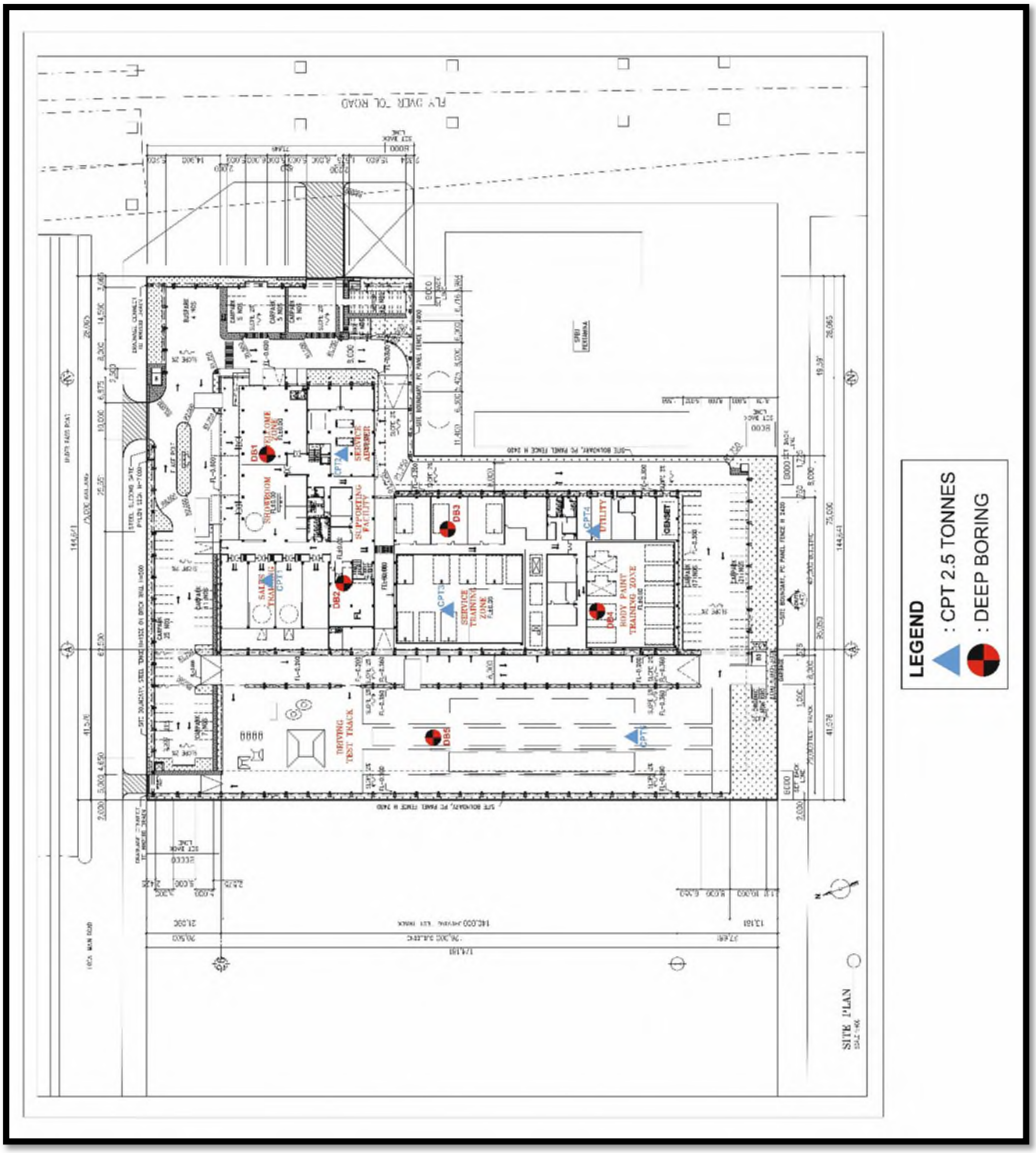
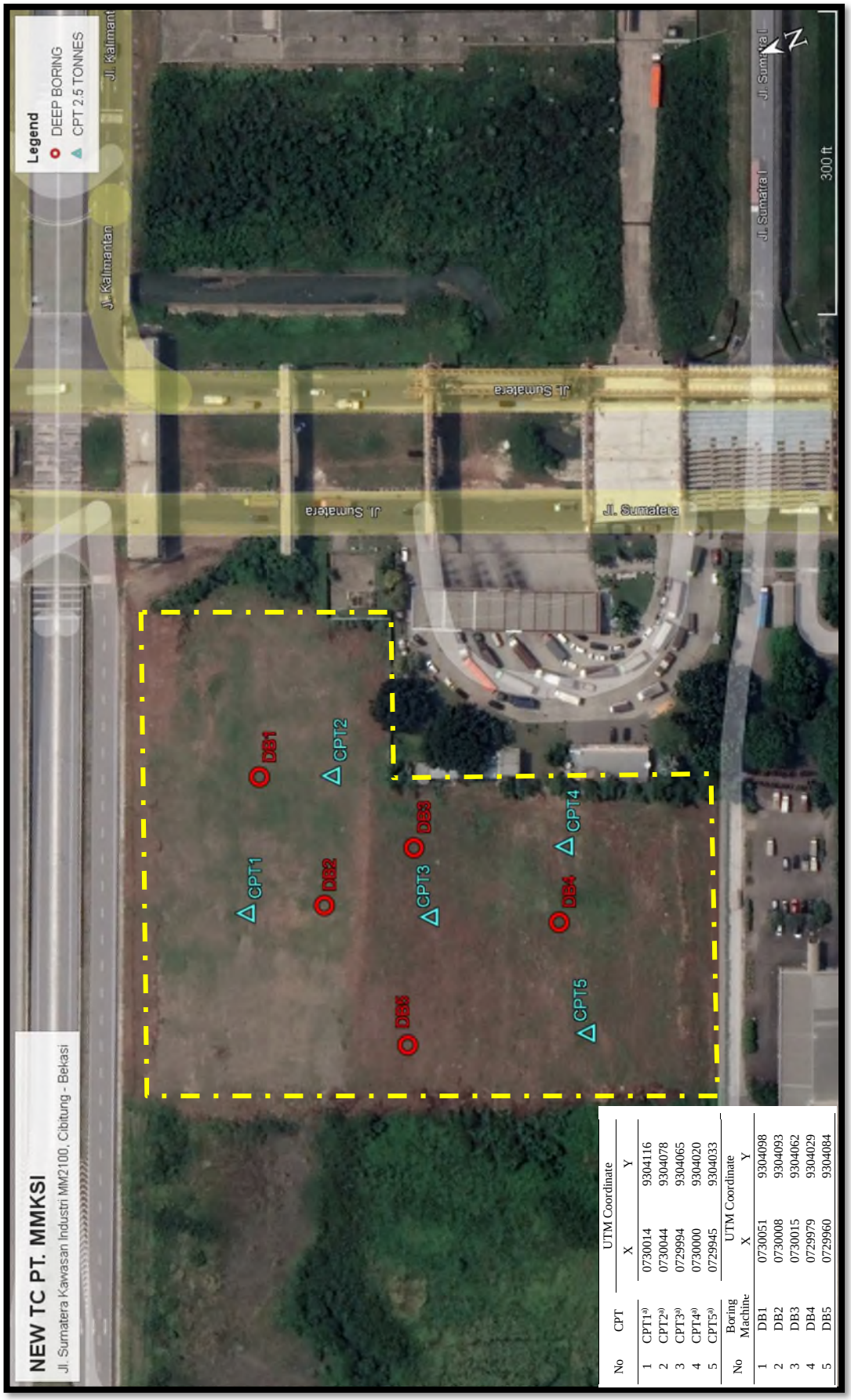
# TEST POINTS LOCATION MAP






| No | CPT | UTM Coordinate X | UTM Coordinate Y |
|---|---|---|---|
| 1 | CPT1[a)] | 0730014 | 9304116 |
| 2 | CPT2[a)] | 0730044 | 9304078 |
| 3 | CPT3[a)] | 0729994 | 9304065 |
| 4 | CPT4[a)] | 0730000 | 9304020 |
| 5 | CPT5[a)] | 0729945 | 9304033 |

| No | Boring Machine | UTM Coordinate X | UTM Coordinate Y |
|---|---|---|---|
| 1 | DB1 | 0730051 | 9304098 |
| 2 | DB2 | 0730008 | 9304093 |
| 3 | DB3 | 0730015 | 9304062 |
| 4 | DB4 | 0729979 | 9304029 |
| 5 | DB5 | 0729960 | 9304084 |

# BORING LOG

Project No. : 1S.22135
Project : MMKSI TRAINING CENTER
Location : Kaw. MM2100 NR-1, Bekasi - Jawa Barat

Coordinate : 0730045 - 9304101
Elevation : -
GWL : 3.40 m
Start Date : 31/12/2022
Finish Date : 03/01/2023
Bore Depth : 30.00 m
Core Dia. : 7.30 cm
Casing Dia. : 10.16 cm

Driller : Suyanto B.
Hammer Type : Automatic Trip Hammer
Hammer No : 06
Hammer Energy : 60.1 % - 82.7 %

