-	-	0.2016	3.993	35.30	21.34	13.96	CL	83.29	30.89	0.40	16.31	52.41	30.89	0.452	0.563	4.820	
	16.00 - 16.50	2.70	1.62	0.90	79.95	2.00	0.67	100.00	-	-	0.1261	0.944	91.00	34.25	56.74	CH	97.34	39.10	0.25	2.40	56.24	39.10	1.451	0.818	1.812	
	22.00 - 22.50	2.56	1.57	0.87	79.38	1.93	0.66	100.00	-	-	0.1931	5.496	90.00	35.92	54.08	CH	97.72	53.35	0.52	1.76	44.38	53.35	1.014	0.926	2.060	
B.03	5.50 - 6.00	2.76	1.95	1.49	30.76	0.85	0.46	99.96	0.1006	37.34	-	-	NON PLASTIS				35.36	9.11	5.67	58.97	26.26	9.11	-	-	-	-
	11.00 - 11.50	2.75	1.93	1.42	36.17	0.93	0.48	100.00	0.0763	40.82	-	-	30.20	21.20	9.00	CL	54.32	13.99	2.93	42.75	40.33	13.99	0.643	0.295	12.827	
	18.00 - 18.50	2.49	1.65	0.97	70.31	1.57	0.61	100.00	-	-	0.1254	0.523	81.90	32.47	49.43	CH	95.53	36.41	0.83	3.64	59.12	36.41	1.358	0.721	2.473	



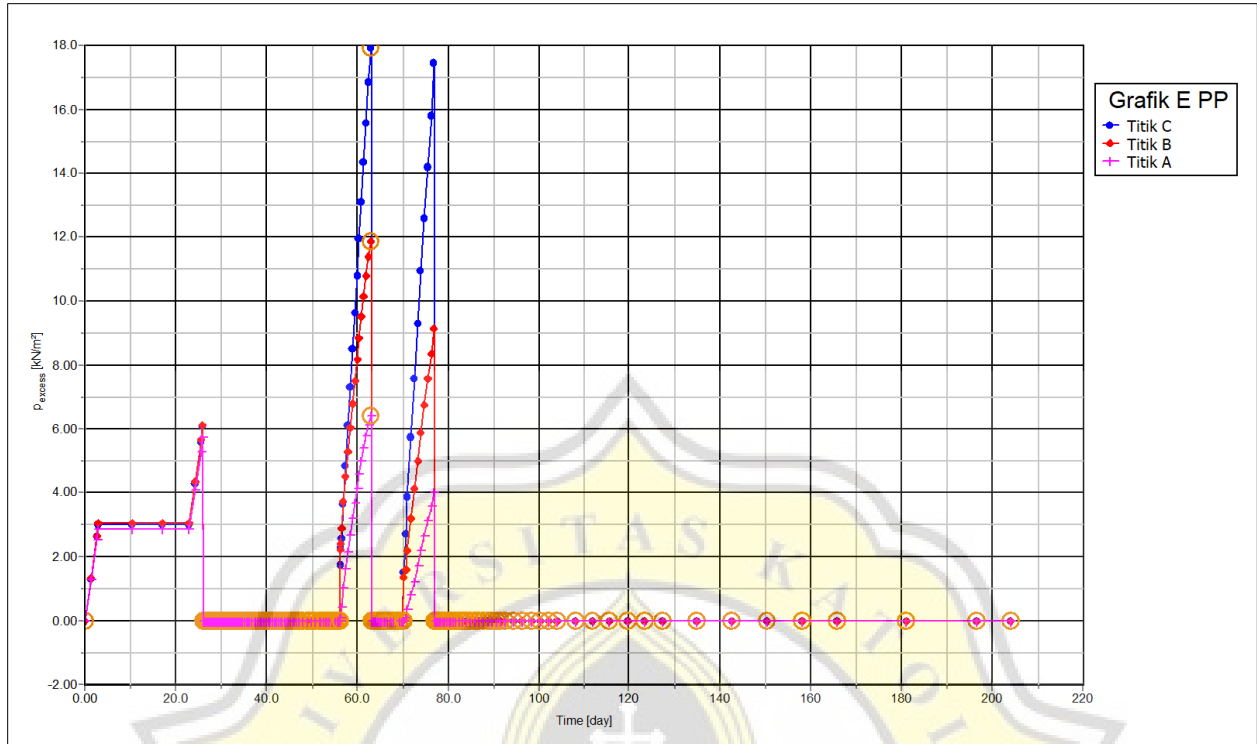
LAMPIRAN LF-1-2
**GRAFIK *EXCESS PORE PRESSURE VS TIME* PERBAIKAN
TANAH LUNAK MENGGUNAKAN *PRELOADING* DAN
VACUUM TITIK A, TITIK B, TITIK C**



