

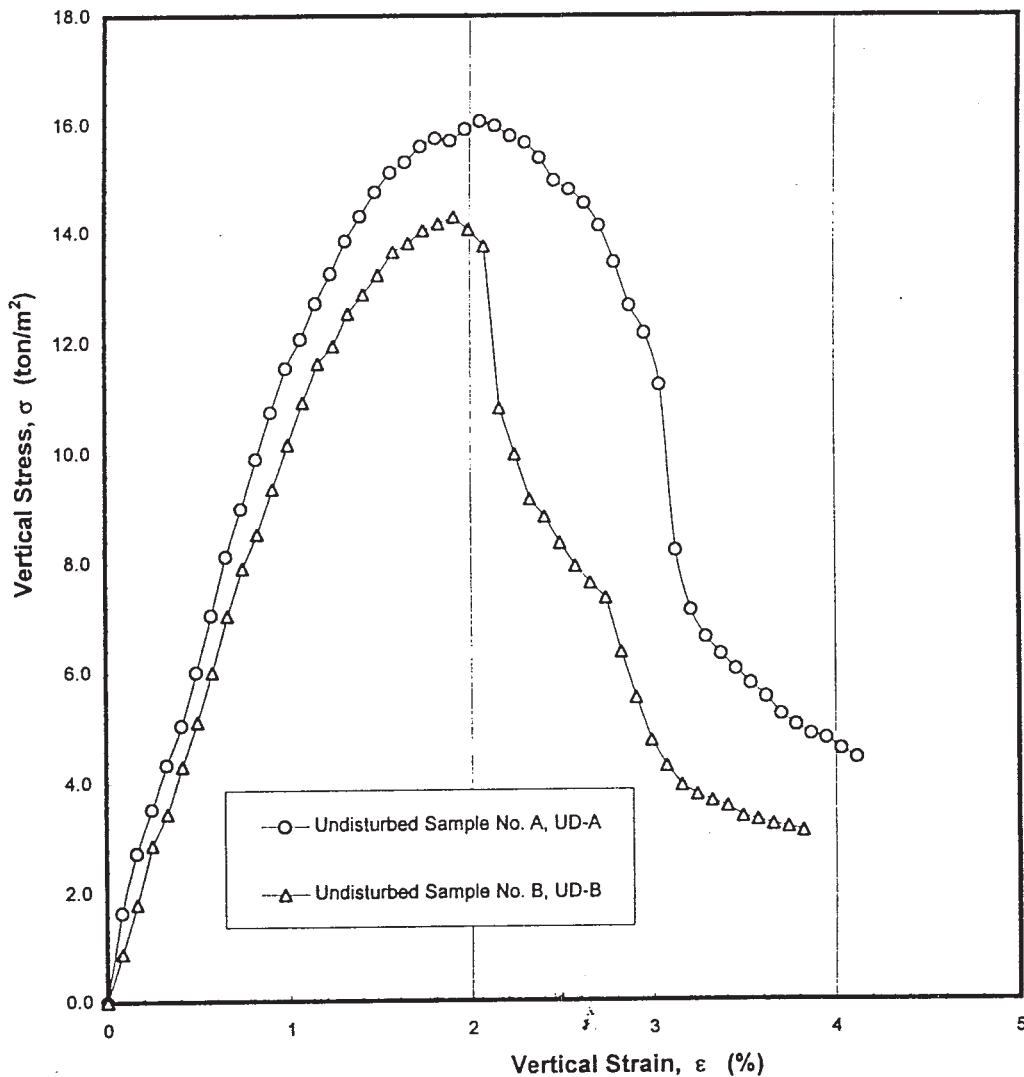


SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Landsubsidence at Siem Reap Borehole No: WT-5
 Location: Cambodia Sample No: DB-3
 Tested by: Jintana Date: Aug-97 Depth (m.) 46.70 - 47.00

| Test Summary | | | |
|--|------------|------|--------------------|
| Soil Description: | Sandy CLAY | | |
| Test No. | UD-A | UD-B | |
| Water Content, w_n | 6.1 | 6.8 | % |
| Total Unit Weight, γ_t | 2.20 | 2.24 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 16.1 | 14.3 | ton/m ² |
| Undrained Shear Strength, c_u | 8.0 | 7.1 | ton/m ² |
| Strain at Failure, ϵ_f | 2.1 | 1.9 | % |
| Modulus at 50% Stress Level, E_{50} | 1225 | 1059 | ton/m ² |
| Failure Mode | | | |

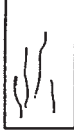


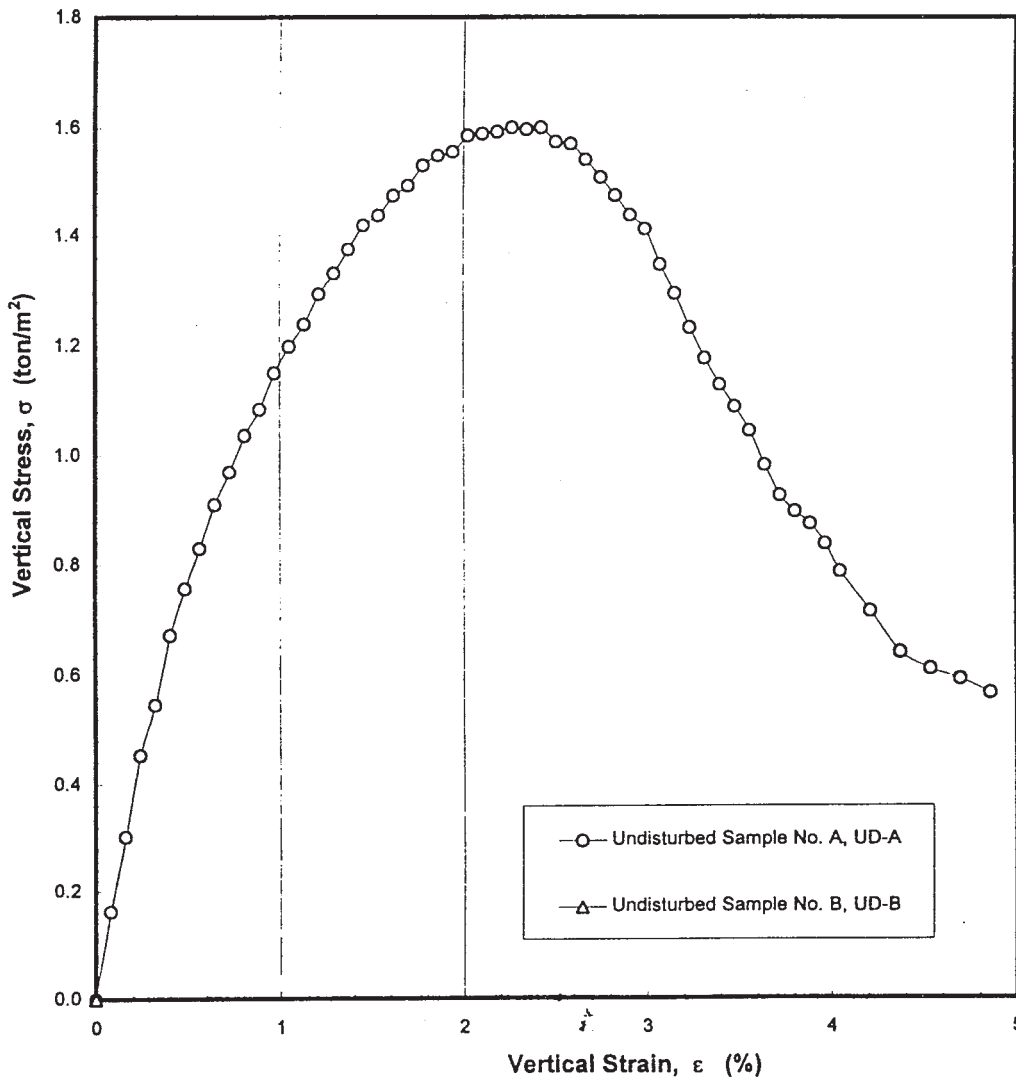


SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Landsubsidence at Siem Reap Borehole No: WT-5
Location: Cambodia Sample No: DB-4
Tested by: Jintana Date: Aug-97 Depth (m.): 53.60 - 53.90

| Test Summary | | |
|--|--|--------------------|
| Soil Description: | Sandy CLAY | |
| Test No. | UD-A | |
| Water Content, w_n | 9.5 | % |
| Total Unit Weight, γ_t | 2.27 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 1.6 | ton/m ² |
| Undrained Shear Strength, c_u | 0.8 | ton/m ² |
| Strain at Failure, ϵ_f | 2.4 | % |
| Modulus at 50% Stress Level, E_{50} | 156 | ton/m ² |
| Failure Mode |  | |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Landsubside at Siem Reap