**Log No.** **DB1**

Remarks :
Undisturbed Sample ( UDS ) | Split Spoon | Casing | Spare Sample | Bag Sample

| Date of Boring | Depth (m) | Legend | Symbol | Description | Sampling: Recovery (%) | Sampling: Depth (m) | Sampling: Sample | Standard Penetration Test: Blows Per Each 15 cm N1 | N2 | N3 | N | N - Value | Laboratory Test: Strength Test: Type | $c_u$ / c' (kg/cm²) | $\phi_u$ / $\phi'$ (°) | $q_u$ (kg/cm²) | γt t/m³ | Gs | e | Atterberg Limit (%): Wn | LL | PL | LI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31/12/2022 | 1 | | ML | CLAYEY SILT, Red, moist, low plasticity | 100 | 1 | | | | | | | | | | | | | | | | | |
| | | | GW | SILTY GRAVEL, Red, wet, medium dense, well graded | 96 | | ☒ | 5 | 9 | 15 | 24 | | | | | | | | | | | | |
| | 2 | | | | 96 | 2 | | | | | | | | | | | | | | | | | |
| | | | ML | CLAYEY SILT, Red, moist, medium stiff, low plasticity DB1 - UD1 : 2.00 - 2.50 m | 100 | | | | | | | | | | | | | | | | | | |
| | 3 | | | | 100 | 3 | ☒ | 2 | 3 | 3 | 6 | | | | | | | | | | | | |
| | | | | | 91 | | | | | | | | | | | | | | | | | | |
| | 4 | | ML | CLAYEY SILT, Yellowish red, moist, low plasticity DB1 - UD2 : 3.50 - 4.00 m | 100 | 4 | | | | | | | | | | | | | | | | | |
| | | | | | 100 | | ☒ | 7 | 15 | 20 | 35 | | | | | | | | | | | | |
| | 5 | | ML | GRAVELLY SILT, Dark grey, moist, hard, low plasticity | 80 | 5 | | | | | | | | | | | | | | | | | |
| | 6 | | | | 33 | 6 | ☒ | 23 | 50 | - | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| 01/01/2023 | 7 | | SW | CEMENTED SAND Dark brown, wet, very dense, well graded | 90 | 7 | | | 5 Bouncing | | | | | | | | | | | | | | |
| | | | | | 38 | | ☒ | 14 | 50 | - | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 8 | | SW | SILTY SAND Dark brown, wet, dense, well graded | 95 | 8 | | | 4 Bouncing | | | | | | | | | | | | | | |
| | 9 | | | | 91 | 9 | ☒ | 15 | 20 | 26 | 46 | | | | | | | | | | | | |
| | 10 | | SW | CEMENTED SAND Dark brown, wet, very dense, well graded | 80 | 10 | | | | | | | | | | | | | | | | | |
| | | | | | 44 | | ☒ | 17 | 50 | - | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 11 | | SW | CEMENTED SAND Black, wet, well graded | 93 | 11 | | | 6 Bouncing | | | | | | | | | | | | | | |
| | 12 | | ML | CEMENTED SILT Dark grey, moist, hard, low plasticity | 98 | 12 | ☒ | 15 | 32 | 50 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 13 | | | | 90 | 13 | | | | 7 Bouncing | | | | | | | | | | | | | |
| | | | | | 89 | | ☒ | 17 | 33 | 50 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 14 | | | | 95 | 14 | | | | 6 Bouncing | | | | | | | | | | | | | |
| | 15 | | SW | FINE SAND Black, wet, dense, well graded | 93 | 15 | ☒ | 11 | 17 | 25 | 42 | | | | | | | | | | | | |
| | 16 | | | | 90 | 16 | | | | | | | | | | | | | | | | | |
| | | | | | 98 | | ☒ | 12 | 18 | 26 | 44 | | | | | | | | | | | | |
| | 17 | | | | 95 | 17 | | | | | | | | | | | | | | | | | |
| | 18 | | ML | SILT Grey, moist, hard, low plasticity | 91 | 18 | ☒ | 9 | 15 | 23 | 38 | | | | | | | | | | | | |
| | 19 | | ML | CEMENTED SILT Dark grey, moist, hard, containing a few of sand, low plasticity | 99 | 19 | | | | | | | | | | | | | | | | | |
| | | | | | 78 | | ☒ | 18 | 31 | 50 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 20 | | | | 90 | 20 | | | | 5 Bouncing | | | | | | | | | | | | | |
| | 21 | | ML | CEMENTED SILT, Dark grey, moist, hard, low plasticity | 94 / 89 | 21 | ☒ | 16 | 21 | 32 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| 02/01/2023 | 22 | | SW | CEMENTED SAND Blackish grey, wet, very dense, well graded | 90 | 22 | | | | | | | | | | | | | | | | | |
| | | | | | 56 | | ☒ | 17 | 50 | - | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 23 | | | | 88 | 23 | | | 7 Bouncing | | | | | | | | | | | | | | |
| | 24 | | | | 60 | 24 | ☒ | 15 | 50 | - | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 25 | | SW | FINE SAND Black, wet, dense, well graded | 97 | 25 | | | 8 Bouncing | | | | | | | | | | | | | | |
| | | | | | 93 | | ☒ | 10 | 18 | 23 | 41 | | | | | | | | | | | | |
| | 26 | | | | 95 | 26 | | | | | | | | | | | | | | | | | |
| | 27 | | | | 98 | 27 | ☒ | 9 | 19 | 25 | 44 | | | | | | | | | | | | |
| 03/01/2023 | 28 | | | | 98 | 28 | | | | | | | | | | | | | | | | | |
| | | | | | 96 | | ☒ | 11 | 18 | 24 | 42 | | | | | | | | | | | | |
| | 29 | | | | 95 | 29 | | | | | | | | | | | | | | | | | |
| | 30 | | | | 100 | 30 | ☒ | 12 | 17 | 26 | 43 | | | | | | | | | | | | |
| | | | | End of Boring | | | | | | | | | | | | | | | | | | | |

Prepared By : Arif



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**PT. TARUMANEGARA Bumiyasa**

# BORING LOG

Project No. : 1S.22135
Project : MMKSI TRAINING CENTER
Location : Kaw. MM2100 NR-1, Bekasi - Jawa Barat

Coordinate : 0730008 - 9304093
Elevation : -
GWL : 2.70 m
Start Date : 31/12/2022
Finish Date : 03/01/2023
Bore Depth : 30.00 m
Core Dia. : 7.30 cm
Casing Dia. : 10.16 cm

Driller : Widhi
Hammer Type : Automatic Trip Hammer
Hammer No : 04
Hammer Energy : 59.4 % - 73.2 %

**Log No. DB2**

Remarks :
Undisturbed Sample ( UDS ) | Split Spoon | Casing | Spare Sample | Bag Sample