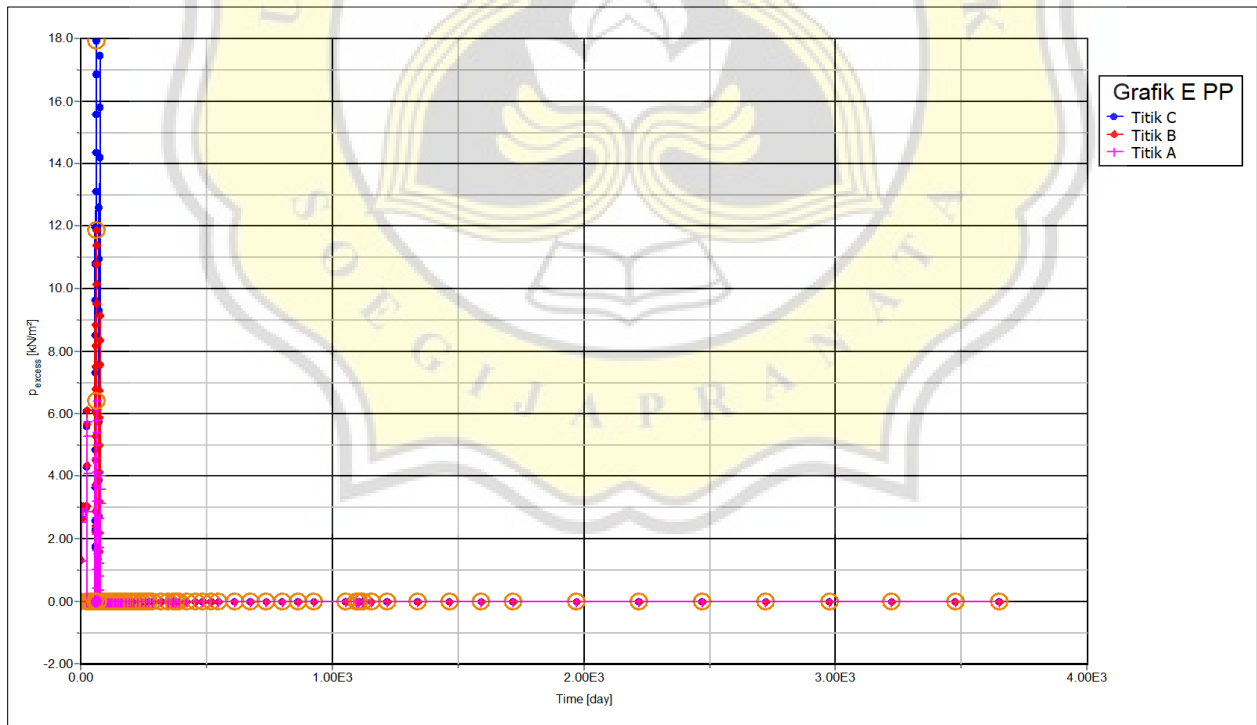
Grafik *Excess Pore Pressure vs Time Akhir Konstruksi PVD kombinasi Preloading*



Grafik *Excess Pore Pressure vs Time Konsolidasi 10 Tahun PVD kombinasi Preloading*