Borehole No: WT-5



Location: Cambodia

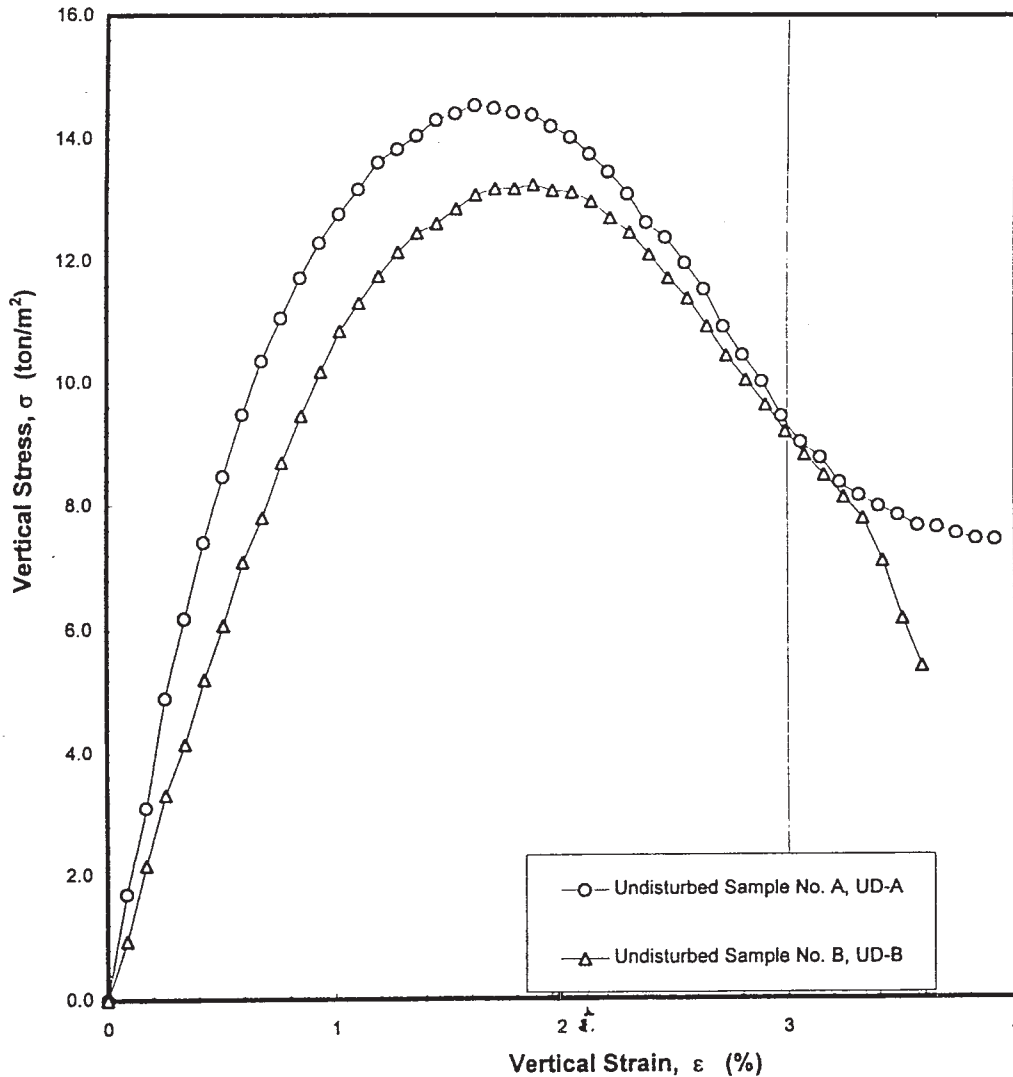
Sample No: DB-5

Tested by: Jintana

Date: Aug-97

Depth (m.): 58.50 - 59.00

| Test Summary | | | |
|--|---|---|--------------------|
| Soil Description: | Sandy CLAY | | |
| Test No. | UD-A | UD-B | |
| Water Content, w_n | 8.8 | 8.2 | % |
| Total Unit Weight, γ_t | 2.30 | 2.25 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 14.5 | 13.3 | ton/m ² |
| Undrained Shear Strength, c_u | 7.3 | 6.6 | ton/m ² |
| Strain at Failure, ϵ_f | 1.6 | 1.9 | % |
| Modulus at 50% Stress Level, E_{50} | 1819 | 965 | ton/m ² |
| Failure Mode |  |  | |




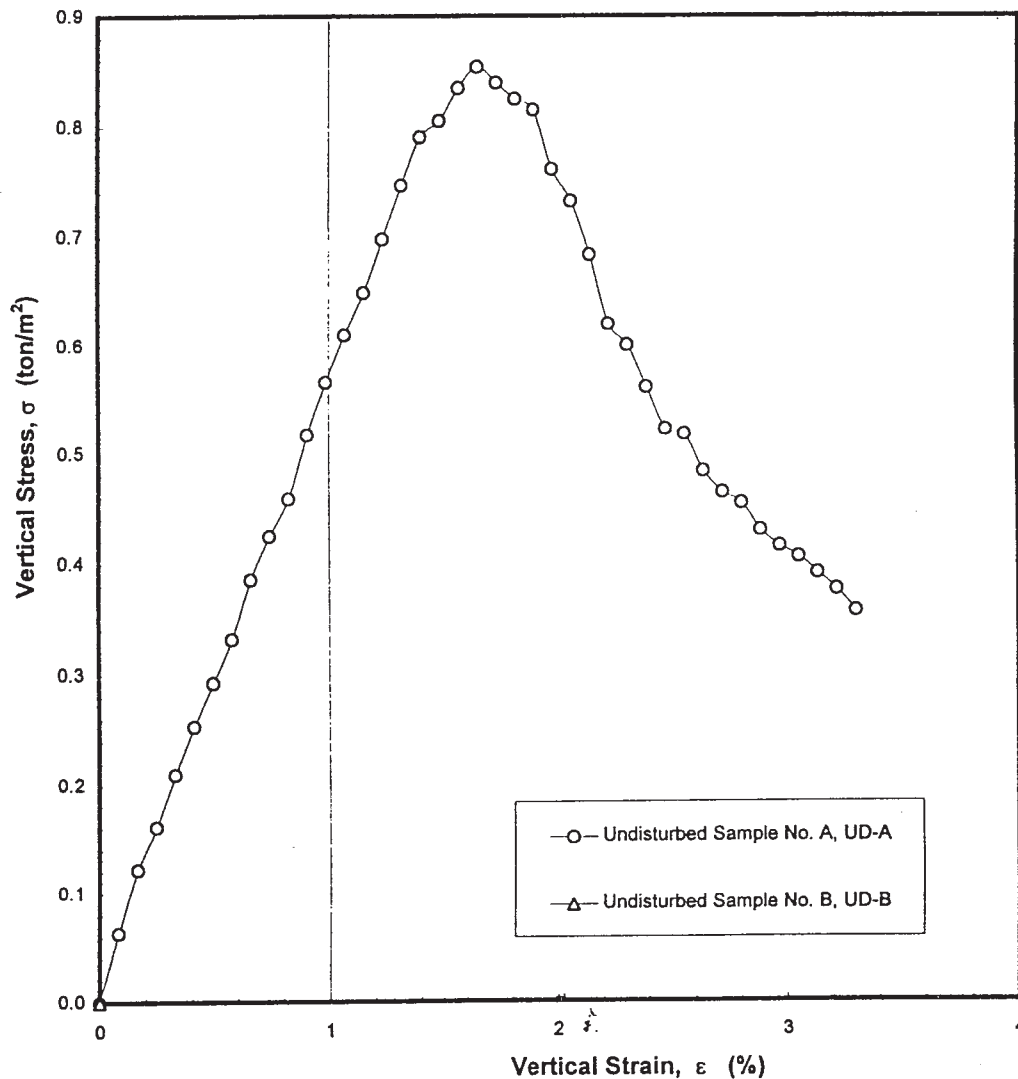


SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Landsubsideance at Siem Reap Borehole No: WT-5
Location: Cambodia Sample No: DB-7
Tested by: Jintana Date: Aug-97 Depth (m.): 78.40 - 78.80

| Test Summary | | |
|--|--|--------------------|
| Soil Description: | Clayey SAND | |
| Test No. | UD-A | |
| Water Content, w_n | 9.9 | % |
| Total Unit Weight, γ_t | 2.13 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 0.9 | ton/m ² |
| Undrained Shear Strength, c_u | 0.4 | ton/m ² |
| Strain at Failure, ϵ_f | 1.6 | % |
| Modulus at 50% Stress Level, E_{50} | 57 | ton/m ² |
| Failure Mode |  | |




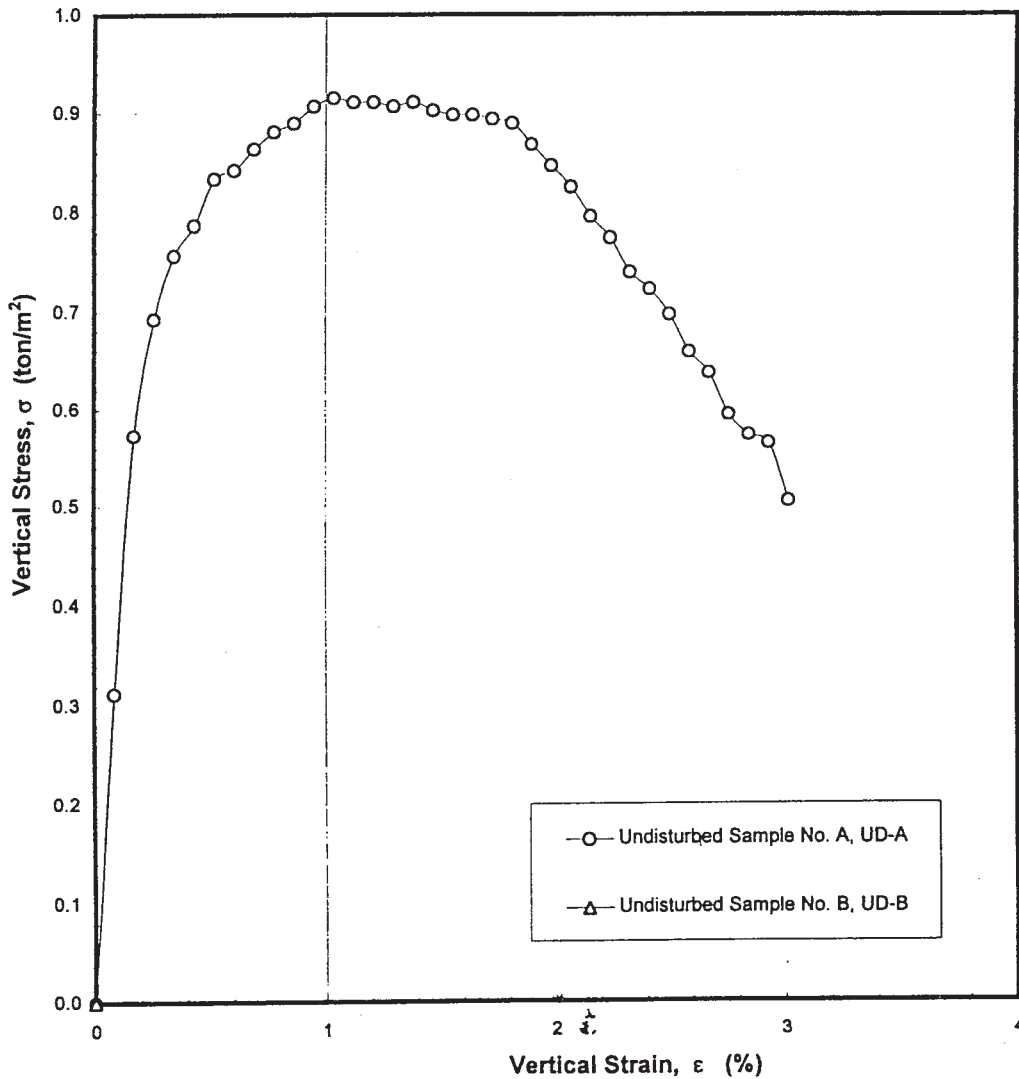


SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Landsubside at Siem Reap Borehole No: WT-8
 Location: Cambodia Sample No: DB-1
 Tested by: Jintana Date: Aug-97 Depth (m.): 9.40 - 9.80

| Test Summary | | |
|--|--|--------------------|
| Soil Description: | Clayey SAND | |
| Test No. | UD-A | |
| Water Content, w_n | 9.5 | % |
| Total Unit Weight, γ_t | 2.13 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 0.9 | ton/m ² |
| Undrained Shear Strength, c_u | 0.5 | ton/m ² |
| Strain at Failure, ϵ_f | 1.0 | % |
| Modulus at 50% Stress Level, E_{50} | 362 | ton/m ² |
| Failure Mode |  | |