| Date of Boring | Depth (m) | Legend | Symbol | Description | Sampling: Recovery (%) | Sampling: Depth (m) | Sampling: Sample | Standard Penetration Test: Blows Per Each 15 cm N1 | N2 | N3 | N | N - Value | Laboratory Test: Strength Test: Type | $c_u$ / c' (kg/cm²) | $\phi_u$ / $\phi'$ (°) | $q_u$ (kg/cm²) | γt t/m³ | Gs | e | Atterberg Limit (%): Wn | LL | PL | LI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31/12/2022 | 1 | | ML | CLAYEY SILT Reddish brown, moist, medium stiff, low plasticity | 96 | 1 | | | | | | | | | | | | | | | | | |
| | | | | | 96 | | ☒ | 2 | 3 | 4 | 7 | | | | | | | | | | | | |
| | 2 | | CH | CLAY, Brownish light grey, moist, medium stiff, high plasticity DB2 - UD1 : 2.00 - 2.50 m | 100 | 2 | | | | | | | | | | | | | | | | | |
| | | | | | 96 | | | | | | | | | | | | | | | | | | |
| | 3 | | ML | SILT Light brown, moist, low plasticity DB2 - UD2 : 3.50 - 4.00 m | 98 | 3 | ☒ | 2 | 2 | 3 | 5 | | | | | | | | | | | | |
| | | | | | 100 | | | | | | | | | | | | | | | | | | |
| | 4 | | | | 94 | 4 | | | | | | | | | | | | | | | | | |
| | | | | | 93 | | ☒ | 11 | 18 | 25 | 43 | | | | | | | | | | | | |
| | 5 | | ML | SILT, Light brown, moist, hard, containing a few of fine sand, low plasticity | 86 | 5 | | | | | | | | | | | | | | | | | |
| | 6 | | GP | GRAVEL, Blackish brown, wet, poorly graded | 93 | 6 | ☒ | 24 | 36 | 50 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | | | | | 93 | | | | | 6 | Bouncing | | | | | | | | | | | | |
| 01/01/2023 | 7 | | ML | SILT Brownish light grey, moist, hard, containing a few of cemented, low plasticity | 96 | 7 | ☒ | 6 | 11 | 15 | 26 | | | | | | | | | | | | |
| | 8 | | | | 96 | 8 | | | | | | | | | | | | | | | | | |
| | 9 | | ML | SILT, Yellowish light brown, moist, very stiff, low plasticity | 91 | 9 | ☒ | 9 | 13 | 24 | 37 | | | | | | | | | | | | |
| | 10 | | ML | SILT, Light brown, moist, hard, containing a few of fine sand, low plasticity | 98 | 10 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 14 | 24 | 32 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 11 | | ML | CEMENTED SILT, Light brown, moist, hard, containing a few of fine sand, low plasticity | 98 | 11 | | | | | | | | | | | | | | | | | |
| | 12 | | | | 96 | 12 | ☒ | 14 | 25 | 29 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 13 | | ML | SILT, Greyish brown, moist, hard, containing a few of fine sand, low plasticity | 96 | 13 | | | | | | | | | | | | | | | | | |
| | | | | | 93 | | ☒ | 9 | 13 | 20 | 33 | | | | | | | | | | | | |
| | 14 | | ML | SILT, Greyish dark grey, moist, hard, containing a few of fine sand, low plasticity | 93 | 14 | | | | | | | | | | | | | | | | | |
| | 15 | | | | 89 | 15 | ☒ | 12 | 18 | 25 | 43 | | | | | | | | | | | | |
| | 16 | | SW | SAND Black, wet, dense, well graded | 84 | 16 | | | | | | | | | | | | | | | | | |
| | | | | | 87 | | ☒ | 13 | 22 | 26 | 48 | | | | | | | | | | | | |
| 02/01/2023 | 17 | | ML | SILT Dark grey, moist, hard, containing a few of fine sand, low plasticity | 92 | 17 | | | | | | | | | | | | | | | | | |
| | 18 | | | | 93 | 18 | ☒ | 13 | 25 | 28 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 19 | | SP | SAND Dark grey, wet, medium dense, poorly graded | 83 | 19 | | | | | | | | | | | | | | | | | |
| | | | | | 89 | | ☒ | 6 | 10 | 15 | 25 | | | | | | | | | | | | |
| | 20 | | | | 87 | 20 | | | | | | | | | | | | | | | | | |
| | 21 | | | | 91 | 21 | ☒ | 5 | 9 | 14 | 23 | | | | | | | | | | | | |
| | 22 | | SP | SAND, Black, wet, medium dense, poorly graded | 86 | 22 | | | | | | | | | | | | | | | | | |
| | | | | | 89 | | ☒ | 6 | 9 | 15 | 24 | | | | | | | | | | | | |
| | 23 | | SP | SAND Dark grey, wet, dense, poorly graded | 80 | 23 | | | | | | | | | | | | | | | | | |
| | 24 | | | | 87 | 24 | ☒ | 10 | 19 | 23 | 42 | | | | | | | | | | | | |
| 03/01/2023 | 25 | | SW | SAND Black, wet, dense, well graded | 86 | 25 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 10 | 22 | 24 | 46 | | | | | | | | | | | | |
| | 26 | | | | 84 | 26 | | | | | | | | | | | | | | | | | |
| | 27 | | | | 89 | 27 | ☒ | 11 | 19 | 25 | 44 | | | | | | | | | | | | |
| | 28 | | | | 90 | 28 | | | | | | | | | | | | | | | | | |
| | | | | | 87 | | ☒ | 9 | 19 | 21 | 40 | | | | | | | | | | | | |
| | 29 | | | | 96 | 29 | | | | | | | | | | | | | | | | | |
| | 30 | | CH | SILTY CLAY, Light grey, moist, very stiff, high plasticity | 96 | 30 | ☒ | 6 | 10 | 13 | 23 | | | | | | | | | | | | |
| | | | | End of Boring | | | | | | | | | | | | | | | | | | | |

Prepared By : Arif



PT. TARUMANEGARA Bumiyasa

# BORING LOG

Project No. : 1S.22135
Project : MMKSI TRAINING CENTER
Location : Kaw. MM2100 NR-1, Bekasi - Jawa Barat

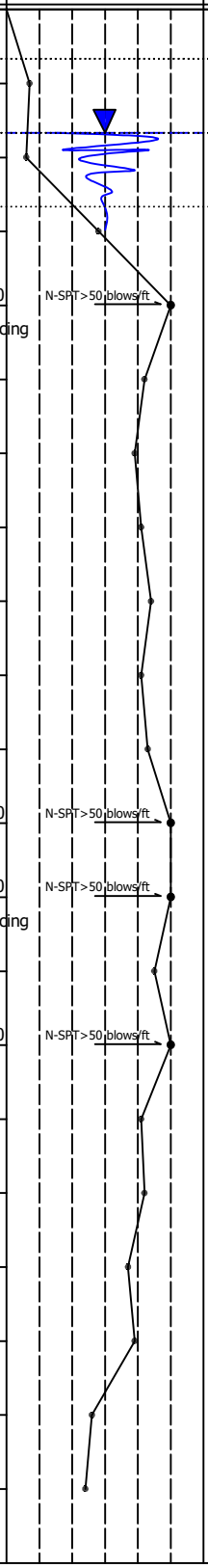
Coordinate : 0730015 - 9304062
Elevation : -
GWL : 2.50 m
Start Date : 04/01/2023
Finish Date : 06/01/2023
Bore Depth : 30.00 m
Core Dia. : 7.30 cm
Casing Dia. : 10.16 cm

Driller : Suyanto B.
Hammer Type : Automatic Trip Hammer
Hammer No : 06
Hammer Energy : 60.1 % - 82.7 %

**Log No.** **DB3**

Remarks :
Undisturbed Sample ( UDS ) | Split Spoon | Casing | Spare Sample | Bag Sample

| Date of Boring | Depth (m) | Legend | Symbol | Description | Sampling: Recovery (%) | Sampling: Depth (m) | Sampling: Sample | Standard Penetration Test: Blows Per Each 15 cm N1 | N2 | N3 | N | Laboratory Test: Strength Test: Type | $c_u$ / c' (kg/cm²) | $\phi_u$ / $\phi$' (°) | $q_u$ (kg/cm²) | γt t/m³ | Gs | e | Atterberg Limit (%): Wn | LL | PL | LI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/01/2023 | 1 | | CL | SILTY CLAY, Red, moist, containing a few of gravel, low plasticity | 100 / 86 | 1 | UDS | | | | | | | | | | | | | | | |
| | 2 | | CL | SILTY CLAY, Red, moist, medium stiff, low plasticity DB3 - UD1 : 0.50 - 1.00 m | 100 / 96 / 90 | 2 | SPT / UDS | 3 | 3 | 4 | 7 | | | | | | | | | | | |
| | 3 | | ML | CLAYEY SILT Red, moist, low plasticity DB3 - UD2 : 2.00 - 2.50 m | 100 / 90 / 80 | 3 | SPT / UDS | 2 | 3 | 3 | 6 | | | | | | | | | | | |
| | 4 | | ML | CLAYEY SILT, Red, moist, medium stiff, containing a few of gravel, low plasticity DB3 - UD3 : 3.50 - 4.00 m | 100 / 93 | 4 | UDS / SPT | 7 | 11 | 17 | 28 | | | | | | | | | | | |
| | 5 | | | | | 5 | | | | | | | | | | | | | | | | |
| | 6 | | ML | SILT, Greyish brown, moist, very stiff, low plasticity | 67 / 95 | 6 | SPT | 15 | 33 | 50 | >50 | | | | | | | | | | | |
| | 7 | | ML | CEMENTED SILT, Brown, moist, hard, low plasticity | 98 | 7 | SPT | 12 | 17 | 25 | 42 | | | | | | | | | | | |
| | 8 | | SW | SAND Black, wet, dense to very dense, well graded | 100 | 8 | | | | | | | | | | | | | | | | |
| | 9 | | | | 100 | 9 | SPT | 11 | 15 | 24 | 39 | | | | | | | | | | | |
| | 10 | | | | 99 / 96 | 10 | SPT | 10 | 15 | 26 | 41 | | | | | | | | | | | |
| | 11 | | | | 98 | 11 | | | | | | | | | | | | | | | | |
| | 12 | | | | 100 | 12 | SPT | 12 | 17 | 27 | 44 | | | | | | | | | | | |
| 05/01/2023 | 13 | | | | 100 | 13 | | | | | | | | | | | | | | | | |
| | | | | | 93 | | SPT | 11 | 16 | 25 | 41 | | | | | | | | | | | |
| | 14 | | | | 91 | 14 | | | | | | | | | | | | | | | | |
| | 15 | | | | 91 | 15 | SPT | 10 | 17 | 26 | 43 | | | | | | | | | | | |
| | 16 | | | | 98 | 16 | | | | | | | | | | | | | | | | |
| | | | SW | CEMENTED SAND, Brown, moist, dense, well graded | 56 | | SPT | 31 | 50 | - | >50 | | | | | | | | | | | |
| | 17 | | ML | CEMENTED SILT, Dark grey, moist, hard, low plasticity | 80 | 17 | | | 6 Bouncing | | | | | | | | | | | | | |
| | 18 | | | | 67 | 18 | SPT | 15 | 33 | 50 | >50 | | | | | | | | | | | |
| | 19 | | SW | SAND Black, wet, very dense, well graded | 100 | 19 | | | | 7 Bouncing | | | | | | | | | | | | |
| | | | | | 98 | | SPT | 12 | 18 | 27 | 45 | | | | | | | | | | | |
| | 20 | | SW | GRAVELLY SAND Black, wet, very dense, well graded | 100 / 100 | 20 | | | | | | | | | | | | | | | | |
| | 21 | | | | 89 | 21 | SPT | 17 | 26 | 33 | >50 | | | | | | | | | | | |
| | 22 | | SW | SAND Black, wet, dense to very dense, well graded | 98 / 89 | 22 | SPT | 9 | 15 | 26 | 41 | | | | | | | | | | | |
| 06/01/2023 | 23 | | | | 100 | 23 | | | | | | | | | | | | | | | | |
| | 24 | | | | 91 | 24 | SPT | 10 | 17 | 25 | 42 | | | | | | | | | | | |
| | 25 | | | | 100 / 98 | 25 | SPT | 8 | 14 | 23 | 37 | | | | | | | | | | | |
| | 26 | | | | 100 | 26 | | | | | | | | | | | | | | | | |
| | 27 | | | | 100 | 27 | SPT | 7 | 15 | 24 | 39 | | | | | | | | | | | |
| | 28 | | CH | SILTY CLAY Grey, moist, hard, high plasticity | 98 / 100 | 28 | SPT | 5 | 11 | 15 | 26 | | | | | | | | | | | |
| | 29 | | | | 99 | 29 | | | | | | | | | | | | | | | | |
| | 30 | | | | 100 | 30 | SPT | 6 | 10 | 14 | 24 | | | | | | | | | | | |
| | | | | End of Boring | | | | | | | | | | | | | | | | | | |