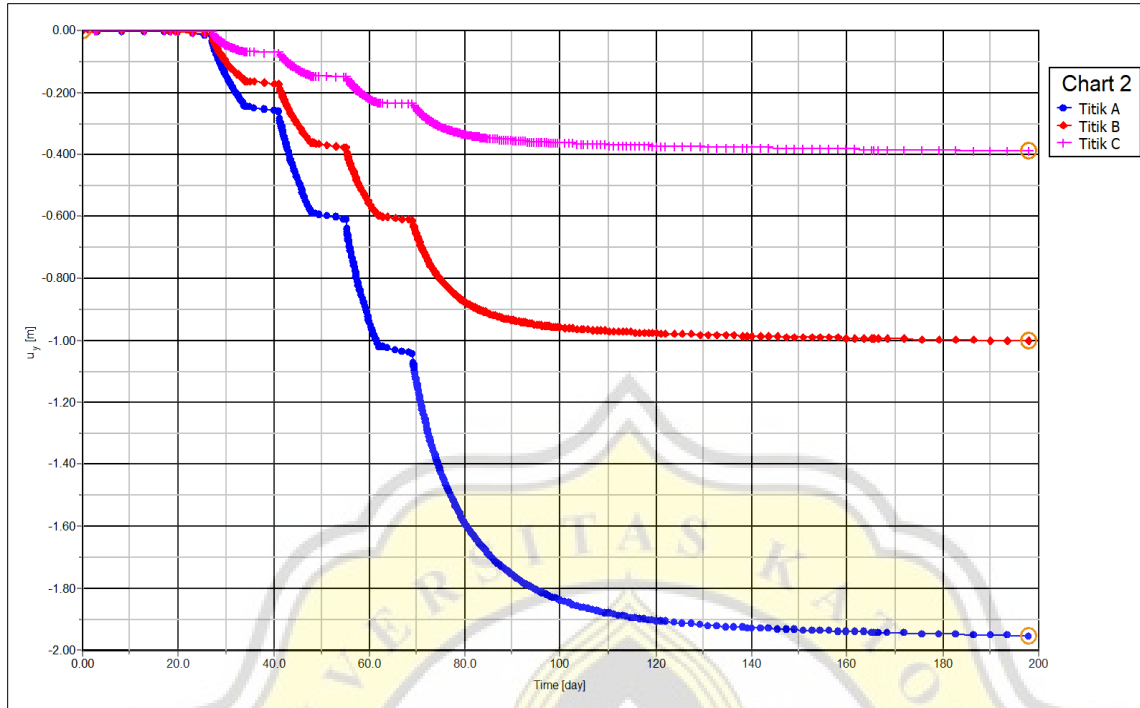
Grafik *Excess Pore Pressure vs Time Akhir Konstruksi PVD kombinasi Vacuum*



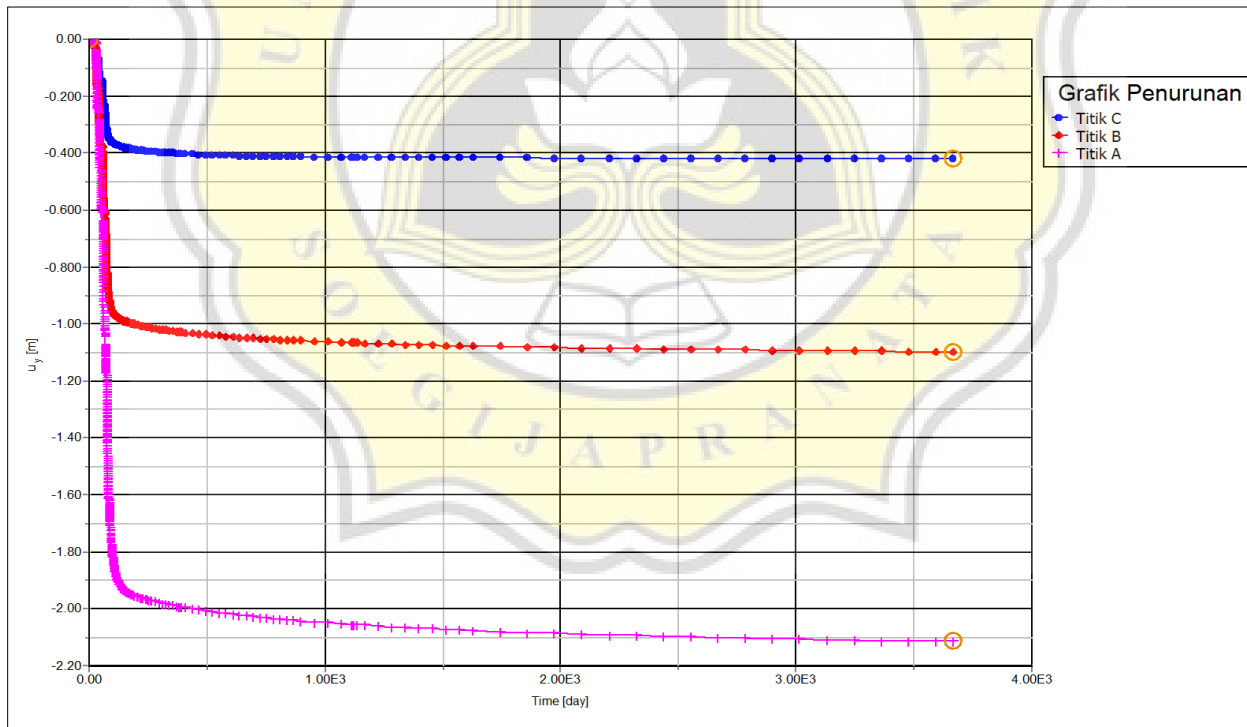
Grafik *Excess Pore Pressure vs Time Konsolidasi 10 Tahun PVD kombinasi Vacuum*