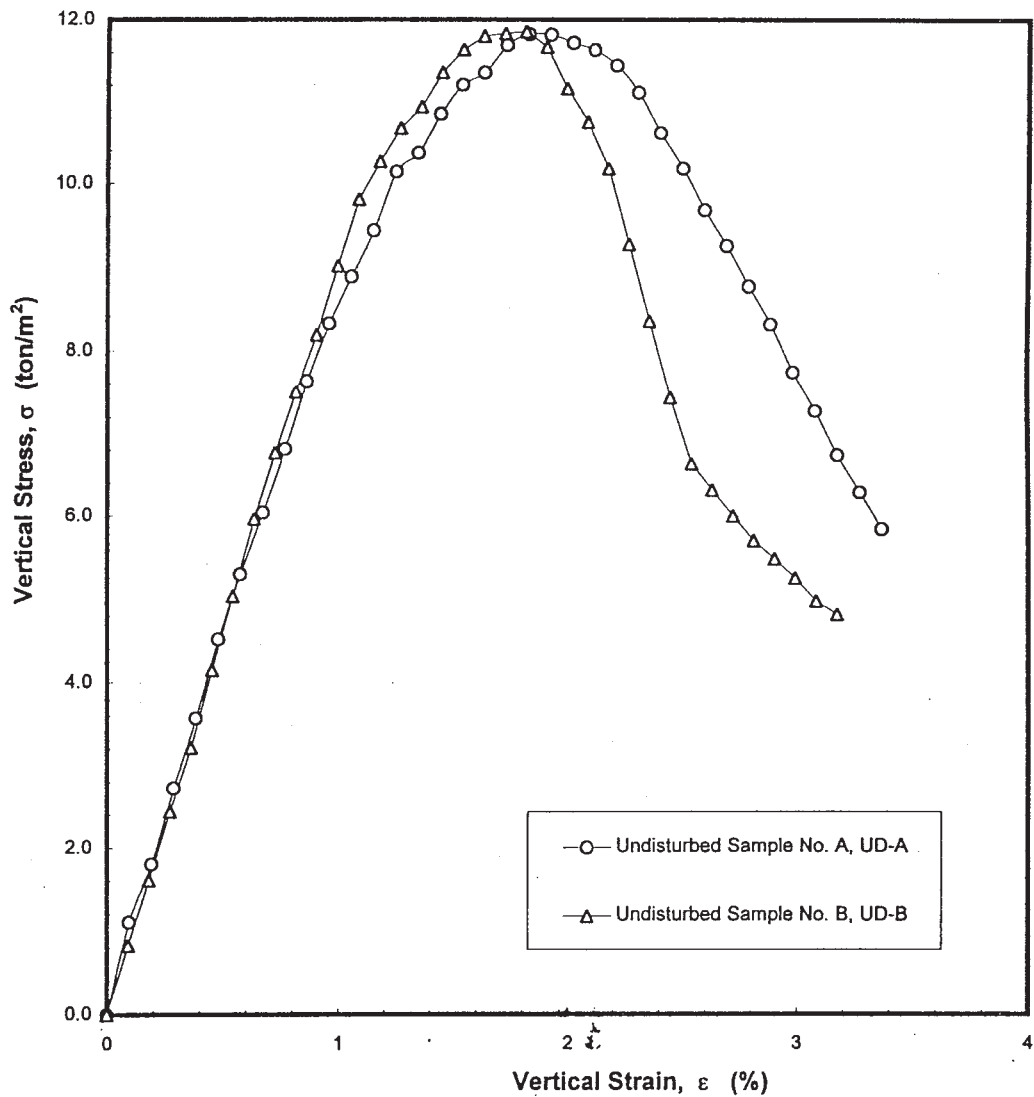


SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Landsubsidence at Siem Reap Borehole No: WT-8
 Location: Cambodia Sample No: DB-3
 Tested by: Jintana Date: Aug-97 Depth (m.): 45.50 - 45.90

| Test Summary | | | |
|--|---|--|--------------------|
| Soil Description: | Silty SAND | | |
| Test No. | UD-A | UD-B | |
| Water Content, w_n | 8.4 | 6.7 | % |
| Total Unit Weight, γ_t | 2.17 | 2.23 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 11.8 | 11.9 | ton/m ² |
| Undrained Shear Strength, c_u | 5.9 | 5.9 | ton/m ² |
| Strain at Failure, ϵ_f | 1.8 | 1.8 | % |
| Modulus at 50% Stress Level, E_{50} | 918 | 927 | ton/m ² |
| Failure Mode |  |  | |





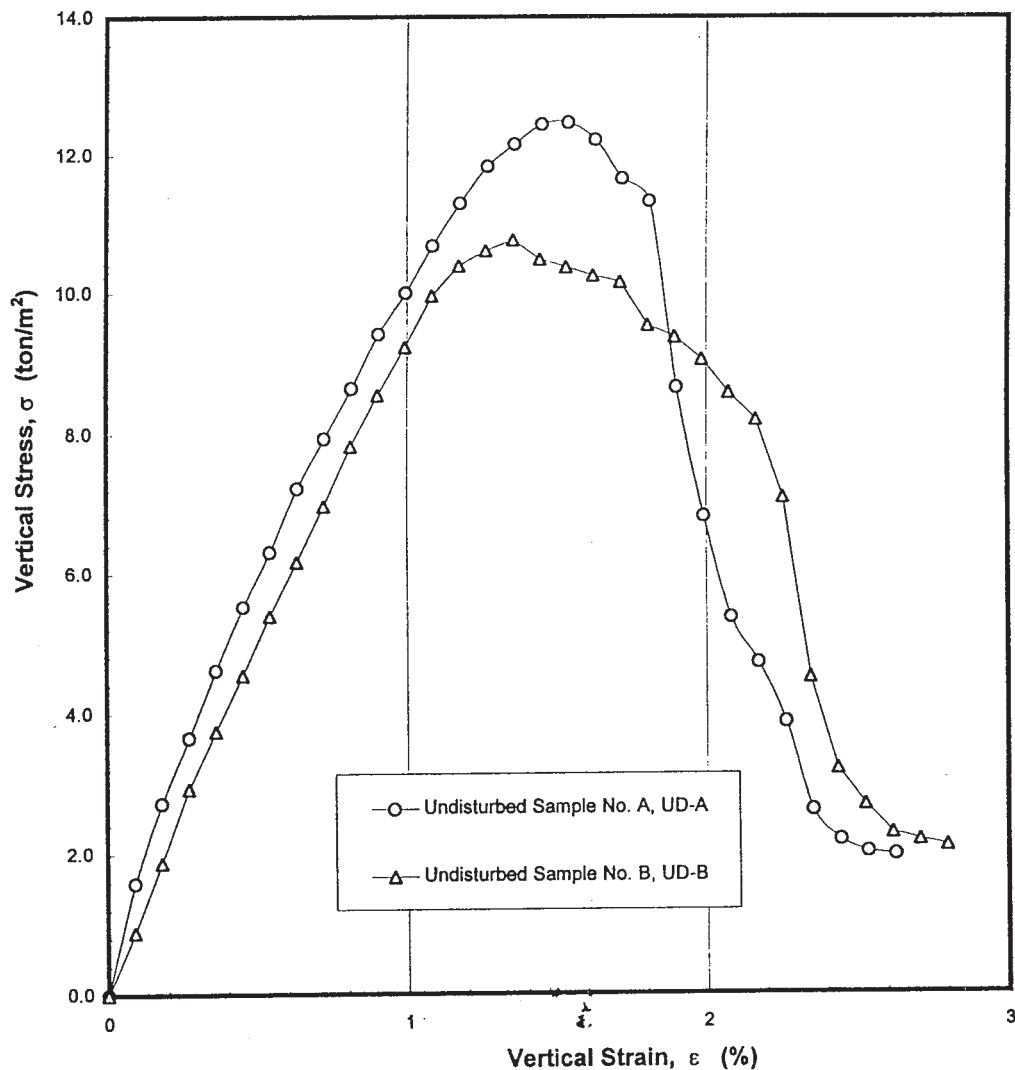


SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Landsubsideance at Siem Reap Borehole No: WT-8
 Location: Cambodia Sample No: DB-4
 Tested by: Jintana Date: Aug-97 Depth (m.): 53.05 - 53.35

| Test Summary | | | |
|--|---|--|--------------------|
| Soil Description: | Silty CLAY with sand | | |
| Test No. | UD-A | UD-B | |
| Water Content, w_n | 7.7 | 9.0 | % |
| Total Unit Weight, γ_t | 2.21 | 2.17 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 12.5 | 10.8 | ton/m ² |
| Undrained Shear Strength, c_u | 6.2 | 5.4 | ton/m ² |
| Strain at Failure, ϵ_f | 1.5 | 1.4 | % |
| Modulus at 50% Stress Level, E_{50} | 1220 | 992 | ton/m ² |
| Failure Mode |  |  | |




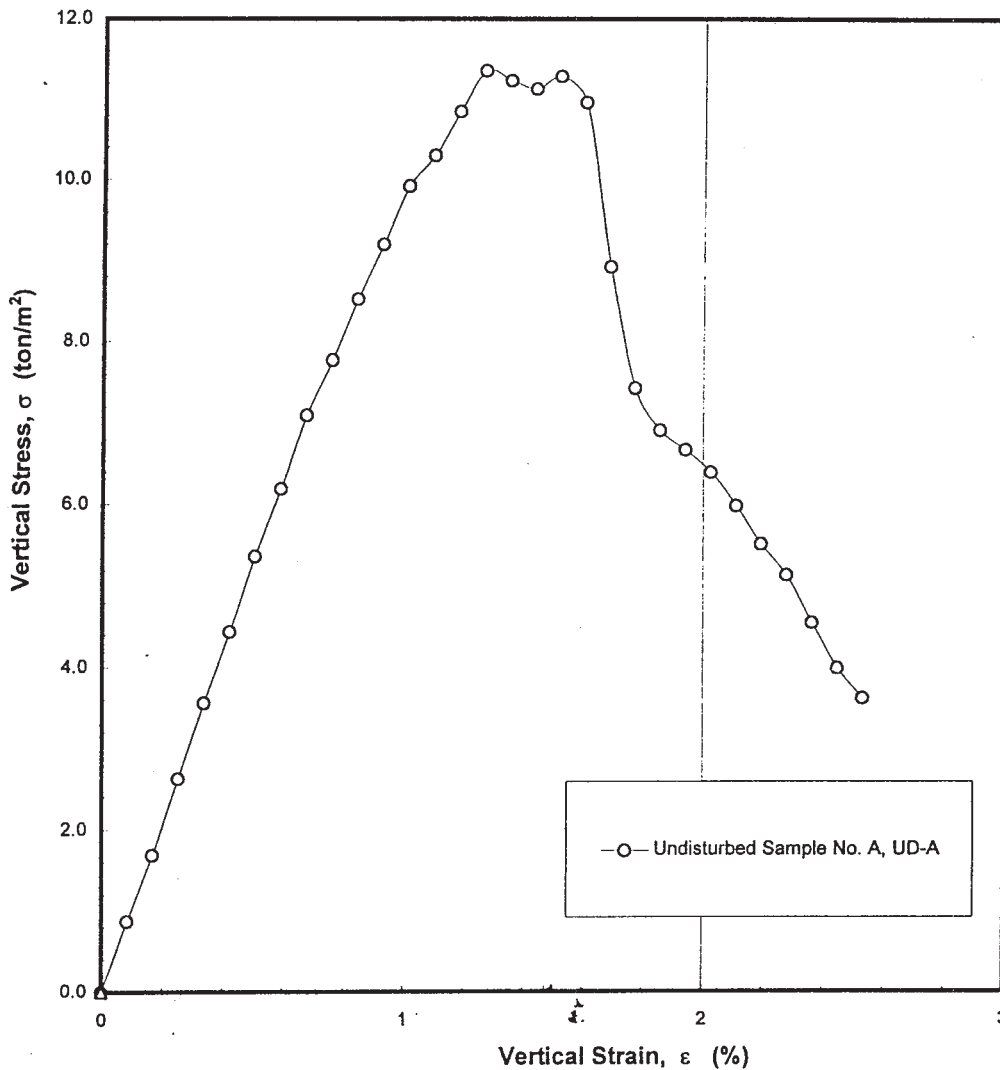


SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Landsubside at Siem Reap Borehole No: WT-8
Location: Cambodia Sample No: DB-6
Tested by: Jintana Date: Aug-97 Depth (m.): 80.00 - 80.40

| Test Summary | | |
|--|--|--------------------|
| Soil Description: | Silty CLAY with sand | |
| Test No. | UD-A | |
| Water Content, w_n | 8.7 | % |
| Total Unit Weight, γ_t | 2.26 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 11.4 | ton/m ² |
| Undrained Shear Strength, c_u | 5.7 | ton/m ² |
| Strain at Failure, ϵ_f | 1.3 | % |
| Modulus at 50% Stress Level, E_{50} | 1060 | ton/m ² |
| Failure Mode |  | |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Landsubside at Siem Reap