Prepared By : Arif



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**PT. TARUMANEGARA Bumiyasa**

# BORING LOG

Project No. : 1S.22135
Project : MMKSI TRAINING CENTER
Location : Kaw. MM2100 NR-1, Bekasi - Jawa Barat

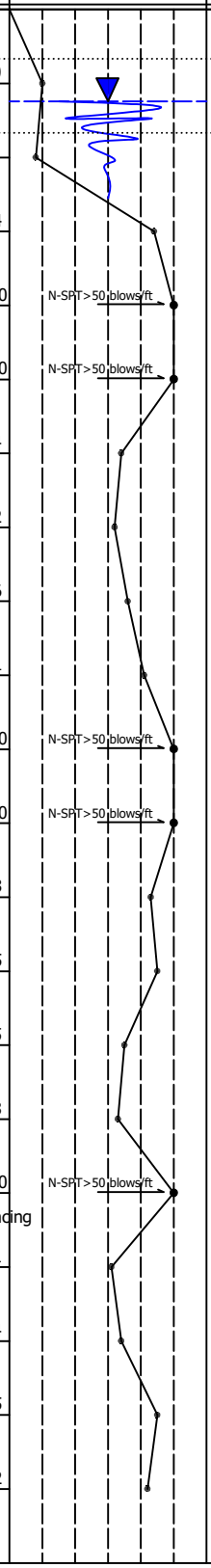
Coordinate : 0729979 - 9304029
Elevation : -
GWL : 1.90 m
Start Date : 07/01/2023
Finish Date : 10/01/2023
Bore Depth : 30.00 m
Core Dia. : 7.30 cm
Casing Dia. : 10.16 cm

Driller : Widhi
Hammer Type : Automatic Trip Hammer
Hammer No : 04
Hammer Energy : 59.4 % - 73.2 %

**Log No. DB4**

Remarks :
Undisturbed Sample ( UDS ) | Split Spoon | Casing | Spare Sample | Bag Sample

| Date of Boring | Depth (m) | Legend | Symbol | Description | Sampling: Recovery (%) | Sampling: Depth (m) | Sampling: Sample | Standard Penetration Test: Blows Per Each 15 cm N1 | N2 | N3 | N | Laboratory Test: Strength Test Type | $c_u$ / c' (kg/cm²) | $\phi_u$ / $\phi$' (°) | $q_u$ (kg/cm²) | γt t/m³ | Gs | e | Atterberg Limit (%) Wn | LL | PL | LI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07/01/2023 | 1 | | ML | CLAYEY SILT Brown, moist, stiff, low plasticity DB4 - UD1 : 0.50 - 1.00 m | 100 | 1 | | | | | | | | | | | | | | | | |
| | | | | | 94 | | | | | | | | | | | | | | | | | |
| | | | | | 93 | | ☒ | 3 | 4 | 6 | 10 | | | | | | | | | | | |
| | 2 | | ML | CLAYEY SILT, Yellowish dark brown, moist, stiff, low plasticity DB4 - UD2 : 2.00 - 2.50 m | 100 | 2 | | | | | | | | | | | | | | | | |
| | | | | | 96 | | | | | | | | | | | | | | | | | |
| | 3 | | | | 98 | 3 | ☒ | 3 | 4 | 4 | 8 | | | | | | | | | | | |
| | 4 | | ML | CLAYEY SILT Brown, moist, stiff, high plasticity | 98 | 4 | | | | | | | | | | | | | | | | |
| | | | ML | CLAYEY SILT, Yellowish light grey, moist, hard, containing a few of gravel, low plasticity | 96 | | ☒ | 10 | 18 | 26 | 44 | | | | | | | | | | | |
| | 5 | | | | 83 | 5 | | | | | | | | | | | | | | | | |
| | 6 | | ML | GRAVELLY SILT Yellowish brown, moist, hard, low plasticity | 93 | 6 | ☒ | 16 | 24 | 33 | >50 | N-SPT>50 blows/ft | | | | | | | | | | |
| | 7 | | | | 81 | 7 | | | | | | | | | | | | | | | | |
| | | | | | 44 | | ☒ | 24 | 50 | - | >50 | N-SPT>50 blows/ft | | | | | | | | | | |
| 08/01/2023 | 8 | | SP | CEMENTED SAND, Blackish grey, moist, dense, poorly graded | 81 | 8 | | | 7 | Bouncing | | | | | | | | | | | | |
| | 9 | | SW | SAND Black, wet, dense, well graded | 96 | 9 | ☒ | 7 | 14 | 20 | 34 | | | | | | | | | | | |
| | 10 | | | | 94 | 10 | | | | | | | | | | | | | | | | |
| | | | | | 96 | | ☒ | 6 | 13 | 19 | 32 | | | | | | | | | | | |
| | 11 | | | | 93 | 11 | | | | | | | | | | | | | | | | |
| | 12 | | | | 91 | 12 | ☒ | 7 | 15 | 21 | 36 | | | | | | | | | | | |
| | 13 | | | | 89 | 13 | | | | | | | | | | | | | | | | |
| | | | | | 87 | | ☒ | 8 | 14 | 27 | 41 | | | | | | | | | | | |
| | 14 | | SP | SAND Blackish grey, wet, very dense, poorly graded | 73 | 14 | | | | | | | | | | | | | | | | |
| | 15 | | | | 71 | 15 | ☒ | 14 | 23 | 32 | >50 | N-SPT>50 blows/ft | | | | | | | | | | |
| | 16 | | ML | GRAVELLY SILT, Blackish grey, moist, containing a few of fine sand, low plasticity | 87 | 16 | | | | | | | | | | | | | | | | |
| | | | | | 96 | | ☒ | 12 | 21 | 32 | >50 | N-SPT>50 blows/ft | | | | | | | | | | |
| | 17 | | ML | SILT, Dark grey, moist, hard, containing a few of fine sand, low plasticity | 86 | 17 | | | | | | | | | | | | | | | | |
| | 18 | | | | 91 | 18 | ☒ | 10 | 21 | 22 | 43 | | | | | | | | | | | |
| 09/01/2023 | 19 | | SW | SAND Black, wet, dense, well graded | 84 | 19 | | | | | | | | | | | | | | | | |
| | | | | | 87 | | ☒ | 10 | 19 | 26 | 45 | | | | | | | | | | | |
| | 20 | | | | 85 | 20 | | | | | | | | | | | | | | | | |
| | 21 | | | | 89 | 21 | ☒ | 9 | 11 | 24 | 35 | | | | | | | | | | | |
| | 22 | | | | 84 | 22 | | | | | | | | | | | | | | | | |
| | | | | | 87 | | ☒ | 7 | 12 | 21 | 33 | | | | | | | | | | | |
| | 23 | | ML | CEMENTED SILT Grey, moist, hard, containing a few of fine sand, low plasticity | 96 | 23 | | | | | | | | | | | | | | | | |
| | 24 | | | | 91 | 24 | ☒ | 24 | 38 | 25 | >50 | N-SPT>50 blows/ft | | | | | | | | | | |
| 10/01/2023 | | | SW | SAND Black, wet, dense, well graded | 92 | | | | | 6 | Bouncing | | | | | | | | | | | |
| | 25 | | | | 84 | 25 | ☒ | 7 | 12 | 19 | 31 | | | | | | | | | | | |
| | 26 | | | | 89 | 26 | | | | | | | | | | | | | | | | |
| | 27 | | | | 82 | 27 | ☒ | 8 | 13 | 21 | 34 | | | | | | | | | | | |
| | 28 | | ML | SILT Light grey, moist, hard, low plasticity | 97 | 28 | | | | | | | | | | | | | | | | |
| | | | | | 98 | | ☒ | 11 | 21 | 24 | 45 | | | | | | | | | | | |
| | 29 | | | | 96 | 29 | | | | | | | | | | | | | | | | |
| | 30 | | | | 93 | 30 | ☒ | 9 | 18 | 24 | 42 | | | | | | | | | | | |
| | | | | End of Boring | | | | | | | | | | | | | | | | | | |




Prepared By : Arif



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**PT. TARUMANEGARA Bumiyasa**

# BORING LOG

Project No. : 1S.22135
Project : MMKSI TRAINING CENTER
Location : Kaw. MM2100 NR-1, Bekasi - Jawa Barat