The logo of Universitas Katolik Soegijapranata is a yellow shield with a scalloped border. Inside the shield, there is a stylized black and white emblem of a church facade with a central arch and a book at the base. The text "UNIVERSITAS KATOLIK" is written in a semi-circle at the top, and "SOEGIJAPRANATA" is written in a semi-circle at the bottom.

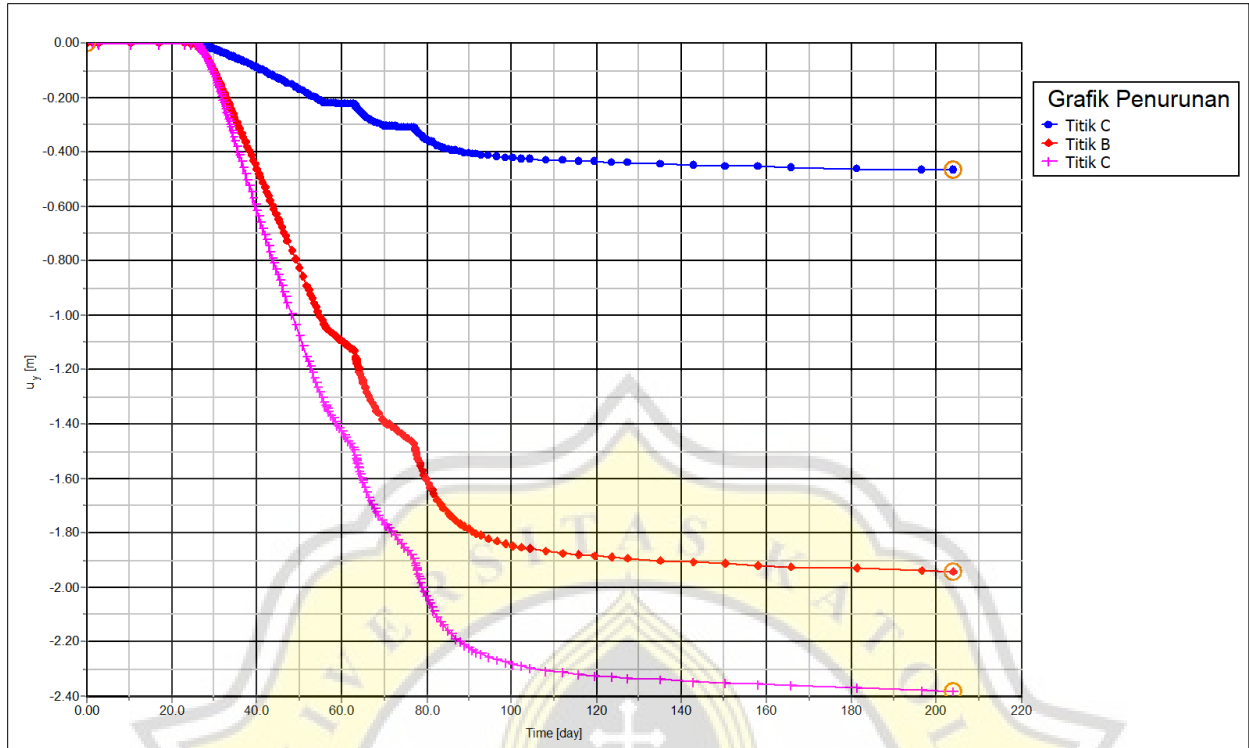
LAMPIRAN LG-1-2
**GRAFIK *TOTAL DISPLACEMENT VS TIME* PERBAIKAN
TANAH LUNAK MENGGUNAKAN *PRELOADING* DAN
VACUUM TITIK A, TITIK B, TITIK C**