WT-8


Location: Cambodia

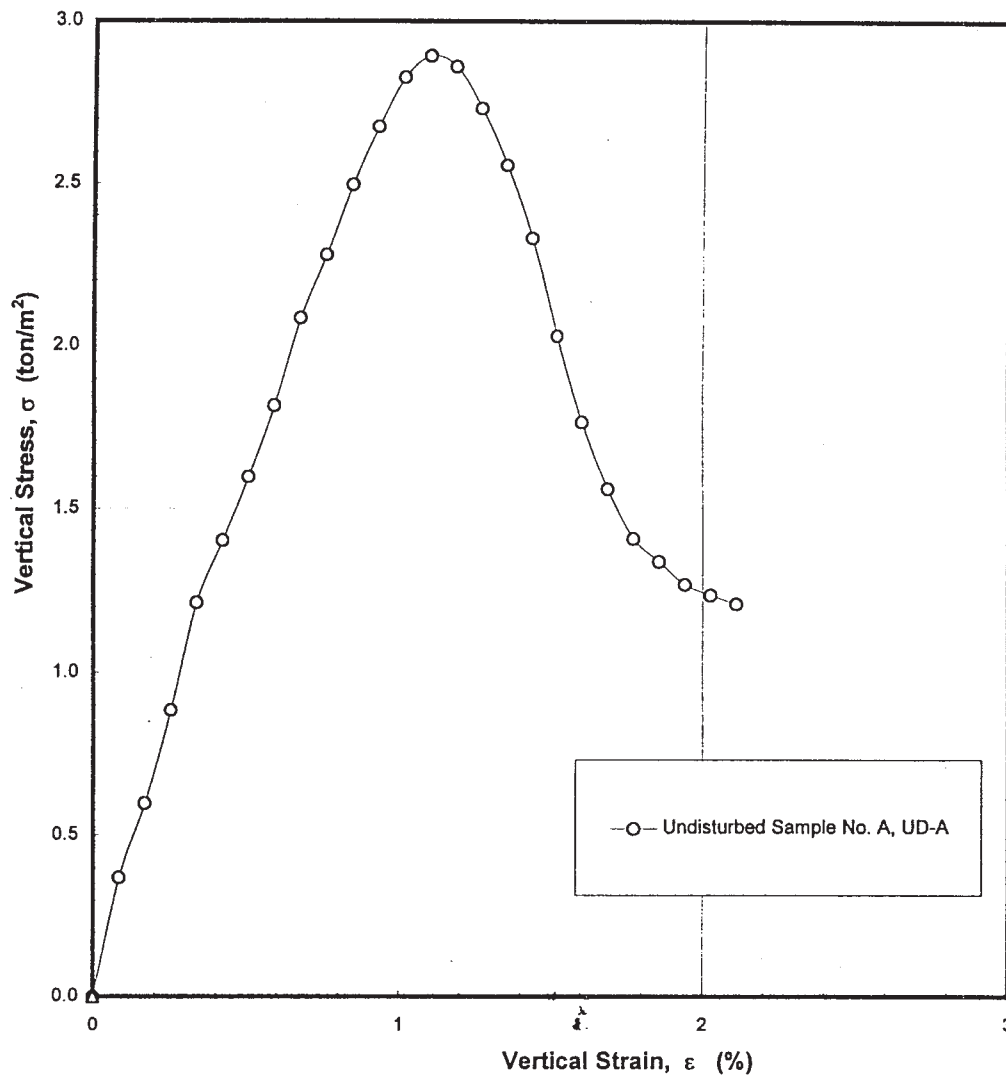
DB-7

Tested by: Jintana

Date: Aug-97

84.50 - 84.75

| Test Summary | | |
|--|--|--------------------|
| Soil Description: | Silly SAND | |
| Test No. | UD-A | |
| Water Content, w_n | 8.1 | % |
| Total Unit Weight, γ_t | 2.19 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 2.9 | ton/m ² |
| Undrained Shear Strength, c_u | 1.4 | ton/m ² |
| Strain at Failure, ϵ_f | 1.1 | % |
| Modulus at 50% Stress Level, E_{50} | 332 | ton/m ² |
| Failure Mode |  | |

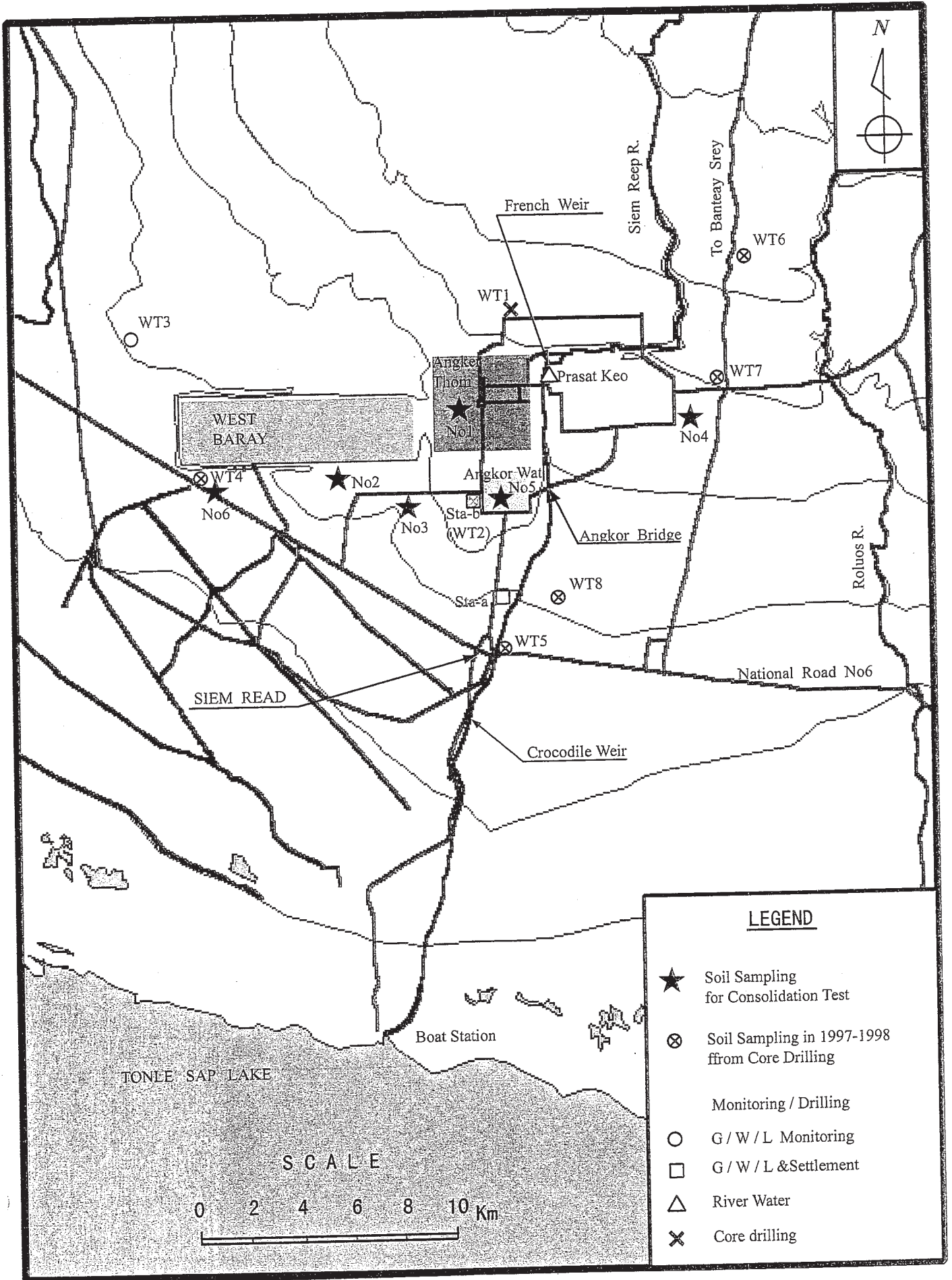


Soil Laboratory Test in 1998-1999(1/2)