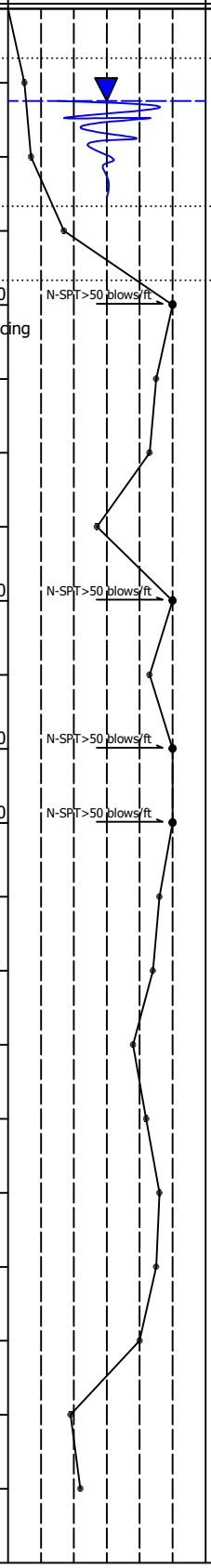
Coordinate : 0729960 - 9304084
Elevation : -
GWL : 1.90 m
Start Date : 04/01/2023
Finish Date : 06/01/2023
Bore Depth : 30.00 m
Core Dia. : 7.30 cm
Casing Dia. : 10.16 cm

Driller : Widhi
Hammer Type : Automatic Trip Hammer
Hammer No : 04
Hammer Energy : 59.4 % - 73.2 %

Log No. **DB5**

Remarks :
Undisturbed Sample ( UDS ) | Split Spoon | Casing | Spare Sample | Bag Sample

| Date of Boring | Depth (m) | Legend | Symbol | Description | Recovery (%) | Depth (m) | Sample | N1 | N2 | N3 | N | N - Value | Type | $c_u$ / c' (kg/cm²) | $\phi_u$ / $\phi'$ (°) | $q_u$ (kg/cm²) | γt t/m³ | Gs | e | Wn | LL | PL | LI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/01/2023 | 1 | | ML | CLAYEY SILT, Brown, moist, medium stiff, low plasticity | 100 | 1 | | | | | | | | | | | | | | | | | |
| | | | | DB5 - UD1 : 0.50 - 1.00 m | 92 | | | | | | | | | | | | | | | | | | |
| | | | | | 98 | | ☒ | 2 | 2 | 3 | 5 | | | | | | | | | | | | |
| | 2 | | ML | CLAYEY SILT Light brown, moist, medium stiff, low plasticity | 97 | 2 | | | | | | | | | | | | | | | | | |
| | 3 | | | | 93 | 3 | ☒ | 2 | 3 | 4 | 7 | | | | | | | | | | | | |
| | | | | DB5 - UD2 : 3.50 - 4.00 m | 100 | | | | | | | | | | | | | | | | | | |
| | 4 | | | | 96 | 4 | | | | | | | | | | | | | | | | | |
| | | | CH | SILTY CLAY, Reddish light grey, moist, very stiff, high plasticity | 96 | | ☒ | 5 | 7 | 10 | 17 | | | | | | | | | | | | |
| | 5 | | | | 96 | 5 | | | | | | | | | | | | | | | | | |
| | | | MH | SILT, Yellowish light grey, moist, high plasticity | 94 | | | | | | | | | | | | | | | | | | |
| | 6 | | | | 96 | 6 | ☒ | 23 | 36 | 50 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | | | | DB5 - UD3 : 5.00 - 5.50 m | | | | | | 5 Bouncing | | | | | | | | | | | | | |
| | 7 | | ML | SILT, Yellow, moist, hard, containing a few of sand, low plasticity | 89 | 7 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 13 | 18 | 27 | 45 | | | | | | | | | | | | |
| | 8 | | | | 87 | 8 | | | | | | | | | | | | | | | | | |
| | | | ML | SILT, Yellowish light brown, moist, hard, containing a few of sand, low plasticity | | | | | | | | | | | | | | | | | | | |
| | 9 | | | | 93 | 9 | ☒ | 11 | 16 | 27 | 43 | | | | | | | | | | | | |
| | | | | | 94 | | | | | | | | | | | | | | | | | | |
| | 10 | | ML | SILT Dark grey, moist, very stiff, low plasticity | | 10 | | | | | | | | | | | | | | | | | |
| | | | | | 98 | | ☒ | 9 | 11 | 16 | 27 | | | | | | | | | | | | |
| | 11 | | | | 95 | 11 | | | | | | | | | | | | | | | | | |
| | | | ML | SILT, Yellowish dark grey, moist, hard, containing a few of fine sand, low plasticity | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | 96 | 12 | ☒ | 11 | 24 | 28 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | | | | | 89 | | | | | | | | | | | | | | | | | | |
| | 13 | | SP | SAND, Blackish dark grey, wet, dense, poorly graded | | 13 | | | | | | | | | | | | | | | | | |
| | | | | | 89 | | ☒ | 10 | 17 | 26 | 43 | | | | | | | | | | | | |
| 05/01/2023 | 14 | | ML | SILT Dark grey, moist, hard, containing a few of fine sand, low plasticity | 97 | 14 | | | | | | | | | | | | | | | | | |
| | 15 | | | | 96 | 15 | ☒ | 13 | 24 | 29 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 16 | | | | 95 | 16 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 14 | 23 | 34 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 17 | | SW | SAND Black, wet, dense, well graded | 88 | 17 | | | | | | | | | | | | | | | | | |
| | 18 | | | | 89 | 18 | ☒ | 12 | 22 | 24 | 46 | | | | | | | | | | | | |
| | 19 | | | | 86 | 19 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 10 | 19 | 25 | 44 | | | | | | | | | | | | |
| | 20 | | | | 91 | 20 | | | | | | | | | | | | | | | | | |
| | | | ML | SILT, Greenish light grey, moist, hard, containing a few of fine sand, low plasticity | | | | | | | | | | | | | | | | | | | |
| | 21 | | | | 96 | 21 | ☒ | 9 | 14 | 24 | 38 | | | | | | | | | | | | |
| | | | | | 89 | | | | | | | | | | | | | | | | | | |
| | 22 | | SP | SAND Grey, wet, dense, poorly graded | | 22 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 10 | 17 | 25 | 42 | | | | | | | | | | | | |
| | 23 | | | | 86 | 23 | | | | | | | | | | | | | | | | | |
| 06/01/2023 | 24 | | | | 89 | 24 | ☒ | 10 | 22 | 24 | 46 | | | | | | | | | | | | |
| | | | | | 88 | | | | | | | | | | | | | | | | | | |
| | 25 | | SW | SAND Blackish grey, wet, dense, well graded | | 25 | | | | | | | | | | | | | | | | | |
| | | | | | 84 | | ☒ | 11 | 17 | 28 | 45 | | | | | | | | | | | | |
| | 26 | | | | 87 | 26 | | | | | | | | | | | | | | | | | |
| | 27 | | | | 87 | 27 | ☒ | 9 | 16 | 24 | 40 | | | | | | | | | | | | |
| | | | CH | SILTY CLAY Light grey, moist, very stiff, high plasticity | 99 | | | | | | | | | | | | | | | | | | |
| | 28 | | | | 98 | 28 | ☒ | 5 | 8 | 11 | 19 | | | | | | | | | | | | |
| | 29 | | | | 98 | 29 | | | | | | | | | | | | | | | | | |
| | 30 | | | | 96 | 30 | ☒ | 6 | 9 | 13 | 22 | | | | | | | | | | | | |
| | | | | End of Boring | | | | | | | | | | | | | | | | | | | |




Prepared By : Arif



APP XIII/6

**PT. TARUMANEGARA Bumiyasa**

# BORING LOG

Project No. : 1S.22135
Project : MMKSI TRAINING CENTER
Location : Kaw. MM2100 NR-1, Bekasi - Jawa Barat

Coordinate : 0730008 - 9304093
Elevation : -
GWL : 2.70 m
Start Date : 31/12/2022
Finish Date : 03/01/2023
Bore Depth : 30.00 m
Core Dia. : 7.30 cm
Casing Dia. : 10.16 cm

Driller : Widhi
Hammer Type : Automatic Trip Hammer
Hammer No : 04
Hammer Energy : 59.4 % - 73.2 %