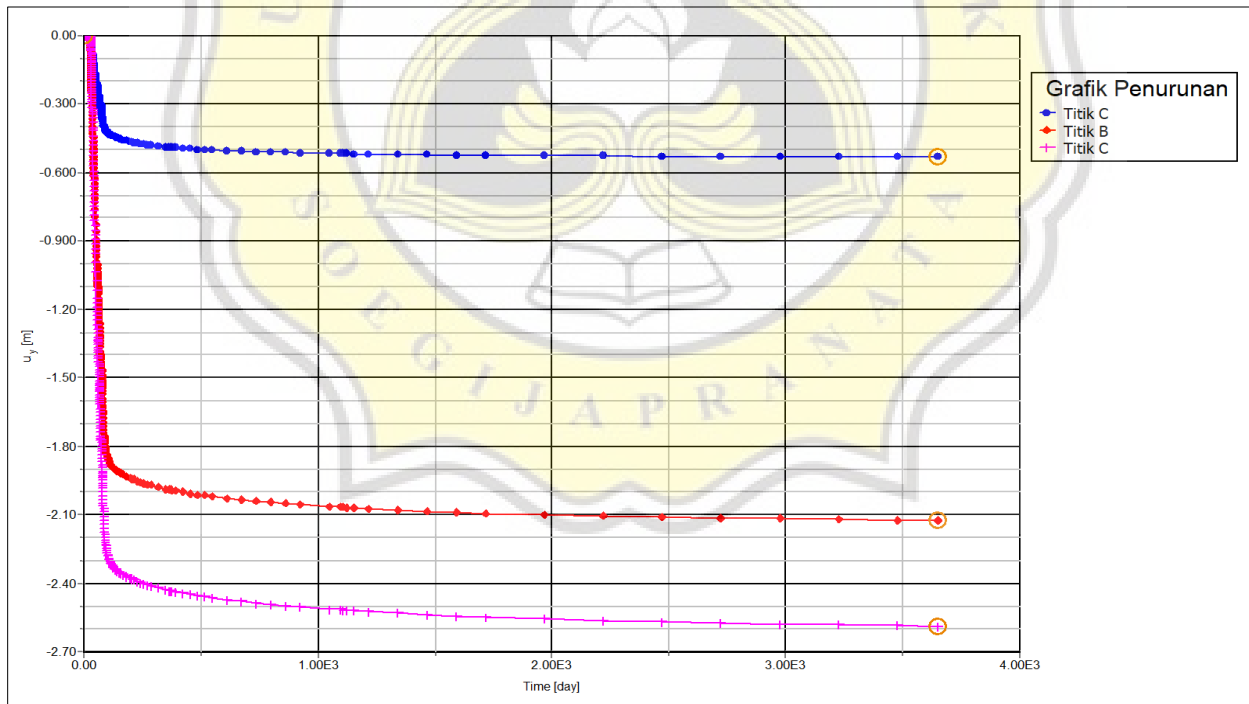
Grafik Penurunan vs *Time* Akhir Konstruksi PVD kombinasi *Preloading*



Grafik Penurunan vs *Time* Konsolidasi 10 Tahun PVD kombinasi *Preloading*



Grafik Penurunan vs *Time* Akhir Konstruksi PVD kombinasi *Vacuum*



Grafik Penurunan vs *Time* Konsolidasi 10 Tahun PVD kombinasi *Vacuum*