| Hole No | Sample No | Depth (m) | E50 including plasticity creep area (ton/m ²) | E50 in Elastic area (ton/m ²) | Poisson's Ratio | Coefficient of Volume Compressibility (m ² /kg) | Thickness (m) | Drawdown (m) | Specific Weight of Water (kg/m ³) | Settlement (mm) |
|---------|-----------|-------------|---|---|-----------------|--|---------------|--------------|---|-----------------|
| WT-3 | DB-2B | 20.40-20.50 | 489 | 1525 | 0.3 | 4.87E-07 | 5 | 2.300 | 1000 | 5.60 |
| WT-3 | DB-3 | 27.20-27.50 | 1464 | 3250 | 0.3 | 2.29E-07 | 5 | 2.300 | 1000 | 2.63 |
| WT-3 | DB-4A | 29.00-29.50 | 174 | 5700 | 0.3 | 1.30E-07 | 5 | 2.300 | 1000 | 1.50 |
| WT-3 | DB-4B | 29.00-29.50 | 8177 | 11450 | 0.3 | 6.49E-08 | 5 | 2.300 | 1000 | 0.75 |
| WT-3 | DB-5A | 33.00-33.45 | 472 | 850 | 0.3 | 8.74E-07 | 5 | 2.300 | 1000 | 10.05 |
| WT-3 | DB-5B | 33.00-33.45 | 396 | 867 | 0.3 | 8.57E-07 | 5 | 2.300 | 1000 | 9.85 |
| WT-3 | DB-6A | 36.10-36.60 | 1015 | 1577 | 0.3 | 4.71E-07 | 5 | 2.300 | 1000 | 5.42 |
| WT-3 | DB-6B | 36.10-36.60 | 1150 | 19400 | 0.3 | 3.83E-08 | 5 | 2.300 | 1000 | 0.44 |
| WT-4 | DB-1 | 9.40-9.60 | 579 | 1367 | 0.3 | 5.43E-07 | 5 | 2.300 | 1000 | 6.25 |
| WT-4 | DB-2A | 18.40-18.80 | 1463 | 2225 | 0.3 | 3.34E-07 | 5 | 2.300 | 1000 | 3.84 |
| WT-4 | DB-2B | 18.40-18.80 | 1314 | 2308 | 0.3 | 3.22E-07 | 5 | 2.300 | 1000 | 3.70 |
| WT-4 | DB-3 | 29.20-29.50 | 786 | 1427 | 0.3 | 5.21E-07 | 5 | 2.300 | 1000 | 5.99 |
| WT-4 | DB-4A | 32.50-32.95 | 8138 | 16250 | 0.3 | 4.57E-08 | 5 | 2.300 | 1000 | 0.53 |
| WT-4 | DB-4B | 32.50-32.95 | 4553 | 7619 | 0.3 | 9.75E-08 | 5 | 2.300 | 1000 | 1.12 |
| WT-4 | DB-5 | 36.75-37.00 | 7498 | 23095 | 0.3 | 3.22E-08 | 5 | 2.300 | 1000 | 0.37 |
| WT-4 | DB-6A | 54.60-55.00 | 2224 | 3926 | 0.3 | 1.89E-07 | 5 | 2.300 | 1000 | 2.18 |
| WT-4 | DB-6B | 54.60-55.00 | 1393 | 1675 | 0.3 | 4.43E-07 | 5 | 2.300 | 1000 | 5.10 |
| WT-4 | DB-7A | 57.10-57.45 | 1154 | 1541 | 0.3 | 4.82E-07 | 5 | 2.300 | 1000 | 5.54 |
| WT-4 | DB-7B | 57.10-57.45 | 1414 | 1414 | 0.3 | 5.25E-07 | 5 | 2.300 | 1000 | 6.04 |
| WT-5 | DB-1 | 14.00-14.50 | 447 | 618 | 0.3 | 1.20E-06 | 5 | 2.300 | 1000 | 13.82 |
| WT-5 | DB-3A | 46.70-47.00 | 1225 | 2286 | 0.3 | 3.25E-07 | 5 | 2.300 | 1000 | 3.74 |
| WT-5 | DB-3B | 46.70-47.00 | 1059 | 1259 | 0.3 | 5.90E-07 | 5 | 2.300 | 1000 | 6.79 |
| WT-5 | DB-4 | 53.60-53.90 | 156 | 1864 | 0.3 | 3.99E-07 | 5 | 2.300 | 1000 | 4.58 |
| WT-5 | DB-5A | 58.50-59.00 | 1819 | 1921 | 0.3 | 3.87E-07 | 5 | 2.300 | 1000 | 4.45 |

Soil Laboratory Test in 1998-1999(2/2)

| Hole No | Sample No | Depth (m) | E50 including plasticity creep area (ton/m2) | E50 in Elastic area (ton/m2) | Poisson's Ratio | Coefficient of Volume Compressibility (m2/kg) | Thickness (m) | Drawdown (m) | Specific Weight of Water (kg/m3) | Settlement (mm) |
|---------|-----------|-------------|--|------------------------------|-----------------|---|---------------|--------------|----------------------------------|-----------------|
| WT-7 | DB-2B | 19.00-19.60 | 428 | 1625 | 0.3 | 4.57E-07 | 5 | 2.300 | 1000 | 5.26 |
| WT-7 | DB-3 | 23.00-23.40 | 346 | 771 | 0.3 | 9.63E-07 | 5 | 2.300 | 1000 | 11.08 |
| WT-7 | DB-4A | 27.15-27.50 | 2411 | 7667 | 0.3 | 9.69E-08 | 5 | 2.300 | 1000 | 1.11 |
| WT-7 | DB-4B | 27.15-27.50 | 3411 | 7400 | 0.3 | 1.00E-07 | 5 | 2.300 | 1000 | 1.15 |
| WT-7 | DB-5A | 35.50-35.80 | 401 | 1663 | 0.3 | 4.47E-07 | 5 | 2.300 | 1000 | 5.14 |
| WT-7 | DB-5B | 35.50-35.80 | 475 | 1813 | 0.3 | 4.10E-07 | 5 | 2.300 | 1000 | 4.71 |
| WT-7 | DB-6A | 46.20-46.75 | 618 | 1115 | 0.3 | 6.66E-07 | 5 | 2.300 | 1000 | 7.66 |
| WT-7 | DB-6B | 46.20-46.75 | 718 | 1905 | 0.3 | 3.90E-07 | 5 | 2.300 | 1000 | 4.48 |
| WT-7 | DB-7 | 48.25-48.50 | 890 | 1500 | 0.3 | 4.95E-07 | 5 | 2.300 | 1000 | 5.70 |
| WT-8 | DB-1 | 9.40-9.80 | 362 | 383 | 0.3 | 1.94E-06 | 5 | 2.300 | 1000 | 22.31 |
| WT-8 | DB-3A | 45.50-45.90 | 918 | 923 | 0.3 | 8.05E-07 | 5 | 2.300 | 1000 | 9.26 |
| WT-8 | DB-3B | 45.50-45.90 | 927 | 927 | 0.3 | 8.01E-07 | 5 | 2.300 | 1000 | 9.22 |
| WT-8 | DB-4A | 53.05-53.35 | 1220 | 1771 | 0.3 | 4.19E-07 | 5 | 2.300 | 1000 | 4.82 |
| WT-8 | DB-4B | 53.05-53.35 | 992 | 1149 | 0.3 | 6.47E-07 | 5 | 2.300 | 1000 | 7.44 |
| WT-8 | DB-6 | 80.00-80.40 | 1060 | 1096 | 0.3 | 6.78E-07 | 5 | 2.300 | 1000 | 7.79 |
| WT-8 | DB-7 | 84.50-84.75 | 332 | 453 | 0.3 | 1.64E-06 | 5 | 2.300 | 1000 | 18.86 |



Location Map of Soil Sampling for Consolidation Test
D1-83

Consolidation Test Result(1/3)

Project: Rout67

Description: Bayon Well No.87
Sample No.: 1

| 荷重段階 P | 圧力 kg/cm ² | dP kg/cm ² | 圧密度 d cm | 試料高さ h cm | 平均試料 高さ h cm | 圧縮ヒズミ de % | 体積圧縮 係数m _v cm ² /kg | 体積圧縮 係数m _v m ² /kg | 層の厚さ m | 水位の低下 m | 水の密度 (kg/m ³) | 圧密沈下量 m | mm |
|--------|--------------------------|--------------------------|----------------|-----------------|--------------------|---------------|---|--|-----------|------------|------------------------------|------------|------|
| 0 | 0 | | | 19 | | | | | | | | | |
| 1 | 0.14 | 0.14 | 0.0170 | 18.983 | 18.992 | 0.0895 | 0.00639 | 6.394E-07 | 2 | 1.0 | 1000 | 0.00128 | 1.28 |
| 2 | 0.26 | 0.12 | 0.0410 | 18.942 | 18.963 | 0.2162 | 0.01802 | 1.802E-06 | 2 | 1.0 | 1000 | 0.00360 | 3.60 |
| 3 | 0.51 | 0.25 | 0.1100 | 18.832 | 18.887 | 0.5824 | 0.02330 | 2.330E-06 | 2 | 1.0 | 1000 | 0.00466 | 4.66 |
| 4 | 1.02 | 0.51 | 0.2880 | 18.544 | 18.688 | 1.5411 | 0.03022 | 3.022E-06 | 2 | 1.0 | 1000 | 0.00604 | 6.04 |
| 5 | 2.02 | 1.00 | 0.2960 | 18.248 | 18.396 | 1.6090 | 0.01609 | 1.609E-06 | 2 | 1.0 | 1000 | 0.00322 | 3.22 |
| 6 | 4.04 | 2.02 | 0.3140 | 17.934 | 18.091 | 1.7357 | 0.00859 | 8.592E-07 | 2 | 1.0 | 1000 | 0.00172 | 1.72 |
| 7 | 1.02 | -3.02 | -0.0240 | 17.946 | 17.946 | | | | | | | | |
| 8 | 0.26 | -0.76 | -0.0210 | 17.958 | 17.969 | | | | | | | | |
| | | | | 17.979 | | | | | | | | | |

Project: Rout67

Description: West Baray(3 km east of channel)
Sample No.: 2

| 荷重段階 P | 圧力 kg/cm ² | dP kg/cm ² | 圧密度 d cm | 試料高さ h cm | 平均試料 高さ h cm | 圧縮ヒズミ de % | 体積圧縮 係数m _v cm ² /kg | 体積圧縮 係数m _v m ² /kg | 層の厚さ m | 水位の低下 m | 水の密度 (kg/m ³) | 圧密沈下量 m | mm |
|--------|--------------------------|--------------------------|----------------|-----------------|--------------------|---------------|---|--|-----------|------------|------------------------------|------------|-------|
| 0 | 0 | | | 19 | | | | | | | | | |
| 1 | 0.14 | 0.14 | -0.057 | 19.057 | 19.029 | -0.2996 | -0.02140 | ? | 0.5 | 1.0 | 1000 | -0.00107 | -1.07 |
| 2 | 0.26 | 0.12 | 0.012 | 19.045 | 19.051 | 0.0630 | 0.00525 | 5.249E-07 | 0.5 | 1.0 | 1000 | 0.00026 | 0.26 |
| 3 | 0.51 | 0.25 | 0.016 | 19.029 | 19.037 | 0.0840 | 0.00336 | 3.362E-07 | 0.5 | 1.0 | 1000 | 0.00017 | 0.17 |
| 4 | 1.02 | 0.51 | 0.023 | 19.006 | 19.018 | 0.1209 | 0.00237 | 2.371E-07 | 0.5 | 1.0 | 1000 | 0.00012 | 0.12 |
| 5 | 2.02 | 1 | 0.03 | 18.976 | 18.991 | 0.1580 | 0.00158 | 1.580E-07 | 0.5 | 1.0 | 1000 | 0.00008 | 0.08 |
| 6 | 4.04 | 2.02 | 0.03 | 18.946 | 18.961 | 0.1582 | 0.00078 | 7.833E-08 | 0.5 | 1 | 1000 | 0.00004 | 0.04 |
| 7 | 1.02 | -3.02 | -0.009 | 18.946 | 18.951 | | | | | | | | |
| 8 | 0.26 | -0.76 | -0.015 | 18.955 | 18.963 | | | | | | | | |
| | | | | 18.97 | | | | | | | | | |

Consolidation Test Result(2/3)