**Log No. DB2**

Remarks :
Undisturbed Sample ( UDS ) | Split Spoon | Casing | Spare Sample | Bag Sample

| Date of Boring | Depth (m) | Legend | Symbol | Description | Sampling: Recovery (%) | Sampling: Depth (m) | Sampling: Sample | Standard Penetration Test: Blows Per Each 15 cm N1 | N2 | N3 | N | N - Value | Laboratory Test: Strength Test: Type | $c_u$ / c' (kg/cm²) | $\phi_u$ / $\phi'$ (°) | $q_u$ (kg/cm²) | γt t/m³ | Gs | e | Atterberg Limit (%): Wn | LL | PL | LI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31/12/2022 | 1 | | ML | CLAYEY SILT Reddish brown, moist, medium stiff, low plasticity | 96 | 1 | | | | | | | | | | | | | | | | | |
| | | | | | 96 | | ☒ | 2 | 3 | 4 | 7 | | | | | | | | | | | | |
| | 2 | | CH | CLAY, Brownish light grey, moist, medium stiff, high plasticity DB2 - UD1 : 2.00 - 2.50 m | 100 | 2 | | | | | | | | | | | | | | | | | |
| | | | | | 96 | | | | | | | | | | | | | | | | | | |
| | 3 | | ML | SILT Light brown, moist, low plasticity DB2 - UD2 : 3.50 - 4.00 m | 98 | 3 | ☒ | 2 | 2 | 3 | 5 | | | | | | | | | | | | |
| | | | | | 100 | | | | | | | | | | | | | | | | | | |
| | 4 | | | | 94 | 4 | | | | | | | | | | | | | | | | | |
| | | | | | 93 | | ☒ | 11 | 18 | 25 | 43 | | | | | | | | | | | | |
| | 5 | | ML | SILT, Light brown, moist, hard, containing a few of fine sand, low plasticity | 86 | 5 | | | | | | | | | | | | | | | | | |
| | 6 | | GP | GRAVEL, Blackish brown, wet, poorly graded | 93 | 6 | ☒ | 24 | 36 | 50 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | | | | | 93 | | | | | 6 | Bouncing | | | | | | | | | | | | |
| 01/01/2023 | 7 | | ML | SILT Brownish light grey, moist, hard, containing a few of cemented, low plasticity | 96 | 7 | ☒ | 6 | 11 | 15 | 26 | | | | | | | | | | | | |
| | 8 | | | | 96 | 8 | | | | | | | | | | | | | | | | | |
| | 9 | | ML | SILT, Yellowish light brown, moist, very stiff, low plasticity | 91 | 9 | ☒ | 9 | 13 | 24 | 37 | | | | | | | | | | | | |
| | 10 | | ML | SILT, Light brown, moist, hard, containing a few of fine sand, low plasticity | 98 | 10 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 14 | 24 | 32 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 11 | | ML | CEMENTED SILT, Light brown, moist, hard, containing a few of fine sand, low plasticity | 98 | 11 | | | | | | | | | | | | | | | | | |
| | 12 | | | | 96 | 12 | ☒ | 14 | 25 | 29 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 13 | | ML | SILT, Greyish brown, moist, hard, containing a few of fine sand, low plasticity | 96 | 13 | | | | | | | | | | | | | | | | | |
| | | | | | 93 | | ☒ | 9 | 13 | 20 | 33 | | | | | | | | | | | | |
| | 14 | | ML | SILT, Greyish dark grey, moist, hard, containing a few of fine sand, low plasticity | 93 | 14 | | | | | | | | | | | | | | | | | |
| | 15 | | | | 89 | 15 | ☒ | 12 | 18 | 25 | 43 | | | | | | | | | | | | |
| | 16 | | SW | SAND Black, wet, dense, well graded | 84 | 16 | | | | | | | | | | | | | | | | | |
| | | | | | 87 | | ☒ | 13 | 22 | 26 | 48 | | | | | | | | | | | | |
| 02/01/2023 | 17 | | ML | SILT Dark grey, moist, hard, containing a few of fine sand, low plasticity | 92 | 17 | | | | | | | | | | | | | | | | | |
| | 18 | | | | 93 | 18 | ☒ | 13 | 25 | 28 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 19 | | SP | SAND Dark grey, wet, medium dense, poorly graded | 83 | 19 | | | | | | | | | | | | | | | | | |
| | | | | | 89 | | ☒ | 6 | 10 | 15 | 25 | | | | | | | | | | | | |
| | 20 | | | | 87 | 20 | | | | | | | | | | | | | | | | | |
| | 21 | | | | 91 | 21 | ☒ | 5 | 9 | 14 | 23 | | | | | | | | | | | | |
| | 22 | | SP | SAND, Black, wet, medium dense, poorly graded | 86 | 22 | | | | | | | | | | | | | | | | | |
| | | | | | 89 | | ☒ | 6 | 9 | 15 | 24 | | | | | | | | | | | | |
| | 23 | | SP | SAND Dark grey, wet, dense, poorly graded | 80 | 23 | | | | | | | | | | | | | | | | | |
| | 24 | | | | 87 | 24 | ☒ | 10 | 19 | 23 | 42 | | | | | | | | | | | | |
| 03/01/2023 | 25 | | SW | SAND Black, wet, dense, well graded | 86 | 25 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 10 | 22 | 24 | 46 | | | | | | | | | | | | |
| | 26 | | | | 84 | 26 | | | | | | | | | | | | | | | | | |
| | 27 | | | | 89 | 27 | ☒ | 11 | 19 | 25 | 44 | | | | | | | | | | | | |
| | 28 | | | | 90 | 28 | | | | | | | | | | | | | | | | | |
| | | | | | 87 | | ☒ | 9 | 19 | 21 | 40 | | | | | | | | | | | | |
| | 29 | | | | 96 | 29 | | | | | | | | | | | | | | | | | |
| | 30 | | CH | SILTY CLAY, Light grey, moist, very stiff, high plasticity | 96 | 30 | ☒ | 6 | 10 | 13 | 23 | | | | | | | | | | | | |
| | | | | End of Boring | | | | | | | | | | | | | | | | | | | |

Prepared By : Arif



PT. TARUMANEGARA Bumiyasa

# BORING LOG

Project No. : 1S.22135
Project : MMKSI TRAINING CENTER
Location : Kaw. MM2100 NR-1, Bekasi - Jawa Barat

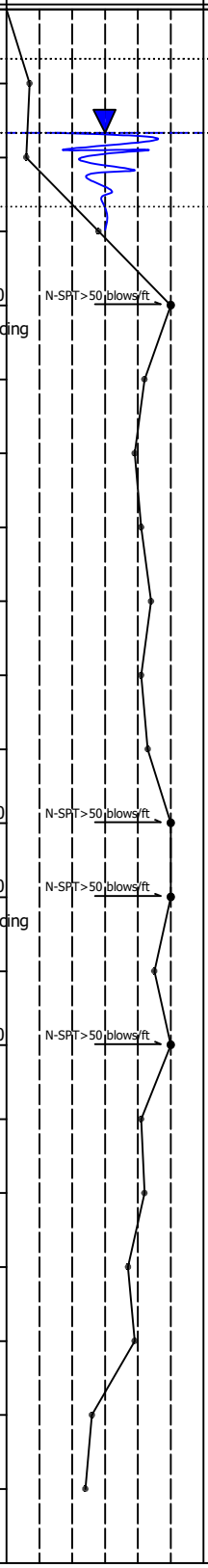
Coordinate : 0730015 - 9304062
Elevation : -
GWL : 2.50 m
Start Date : 04/01/2023
Finish Date : 06/01/2023
Bore Depth : 30.00 m
Core Dia. : 7.30 cm
Casing Dia. : 10.16 cm

Driller : Suyanto B.
Hammer Type : Automatic Trip Hammer
Hammer No : 06
Hammer Energy : 60.1 % - 82.7 %

**Log No.** **DB3**

Remarks :
Undisturbed Sample ( UDS ) | Split Spoon | Casing | Spare Sample | Bag Sample

| Date of Boring | Depth (m) | Legend | Symbol | Description | Sampling: Recovery (%) | Sampling: Depth (m) | Sampling: Sample | Standard Penetration Test: Blows Per Each 15 cm N1 | N2 | N3 | N | Laboratory Test: Strength Test: Type | $c_u$ / c' (kg/cm²) | $\phi_u$ / $\phi$' (°) | $q_u$ (kg/cm²) | γt t/m³ | Gs | e | Atterberg Limit (%): Wn | LL | PL | LI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/01/2023 | 1 | | CL | SILTY CLAY, Red, moist, containing a few of gravel, low plasticity | 100 / 86 | 1 | UDS | | | | | | | | | | | | | | | |
| | 2 | | CL | SILTY CLAY, Red, moist, medium stiff, low plasticity DB3 - UD1 : 0.50 - 1.00 m | 100 / 96 / 90 | 2 | SPT / UDS | 3 | 3 | 4 | 7 | | | | | | | | | | | |
| | 3 | | ML | CLAYEY SILT Red, moist, low plasticity DB3 - UD2 : 2.00 - 2.50 m | 100 / 90 / 80 | 3 | SPT / UDS | 2 | 3 | 3 | 6 | | | | | | | | | | | |
| | 4 | | ML | CLAYEY SILT, Red, moist, medium stiff, containing a few of gravel, low plasticity DB3 - UD3 : 3.50 - 4.00 m | 100 / 93 | 4 | UDS / SPT | 7 | 11 | 17 | 28 | | | | | | | | | | | |
| | 5 | | | | | 5 | | | | | | | | | | | | | | | | |
| | 6 | | ML | SILT, Greyish brown, moist, very stiff, low plasticity | 67 / 95 | 6 | SPT | 15 | 33 | 50 | >50 | | | | | | | | | | | |
| | 7 | | ML | CEMENTED SILT, Brown, moist, hard, low plasticity | 98 | 7 | SPT | 12 | 17 | 25 | 42 | | | | | | | | | | | |
| | 8 | | SW | SAND Black, wet, dense to very dense, well graded | 100 | 8 | | | | | | | | | | | | | | | | |
| | 9 | | | | 100 | 9 | SPT | 11 | 15 | 24 | 39 | | | | | | | | | | | |
| | 10 | | | | 99 / 96 | 10 | SPT | 10 | 15 | 26 | 41 | | | | | | | | | | | |
| | 11 | | | | 98 | 11 | | | | | | | | | | | | | | | | |
| | 12 | | | | 100 | 12 | SPT | 12 | 17 | 27 | 44 | | | | | | | | | | | |
| 05/01/2023 | 13 | | | | 100 | 13 | | | | | | | | | | | | | | | | |
| | | | | | 93 | | SPT | 11 | 16 | 25 | 41 | | | | | | | | | | | |
| | 14 | | | | 91 | 14 | | | | | | | | | | | | | | | | |
| | 15 | | | | 91 | 15 | SPT | 10 | 17 | 26 | 43 | | | | | | | | | | | |
| | 16 | | | | 98 | 16 | | | | | | | | | | | | | | | | |
| | | | SW | CEMENTED SAND, Brown, moist, dense, well graded | 56 | | SPT | 31 | 50 | - | >50 | | | | | | | | | | | |
| | 17 | | ML | CEMENTED SILT, Dark grey, moist, hard, low plasticity | 80 | 17 | | | 6 Bouncing | | | | | | | | | | | | | |
| | 18 | | | | 67 | 18 | SPT | 15 | 33 | 50 | >50 | | | | | | | | | | | |
| | 19 | | SW | SAND Black, wet, very dense, well graded | 100 | 19 | | | | 7 Bouncing | | | | | | | | | | | | |
| | | | | | 98 | | SPT | 12 | 18 | 27 | 45 | | | | | | | | | | | |
| | 20 | | SW | GRAVELLY SAND Black, wet, very dense, well graded | 100 / 100 | 20 | | | | | | | | | | | | | | | | |
| | 21 | | | | 89 | 21 | SPT | 17 | 26 | 33 | >50 | | | | | | | | | | | |
| | 22 | | SW | SAND Black, wet, dense to very dense, well graded | 98 / 89 | 22 | SPT | 9 | 15 | 26 | 41 | | | | | | | | | | | |
| 06/01/2023 | 23 | | | | 100 | 23 | | | | | | | | | | | | | | | | |
| | 24 | | | | 91 | 24 | SPT | 10 | 17 | 25 | 42 | | | | | | | | | | | |
| | 25 | | | | 100 / 98 | 25 | SPT | 8 | 14 | 23 | 37 | | | | | | | | | | | |
| | 26 | | | | 100 | 26 | | | | | | | | | | | | | | | | |
| | 27 | | | | 100 | 27 | SPT | 7 | 15 | 24 | 39 | | | | | | | | | | | |
| | 28 | | CH | SILTY CLAY Grey, moist, hard, high plasticity | 98 / 100 | 28 | SPT | 5 | 11 | 15 | 26 | | | | | | | | | | | |
| | 29 | | | | 99 | 29 | | | | | | | | | | | | | | | | |
| | 30 | | | | 100 | 30 | SPT | 6 | 10 | 14 | 24 | | | | | | | | | | | |
| | | | | End of Boring | | | | | | | | | | | | | | | | | | |