Project: Rout67

Description: West of Angkor Wat(3km)
Sample No.: 3

| 荷重段階 P | 圧力 kg/cm ² | dP kg/cm ² | 圧密度 d cm | 試料高さ h cm | 平均試料 高さ h cm | 圧縮ヒズミ de % | 体積圧縮 係数m _v cm ² /kg | 体積圧縮 係数m _v m ² /kg | 層の厚さ m | 水位の低下 m | 水の密度 (kg/m ³) | 圧密沈下量 m | mm |
|--------|--------------------------|--------------------------|----------------|-----------------|--------------------|---------------|---|--|-----------|------------|------------------------------|------------|-------|
| 0 | 0 | | | 19 | 19.042 | -0.4359 | -0.03114 | ? | 0.5 | 1.0 | 1000 | -0.00156 | -1.56 |
| 1 | 0.14 | 0.14 | -0.083 | 19.083 | 19.055 | 0.2939 | 0.02449 | 2.449E-06 | 0.5 | 1.0 | 1000 | 0.00122 | 1.22 |
| 2 | 0.26 | 0.12 | 0.056 | 19.027 | 19.000 | 0.2842 | 0.01137 | 1.137E-06 | 0.5 | 1.0 | 1000 | 0.00057 | 0.57 |
| 3 | 0.51 | 0.25 | 0.054 | 18.973 | 18.925 | 0.5073 | 0.00995 | 9.946E-07 | 0.5 | 1.0 | 1000 | 0.00050 | 0.50 |
| 4 | 1.02 | 0.51 | 0.096 | 18.877 | 18.790 | 0.9260 | 0.00926 | 9.260E-07 | 0.5 | 1.0 | 1000 | 0.00046 | 0.46 |
| 5 | 2.02 | 1.00 | 0.174 | 18.703 | 18.492 | 2.2821 | 0.01130 | 1.130E-06 | 0.5 | 1 | 1000 | 0.00056 | 0.56 |
| 6 | 4.04 | 2.02 | 0.422 | 18.281 | 18.276 | | | | | | | | |
| 7 | 1.02 | -3.02 | 0.01 | 18.271 | 18.970 | | | | | | | | |
| 8 | 0.26 | -0.76 | -0.029 | 18.3 | | | | | | | | | |

Project: Rout67

Description: Banteay Kudey
Sample No.: 4

| 荷重段階 P | 圧力 kg/cm ² | dP kg/cm ² | 圧密度 d cm | 試料高さ h cm | 平均試料 高さ h cm | 圧縮ヒズミ de % | 体積圧縮 係数m _v cm ² /kg | 体積圧縮 係数m _v m ² /kg | 層の厚さ m | 水位の低下 m | 水の密度 (kg/m ³) | 圧密沈下量 m | mm |
|--------|--------------------------|--------------------------|----------------|-----------------|--------------------|---------------|---|--|-----------|------------|------------------------------|------------|-------|
| 0 | 0 | | | 19.000 | 19.025 | -0.2628 | -0.01877 | ? | 1 | 1.0 | 1000 | -0.00188 | -1.88 |
| 1 | 0.14 | 0.14 | -0.05 | 19.050 | 19.025 | 0.2681 | 0.02234 | 2.234E-06 | 1 | 1.0 | 1000 | 0.00223 | 2.23 |
| 2 | 0.26 | 0.12 | 0.051 | 18.999 | 18.980 | 0.2055 | 0.00822 | 8.219E-07 | 1 | 1.0 | 1000 | 0.00082 | 0.82 |
| 3 | 0.51 | 0.25 | 0.039 | 18.960 | 18.925 | 0.3752 | 0.00736 | 7.356E-07 | 1 | 1.0 | 1000 | 0.00074 | 0.74 |
| 4 | 1.02 | 0.51 | 0.071 | 18.889 | 18.835 | 0.5787 | 0.00579 | 5.787E-07 | 1 | 1.0 | 1000 | 0.00058 | 0.58 |
| 5 | 2.02 | 1.00 | 0.109 | 18.780 | 18.666 | 1.2215 | 0.00605 | 6.047E-07 | 1 | 1.0 | 1000 | 0.00060 | 0.60 |
| 6 | 4.04 | 2.02 | 0.228 | 18.552 | 18.711 | | | | | | | | |
| 7 | 1.02 | -3.02 | -0.318 | 18.870 | 18.779 | | | | | | | | |
| 8 | 0.26 | -0.76 | 0.182 | 18.688 | | | | | | | | | |

Consolidation Test Result(3/3)

Project: Rout67

Description: Angkor Wat South
Sample No.: 5

| 荷重段階 P | 圧力 kg/cm ² | dP kg/cm ² | 圧密度 d cm | 試料高さ h cm | 平均試料 高さ h cm | 圧縮ヒズミ de % | 体積圧縮 係数m _v cm ² /kg | 体積圧縮 係数m _v m ² /kg | 層の厚さ m | 水位の低下 m | 水の密度 (kg/m ³) | 圧密沈下量 m | mm |
|--------|--------------------------|--------------------------|----------------|-----------------|--------------------|---------------|---|--|-----------|------------|------------------------------|------------|-------|
| 0 | 0 | | | 19.000 | | | | | | | | | |
| 1 | 0.14 | 0.14 | -0.065 | 19.065 | 19.033 | -0.3415 | -0.02439 | ? | 1 | 1.0 | 1000 | -0.00244 | -2.44 |
| 2 | 0.26 | 0.12 | 0.065 | 19.000 | 19.033 | 0.3415 | 0.02846 | 2.846E-06 | 1 | 1.0 | 1000 | 0.00285 | 2.85 |
| 3 | 0.51 | 0.25 | 0.08 | 18.920 | 18.960 | 0.4219 | 0.01688 | 1.688E-06 | 1 | 1.0 | 1000 | 0.00169 | 1.69 |
| 4 | 1.02 | 0.51 | 0.109 | 18.811 | 18.866 | 0.5778 | 0.01133 | 1.133E-06 | 1 | 1.0 | 1000 | 0.00113 | 1.13 |
| 5 | 2.02 | 1.00 | 0.129 | 18.682 | 18.747 | 0.6881 | 0.00688 | 6.881E-07 | 1 | 1.0 | 1000 | 0.00069 | 0.69 |
| 6 | 4.04 | 2.02 | 0.175 | 18.507 | 18.595 | 0.9411 | 0.00466 | 4.659E-07 | 1 | 1 | 1000 | 0.00047 | 0.47 |
| 7 | 1.02 | -3.02 | -0.017 | 18.524 | 18.516 | | | | | | | | |
| 8 | 0.26 | -0.76 | -0.04 | 18.544 | 18.544 | | | | | | | | |

Project: Rout67

Description: WT4
Sample No.: 6

| 荷重段階 P | 圧力 kg/cm ² | dP kg/cm ² | 圧密度 d cm | 試料高さ h cm | 平均試料 高さ h cm | 圧縮ヒズミ de % | 体積圧縮 係数m _v cm ² /kg | 体積圧縮 係数m _v m ² /kg | 層の厚さ m | 水位の低下 m | 水の密度 (kg/m ³) | 圧密沈下量 m | mm |
|--------|--------------------------|--------------------------|----------------|-----------------|--------------------|---------------|---|--|-----------|------------|------------------------------|------------|-------|
| 0 | 0 | | | 19.000 | | | | | | | | | |
| 1 | 0.14 | 0.14 | -0.026 | 19.026 | 19.013 | -0.1367 | -0.00977 | ? | 0.5 | 1.0 | 1000 | -0.00049 | -0.49 |
| 2 | 0.26 | 0.12 | 0.021 | 19.005 | 19.016 | 0.1104 | 0.00920 | 9.203E-07 | 0.5 | 1.0 | 1000 | 0.00046 | 0.46 |
| 3 | 0.51 | 0.25 | 0.04 | 18.965 | 18.985 | 0.2107 | 0.00843 | 8.428E-07 | 0.5 | 1.0 | 1000 | 0.00042 | 0.42 |
| 4 | 1.02 | 0.51 | 0.045 | 18.920 | 18.943 | 0.2376 | 0.00466 | 4.658E-07 | 0.5 | 1.0 | 1000 | 0.00023 | 0.23 |
| 5 | 2.02 | 1.00 | 0.044 | 18.876 | 18.898 | 0.2328 | 0.00233 | 2.328E-07 | 0.5 | 1.0 | 1000 | 0.00012 | 0.12 |
| 6 | 4.04 | 2.02 | 0.047 | 18.829 | 18.853 | 0.2493 | 0.00123 | 1.234E-07 | 0.5 | 1 | 1000 | 0.00006 | 0.06 |
| 7 | 1.02 | -3.02 | 0 | 18.829 | 18.829 | | | | | | | | |
| 8 | 0.26 | -0.76 | -0.02 | 18.849 | 18.839 | | | | | | | | |



MAA GEOTECHNICS CO., LTD.

CONSOLIDATION TEST

Project: Route 67
 Location: Cambodia
 Tested by: MAA

Description: Bayon Well No. 87
 Sample No: 1
 Depth (m.): -

| Vertical Stress (ton/m ²) | Vertical Disp. | | Height of Sample | | | Soil Description: | Silty SAND | |
|--|---------------------------|-------------------------|--------------------------|---------------------------|-------------------------|--|------------|--------------------|
| | d ₁₀₀ (mm.) | d _r (mm.) | H ₅₀ (mm.) | H ₁₀₀ (mm.) | H _r (mm.) | Water Content, w _n | 7.7 | % |
| 1.4 | 0.103 | 0.117 | 19.049 | 18.997 | 18.983 | Initial Void Ratio, e ₀ | 0.508 | |
| 2.6 | 0.035 | 0.041 | 18.966 | 18.948 | 18.942 | Total Unit Weight, γ _t | 1.76 | ton/m ³ |
| 5.1 | 0.084 | 0.110 | 18.900 | 18.858 | 18.832 | Specific Gravity, G _s | 2.58 | Assumed |
| 10.2 | 0.220 | 0.288 | 18.722 | 18.612 | 18.544 | Liquid Limit, LL | - | % |
| 20.2 | 0.270 | 0.296 | 18.409 | 18.274 | 18.248 | Plasticity Index, PI | - | % |
| 40.4 | 0.290 | 0.314 | 18.103 | 17.958 | 17.934 | Sample Height, H | 1.9 | cm. |
| 10.2 | -0.020 | -0.024 | 17.944 | 17.954 | 17.958 | Sample Area, A | 19.87 | cm ² |
| 2.6 | -0.020 | -0.021 | 17.968 | 17.978 | 17.979 | Height of Solid, H _s | 1.326 | cm. |
| | | | | | | Preconsolidation Pressure, σ _{c'} | 5.8 | ton/m ² |

| Vertical Stress (ton/m ²) | Vertical Strain | | Void ratio | | Time | | Coefficient of Consolidation | | | Permea. k x 10 ⁻⁸ (cm/sec) | Compres. Ratio CR |
|--|-------------------------|-----------------------|------------------|----------------|---------------------------|---------------------------|--|--------|---------|---|-------------------------|
| | ε ₁₀₀ (%) | ε _r (%) | e ₁₀₀ | e _r | t ₉₀ (min.) | t ₅₀ (min.) | c _v x 10 ⁻³ (cm ² /sec) | | | | |
| | | | | | | | sqrt(t) | log(t) | Average | | |
| 1.4 | 0.5 | 0.6 | 0.500 | 0.499 | | | | | | | |
| 2.6 | 0.8 | 0.8 | 0.496 | 0.495 | 13.0 | 4.0 | 1.0 | 0.7 | 0.9 | 1.8 | 0.009 |
| 5.1 | 1.3 | 1.4 | 0.489 | 0.487 | 2.6 | 0.9 | 4.9 | 3.3 | 4.1 | 7.7 | 0.016 |
| 10.2 | 2.6 | 2.9 | 0.469 | 0.464 | 2.0 | 0.5 | 6.3 | 5.8 | 6.0 | 15.4 | 0.043 |
| 20.2 | 4.3 | 4.5 | 0.443 | 0.441 | 3.2 | 1.0 | 3.7 | 2.8 | 3.2 | 5.7 | 0.059 |
| 40.4 | 6.0 | 6.1 | 0.418 | 0.416 | 2.3 | 0.6 | 5.1 | 4.5 | 4.8 | 4.0 | 0.055 |
| 10.2 | 6.0 | 6.0 | 0.417 | 0.418 | | | | | | | 0.002 |
| 2.6 | 5.9 | 5.9 | 0.419 | 0.419 | | | | | | | 0.002 |

Note: Compression Ratio = $\frac{\Delta \epsilon}{\log(\sigma_2/\sigma_1)}$

Project: Route 67

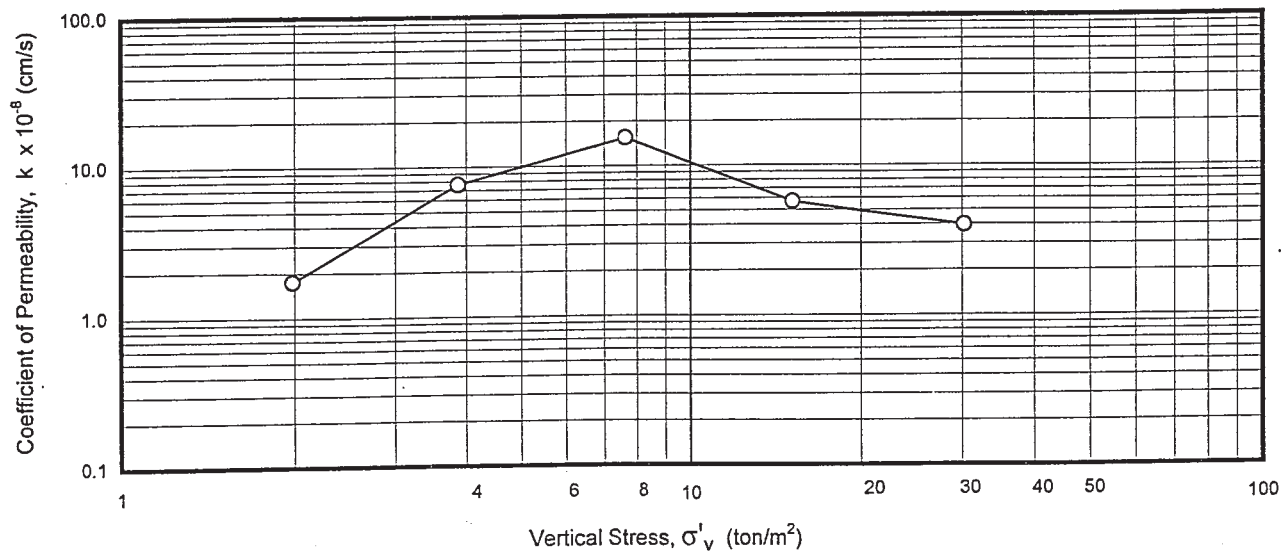
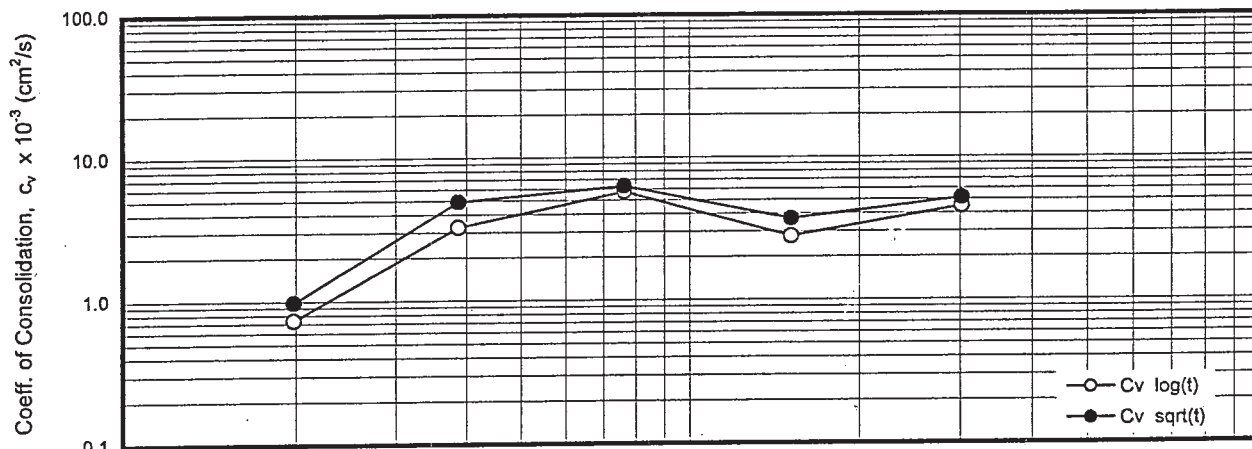
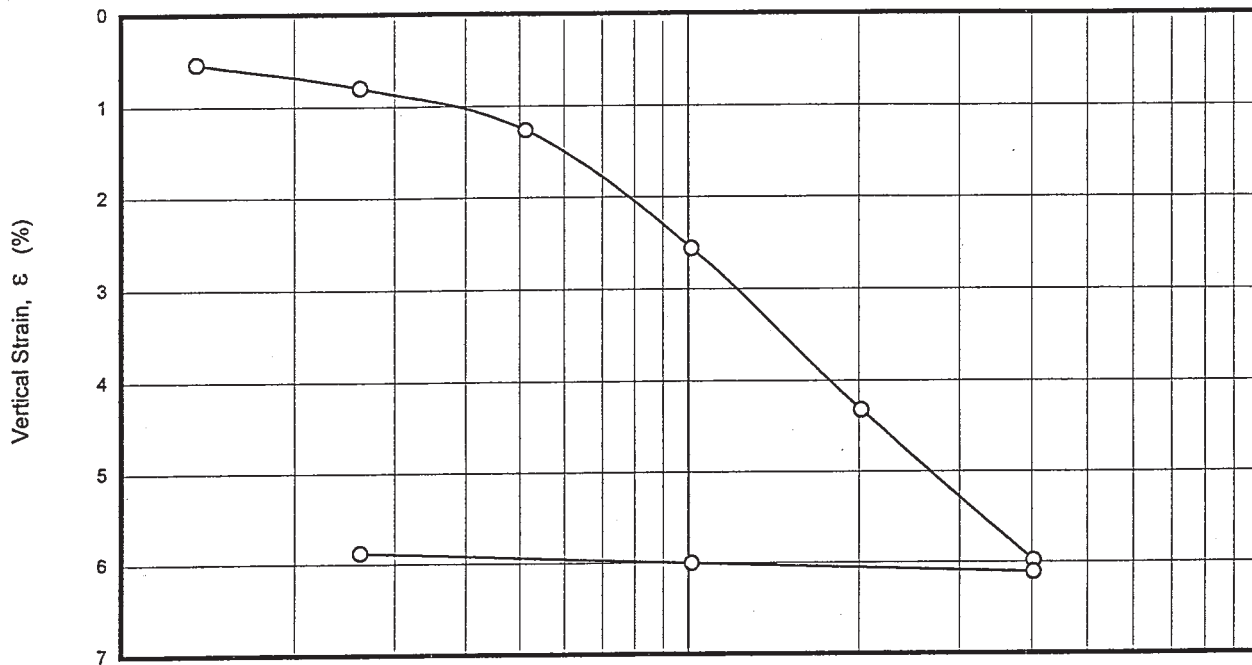
Tested by: MAA

Description: Bayon Well No. 87

Location: Cambodia

Depth (m.): -

Sample No: 1





MAA GEOTECHNICS CO., LTD.

CONSOLIDATION TEST

Project: Route 67
 Location: Cambodia
 Tested by: MAA

Description: West Baray (3km Esat of Channel)
 Sample No: 2
 Depth (m.): -

| Vertical Stress (ton/m ²) | Vertical Disp. | | Height of Sample | | | Soil Description: | Silty CLAY | |
|--|---------------------------|-------------------------|--------------------------|---------------------------|-------------------------|--|------------|--------------------|
| | d ₁₀₀ (mm.) | d _r (mm.) | H ₅₀ (mm.) | H ₁₀₀ (mm.) | H _r (mm.) | Water Content, w _n | 11.9 | % |
| | | | | | | Initial Void Ratio, e ₀ | 0.338 | |
| 1.4 | 0.036 | 0.043 | 19.082 | 19.064 | 19.057 | Total Unit Weight, γ _t | 2.06 | ton/m ³ |
| 2.6 | 0.006 | 0.012 | 19.054 | 19.051 | 19.045 | Specific Gravity, G _s | 2.58 | Assumed |
| 5.1 | 0.008 | 0.016 | 19.041 | 19.037 | 19.029 | Liquid Limit, LL | - | % |
| 10.2 | 0.017 | 0.023 | 19.021 | 19.012 | 19.006 | Plasticity Index, PI | - | % |
| 20.2 | 0.020 | 0.030 | 18.996 | 18.987 | 18.976 | Sample Height, H | 1.9 | cm. |
| 40.4 | 0.022 | 0.030 | 18.965 | 18.954 | 18.946 | Sample Area, A | 19.87 | cm ² |
| 10.2 | -0.007 | -0.009 | 18.950 | 18.954 | 18.955 | Height of Solid, H _s | 1.495 | cm. |
| 2.6 | -0.013 | -0.015 | 18.962 | 18.968 | 18.970 | Preconsolidation Pressure, σ _{c'} | - | ton/m ² |

| Vertical Stress (ton/m ²) | Vertical Strain | | Void ratio | | Time | | Coefficient of Consolidation | | | Permea. k x 10 ⁻⁸ (cm/sec) | Compres. Ratio CR |
|--|-------------------------|-----------------------|------------------|----------------|---------------------------|---------------------------|--|--------|---------|---|-------------------------|
| | ε ₁₀₀ (%) | ε _r (%) | e ₁₀₀ | e _r | t ₉₀ (min.) | t ₅₀ (min.) | c _v x 10 ⁻³ (cm ² /sec) | | | | |
| | | | | | | | sqrt(t) | log(t) | Average | | |
| 1.4 | 0.2 | 0.2 | 0.336 | 0.335 | | | | | | | |
| 2.6 | 0.3 | 0.3 | 0.335 | 0.334 | 6.8 | 1.9 | 1.9 | 1.6 | 1.7 | 0.9 | 0.002 |
| 5.1 | 0.3 | 0.4 | 0.334 | 0.333 | 1.0 | 0.3 | 12.8 | 10.6 | 11.7 | 3.3 | 0.002 |
| 10.2 | 0.5 | 0.5 | 0.332 | 0.332 | 3.2 | 1.0 | 3.9 | 3.0 | 3.5 | 0.9 | 0.004 |
| 20.2 | 0.6 | 0.6 | 0.330 | 0.329 | 4.0 | 1.3 | 3.2 | 2.3 | 2.7 | 0.4 | 0.004 |
| 40.4 | 0.8 | 0.8 | 0.328 | 0.327 | 6.8 | 2.0 | 1.9 | 1.5 | 1.7 | 0.1 | 0.006 |
| 10.2 | 0.8 | 0.8 | 0.328 | 0.328 | | | | | | | 0.001 |
| 2.6 | 0.7 | 0.7 | 0.329 | 0.329 | | | | | | | 0.001 |