Prepared By : Arif



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**PT. TARUMANEGARA Bumiyasa**

# BORING LOG

Project No. : 1S.22135
Project : MMKSI TRAINING CENTER
Location : Kaw. MM2100 NR-1, Bekasi - Jawa Barat

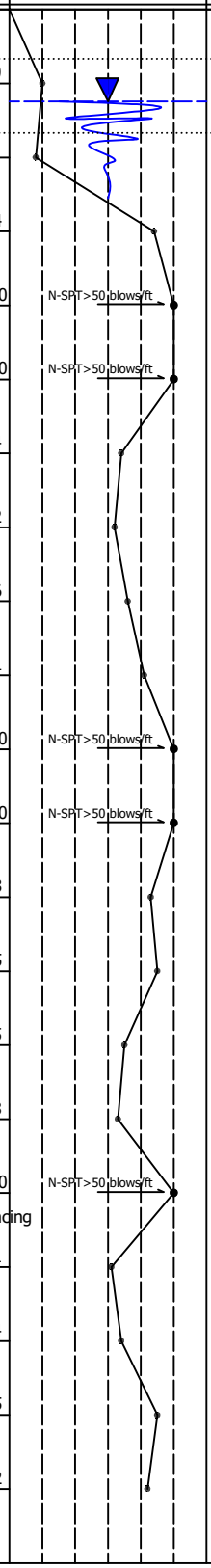
Coordinate : 0729979 - 9304029
Elevation : -
GWL : 1.90 m
Start Date : 07/01/2023
Finish Date : 10/01/2023
Bore Depth : 30.00 m
Core Dia. : 7.30 cm
Casing Dia. : 10.16 cm

Driller : Widhi
Hammer Type : Automatic Trip Hammer
Hammer No : 04
Hammer Energy : 59.4 % - 73.2 %

**Log No. DB4**

Remarks :
Undisturbed Sample ( UDS ) | Split Spoon | Casing | Spare Sample | Bag Sample

| Date of Boring | Depth (m) | Legend | Symbol | Description | Sampling: Recovery (%) | Sampling: Depth (m) | Sampling: Sample | Standard Penetration Test: Blows Per Each 15 cm N1 | N2 | N3 | N | Laboratory Test: Strength Test Type | $c_u$ / c' (kg/cm²) | $\phi_u$ / $\phi$' (°) | $q_u$ (kg/cm²) | γt t/m³ | Gs | e | Atterberg Limit (%) Wn | LL | PL | LI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07/01/2023 | 1 | | ML | CLAYEY SILT Brown, moist, stiff, low plasticity DB4 - UD1 : 0.50 - 1.00 m | 100 | 1 | | | | | | | | | | | | | | | | |
| | | | | | 94 | | | | | | | | | | | | | | | | | |
| | | | | | 93 | | ☒ | 3 | 4 | 6 | 10 | | | | | | | | | | | |
| | 2 | | ML | CLAYEY SILT, Yellowish dark brown, moist, stiff, low plasticity DB4 - UD2 : 2.00 - 2.50 m | 100 | 2 | | | | | | | | | | | | | | | | |
| | | | | | 96 | | | | | | | | | | | | | | | | | |
| | 3 | | | | 98 | 3 | ☒ | 3 | 4 | 4 | 8 | | | | | | | | | | | |
| | 4 | | ML | CLAYEY SILT Brown, moist, stiff, high plasticity | 98 | 4 | | | | | | | | | | | | | | | | |
| | | | ML | CLAYEY SILT, Yellowish light grey, moist, hard, containing a few of gravel, low plasticity | 96 | | ☒ | 10 | 18 | 26 | 44 | | | | | | | | | | | |
| | 5 | | | | 83 | 5 | | | | | | | | | | | | | | | | |
| | 6 | | ML | GRAVELLY SILT Yellowish brown, moist, hard, low plasticity | 93 | 6 | ☒ | 16 | 24 | 33 | >50 | N-SPT>50 blows/ft | | | | | | | | | | |
| | 7 | | | | 81 | 7 | | | | | | | | | | | | | | | | |
| | | | | | 44 | | ☒ | 24 | 50 | - | >50 | N-SPT>50 blows/ft | | | | | | | | | | |
| 08/01/2023 | 8 | | SP | CEMENTED SAND, Blackish grey, moist, dense, poorly graded | 81 | 8 | | | 7 | Bouncing | | | | | | | | | | | | |
| | 9 | | SW | SAND Black, wet, dense, well graded | 96 | 9 | ☒ | 7 | 14 | 20 | 34 | | | | | | | | | | | |
| | 10 | | | | 94 | 10 | | | | | | | | | | | | | | | | |
| | | | | | 96 | | ☒ | 6 | 13 | 19 | 32 | | | | | | | | | | | |
| | 11 | | | | 93 | 11 | | | | | | | | | | | | | | | | |
| | 12 | | | | 91 | 12 | ☒ | 7 | 15 | 21 | 36 | | | | | | | | | | | |
| | 13 | | | | 89 | 13 | | | | | | | | | | | | | | | | |
| | | | | | 87 | | ☒ | 8 | 14 | 27 | 41 | | | | | | | | | | | |
| | 14 | | SP | SAND Blackish grey, wet, very dense, poorly graded | 73 | 14 | | | | | | | | | | | | | | | | |
| | 15 | | | | 71 | 15 | ☒ | 14 | 23 | 32 | >50 | N-SPT>50 blows/ft | | | | | | | | | | |
| | 16 | | ML | GRAVELLY SILT, Blackish grey, moist, containing a few of fine sand, low plasticity | 87 | 16 | | | | | | | | | | | | | | | | |
| | | | | | 96 | | ☒ | 12 | 21 | 32 | >50 | N-SPT>50 blows/ft | | | | | | | | | | |
| | 17 | | ML | SILT, Dark grey, moist, hard, containing a few of fine sand, low plasticity | 86 | 17 | | | | | | | | | | | | | | | | |
| | 18 | | | | 91 | 18 | ☒ | 10 | 21 | 22 | 43 | | | | | | | | | | | |
| 09/01/2023 | 19 | | SW | SAND Black, wet, dense, well graded | 84 | 19 | | | | | | | | | | | | | | | | |
| | | | | | 87 | | ☒ | 10 | 19 | 26 | 45 | | | | | | | | | | | |
| | 20 | | | | 85 | 20 | | | | | | | | | | | | | | | | |
| | 21 | | | | 89 | 21 | ☒ | 9 | 11 | 24 | 35 | | | | | | | | | | | |
| | 22 | | | | 84 | 22 | | | | | | | | | | | | | | | | |
| | | | | | 87 | | ☒ | 7 | 12 | 21 | 33 | | | | | | | | | | | |
| | 23 | | ML | CEMENTED SILT Grey, moist, hard, containing a few of fine sand, low plasticity | 96 | 23 | | | | | | | | | | | | | | | | |
| | 24 | | | | 91 | 24 | ☒ | 24 | 38 | 25 | >50 | N-SPT>50 blows/ft | | | | | | | | | | |
| 10/01/2023 | | | SW | SAND Black, wet, dense, well graded | 92 | | | | | 6 | Bouncing | | | | | | | | | | | |
| | 25 | | | | 84 | 25 | ☒ | 7 | 12 | 19 | 31 | | | | | | | | | | | |
| | 26 | | | | 89 | 26 | | | | | | | | | | | | | | | | |
| | 27 | | | | 82 | 27 | ☒ | 8 | 13 | 21 | 34 | | | | | | | | | | | |
| | 28 | | ML | SILT Light grey, moist, hard, low plasticity | 97 | 28 | | | | | | | | | | | | | | | | |
| | | | | | 98 | | ☒ | 11 | 21 | 24 | 45 | | | | | | | | | | | |
| | 29 | | | | 96 | 29 | | | | | | | | | | | | | | | | |
| | 30 | | | | 93 | 30 | ☒ | 9 | 18 | 24 | 42 | | | | | | | | | | | |
| | | | | End of Boring | | | | | | | | | | | | | | | | | | |




Prepared By : Arif



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**PT. TARUMANEGARA Bumiyasa**

# BORING LOG

Project No. : 1S.22135
Project : MMKSI TRAINING CENTER
Location : Kaw. MM2100 NR-1, Bekasi - Jawa Barat

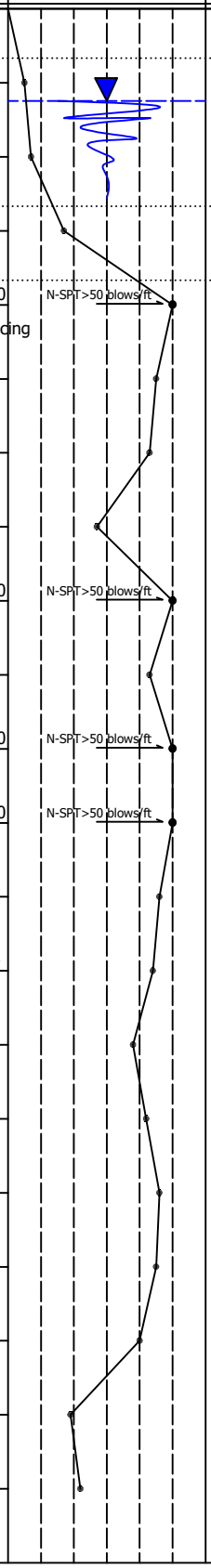
Coordinate : 0729960 - 9304084
Elevation : -
GWL : 1.90 m
Start Date : 04/01/2023
Finish Date : 06/01/2023
Bore Depth : 30.00 m
Core Dia. : 7.30 cm
Casing Dia. : 10.16 cm

Driller : Widhi
Hammer Type : Automatic Trip Hammer
Hammer No : 04
Hammer Energy : 59.4 % - 73.2 %

Log No. **DB5**

Remarks :
Undisturbed Sample ( UDS ) | Split Spoon | Casing | Spare Sample | Bag Sample

| Date of Boring | Depth (m) | Legend | Symbol | Description | Recovery (%) | Depth (m) | Sample | N1 | N2 | N3 | N | N - Value | Type | $c_u$ / c' (kg/cm²) | $\phi_u$ / $\phi'$ (°) | $q_u$ (kg/cm²) | γt t/m³ | Gs | e | Wn | LL | PL | LI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/01/2023 | 1 | | ML | CLAYEY SILT, Brown, moist, medium stiff, low plasticity | 100 | 1 | | | | | | | | | | | | | | | | | |
| | | | | DB5 - UD1 : 0.50 - 1.00 m | 92 | | | | | | | | | | | | | | | | | | |
| | | | | | 98 | | ☒ | 2 | 2 | 3 | 5 | | | | | | | | | | | | |
| | 2 | | ML | CLAYEY SILT Light brown, moist, medium stiff, low plasticity | 97 | 2 | | | | | | | | | | | | | | | | | |
| | 3 | | | | 93 | 3 | ☒ | 2 | 3 | 4 | 7 | | | | | | | | | | | | |
| | | | | DB5 - UD2 : 3.50 - 4.00 m | 100 | | | | | | | | | | | | | | | | | | |
| | 4 | | | | 96 | 4 | | | | | | | | | | | | | | | | | |
| | | | CH | SILTY CLAY, Reddish light grey, moist, very stiff, high plasticity | 96 | | ☒ | 5 | 7 | 10 | 17 | | | | | | | | | | | | |
| | 5 | | | | 96 | 5 | | | | | | | | | | | | | | | | | |
| | | | MH | SILT, Yellowish light grey, moist, high plasticity | 94 | | | | | | | | | | | | | | | | | | |
| | 6 | | | | 96 | 6 | ☒ | 23 | 36 | 50 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | | | | DB5 - UD3 : 5.00 - 5.50 m | | | | | | 5 Bouncing | | | | | | | | | | | | | |
| | 7 | | ML | SILT, Yellow, moist, hard, containing a few of sand, low plasticity | 89 | 7 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 13 | 18 | 27 | 45 | | | | | | | | | | | | |
| | 8 | | | | 87 | 8 | | | | | | | | | | | | | | | | | |
| | | | ML | SILT, Yellowish light brown, moist, hard, containing a few of sand, low plasticity | | | | | | | | | | | | | | | | | | | |
| | 9 | | | | 93 | 9 | ☒ | 11 | 16 | 27 | 43 | | | | | | | | | | | | |
| | | | | | 94 | | | | | | | | | | | | | | | | | | |
| | 10 | | ML | SILT Dark grey, moist, very stiff, low plasticity | | 10 | | | | | | | | | | | | | | | | | |
| | | | | | 98 | | ☒ | 9 | 11 | 16 | 27 | | | | | | | | | | | | |
| | 11 | | | | 95 | 11 | | | | | | | | | | | | | | | | | |
| | | | ML | SILT, Yellowish dark grey, moist, hard, containing a few of fine sand, low plasticity | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | 96 | 12 | ☒ | 11 | 24 | 28 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | | | | | 89 | | | | | | | | | | | | | | | | | | |
| | 13 | | SP | SAND, Blackish dark grey, wet, dense, poorly graded | | 13 | | | | | | | | | | | | | | | | | |
| | | | | | 89 | | ☒ | 10 | 17 | 26 | 43 | | | | | | | | | | | | |
| 05/01/2023 | 14 | | ML | SILT Dark grey, moist, hard, containing a few of fine sand, low plasticity | 97 | 14 | | | | | | | | | | | | | | | | | |
| | 15 | | | | 96 | 15 | ☒ | 13 | 24 | 29 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 16 | | | | 95 | 16 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 14 | 23 | 34 | >50 | N-SPT>50 blows/ft | | | | | | | | | | | |
| | 17 | | SW | SAND Black, wet, dense, well graded | 88 | 17 | | | | | | | | | | | | | | | | | |
| | 18 | | | | 89 | 18 | ☒ | 12 | 22 | 24 | 46 | | | | | | | | | | | | |
| | 19 | | | | 86 | 19 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 10 | 19 | 25 | 44 | | | | | | | | | | | | |
| | 20 | | | | 91 | 20 | | | | | | | | | | | | | | | | | |
| | | | ML | SILT, Greenish light grey, moist, hard, containing a few of fine sand, low plasticity | | | | | | | | | | | | | | | | | | | |
| | 21 | | | | 96 | 21 | ☒ | 9 | 14 | 24 | 38 | | | | | | | | | | | | |
| | | | | | 89 | | | | | | | | | | | | | | | | | | |
| | 22 | | SP | SAND Grey, wet, dense, poorly graded | | 22 | | | | | | | | | | | | | | | | | |
| | | | | | 91 | | ☒ | 10 | 17 | 25 | 42 | | | | | | | | | | | | |
| | 23 | | | | 86 | 23 | | | | | | | | | | | | | | | | | |
| 06/01/2023 | 24 | | | | 89 | 24 | ☒ | 10 | 22 | 24 | 46 | | | | | | | | | | | | |
| | | | | | 88 | | | | | | | | | | | | | | | | | | |
| | 25 | | SW | SAND Blackish grey, wet, dense, well graded | | 25 | | | | | | | | | | | | | | | | | |
| | | | | | 84 | | ☒ | 11 | 17 | 28 | 45 | | | | | | | | | | | | |
| | 26 | | | | 87 | 26 | | | | | | | | | | | | | | | | | |
| | 27 | | | | 87 | 27 | ☒ | 9 | 16 | 24 | 40 | | | | | | | | | | | | |
| | | | CH | SILTY CLAY Light grey, moist, very stiff, high plasticity | 99 | | | | | | | | | | | | | | | | | | |
| | 28 | | | | 98 | 28 | ☒ | 5 | 8 | 11 | 19 | | | | | | | | | | | | |
| | 29 | | | | 98 | 29 | | | | | | | | | | | | | | | | | |
| | 30 | | | | 96 | 30 | ☒ | 6 | 9 | 13 | 22 | | | | | | | | | | | | |
| | | | | End of Boring | | | | | | | | | | | | | | | | | | | |




Prepared By : Arif



APP XIII/6

**PT. TARUMANEGARA Bumiyasa**