Note: Compression Ratio = $\frac{\Delta \epsilon}{\log(\sigma_2/\sigma_1)}$

Project: Route 67

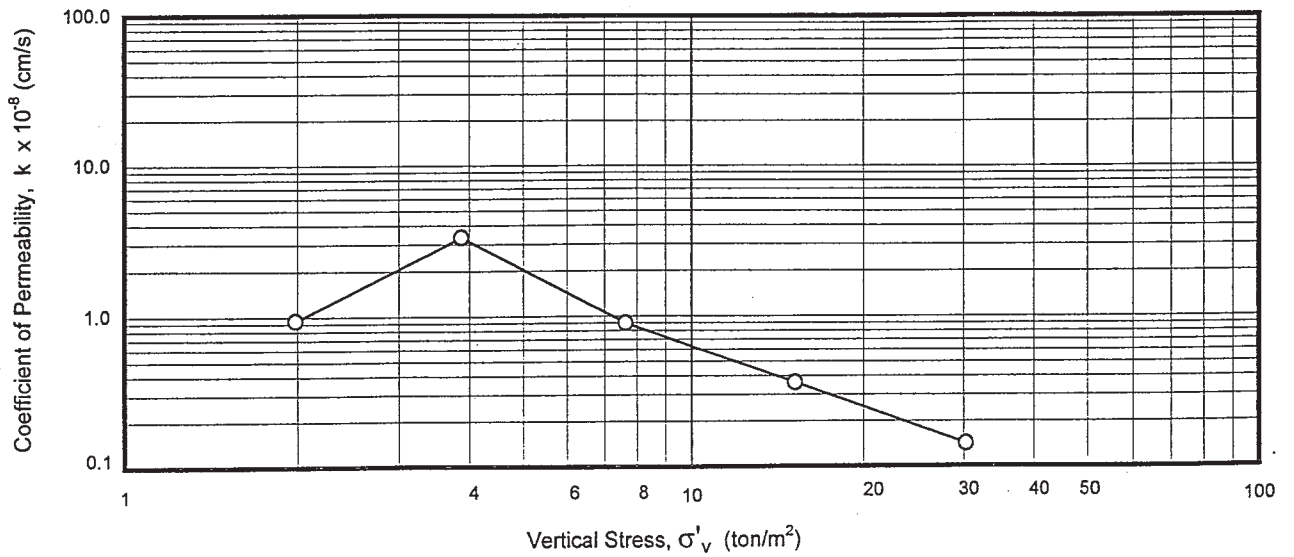
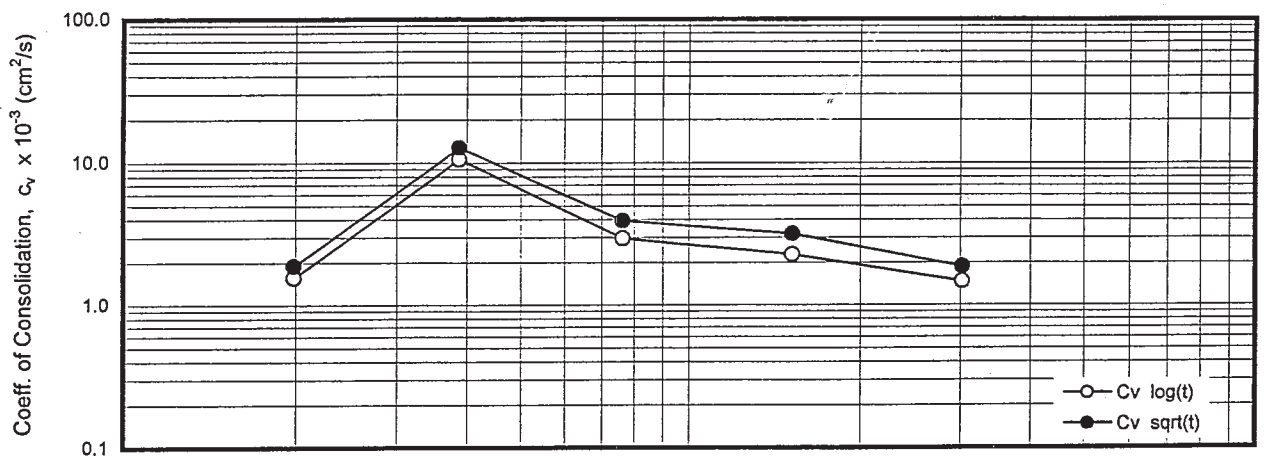
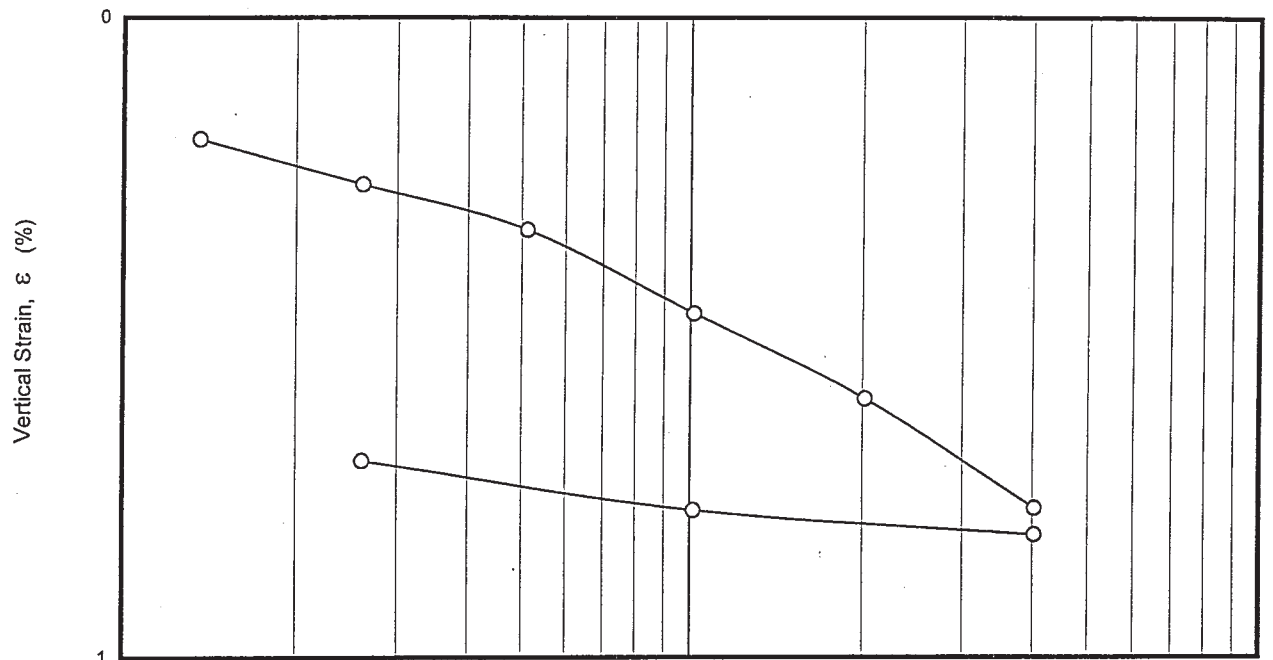
Tested by: MAA

Description: West Baray (3km Esat of Channel)

Location: Cambodia

Depth (m.): -

Sample No: 2





MAA GEOTECHNICS CO., LTD.

CONSOLIDATION TEST

Project: Route 67

Description: West of Angkor Wat (3 km)

Location: Cambodia

Sample No: 3

Tested by: MAA

Depth (m.): -

| Vertical Stress (ton/m ²) | Vertical Disp. | | Height of Sample | | | Soil Description: | Silty CLAY with sand | |
|--|---------------------------|-------------------------|--------------------------|---------------------------|-------------------------|---|----------------------|--------------------|
| | d ₁₀₀ (mm.) | d _r (mm.) | H ₅₀ (mm.) | H ₁₀₀ (mm.) | H _r (mm.) | Water Content, w _n | 9.4 | % |
| 1.4 | 0.017 | 0.037 | 19.092 | 19.083 | 19.063 | Initial Void Ratio, e ₀ | 0.434 | |
| 2.6 | 0.036 | 0.048 | 19.045 | 19.027 | 19.015 | Total Unit Weight, γ _t | 1.89 | ton/m ³ |
| 5.1 | 0.042 | 0.070 | 18.994 | 18.973 | 18.945 | Specific Gravity, G _s | 2.59 | Assumed |
| 10.2 | 0.068 | 0.117 | 18.911 | 18.877 | 18.828 | Liquid Limit, LL | - | % |
| 20.2 | 0.125 | 0.143 | 18.766 | 18.703 | 18.685 | Plasticity Index, PI | - | % |
| 40.4 | 0.424 | 0.428 | 18.473 | 18.261 | 18.257 | Sample Height, H | 1.9 | cm. |
| 10.2 | -0.014 | -0.021 | 18.264 | 18.271 | 18.278 | Sample Area, A | 19.87 | cm ² |
| 2.6 | -0.020 | -0.022 | 18.288 | 18.298 | 18.300 | Height of Solid, H _s | 1.394 | cm. |
| | | | | | | Preconsolidation Pressure, σ _c | 15.0 | ton/m ² |

| Vertical Stress (ton/m ²) | Vertical Strain | | Void ratio | | Time | | Coefficient of Consolidation | | | Permea. k x 10 ⁻⁸ (cm/sec) | Compres. Ratio CR |
|--|-------------------------|-----------------------|------------------|----------------|---------------------------|---------------------------|--|--------|---------|---|-------------------------|
| | ε ₁₀₀ (%) | ε _r (%) | e ₁₀₀ | e _r | t ₉₀ (min.) | t ₅₀ (min.) | c _v x 10 ⁻³ (cm ² /sec) | | | | |
| | | | | | | | sqrt(t) | log(t) | Average | | |
| 1.4 | 0.1 | 0.2 | 0.433 | 0.432 | | | | | | | |
| 2.6 | 0.4 | 0.4 | 0.429 | 0.428 | 7.8 | 2.1 | 1.6 | 1.4 | 1.5 | 3.6 | 0.010 |
| 5.1 | 0.7 | 0.8 | 0.425 | 0.423 | 2.6 | 0.8 | 5.0 | 3.7 | 4.3 | 4.9 | 0.010 |
| 10.2 | 1.2 | 1.4 | 0.418 | 0.414 | 3.2 | 1.0 | 3.9 | 2.9 | 3.4 | 3.4 | 0.017 |
| 20.2 | 2.1 | 2.2 | 0.405 | 0.403 | 7.8 | 2.4 | 1.6 | 1.2 | 1.4 | 1.3 | 0.030 |
| 40.4 | 4.4 | 4.4 | 0.371 | 0.371 | 3.2 | 1.0 | 3.7 | 2.8 | 3.3 | 3.7 | 0.077 |
| 10.2 | 4.3 | 4.3 | 0.372 | 0.373 | | | | | | | 0.001 |
| 2.6 | 4.2 | 4.2 | 0.374 | 0.374 | | | | | | | 0.002 |

Note: Compression Ratio = $\frac{\Delta \epsilon}{\log(\sigma_2/\sigma_1)}$

Project: Route 67

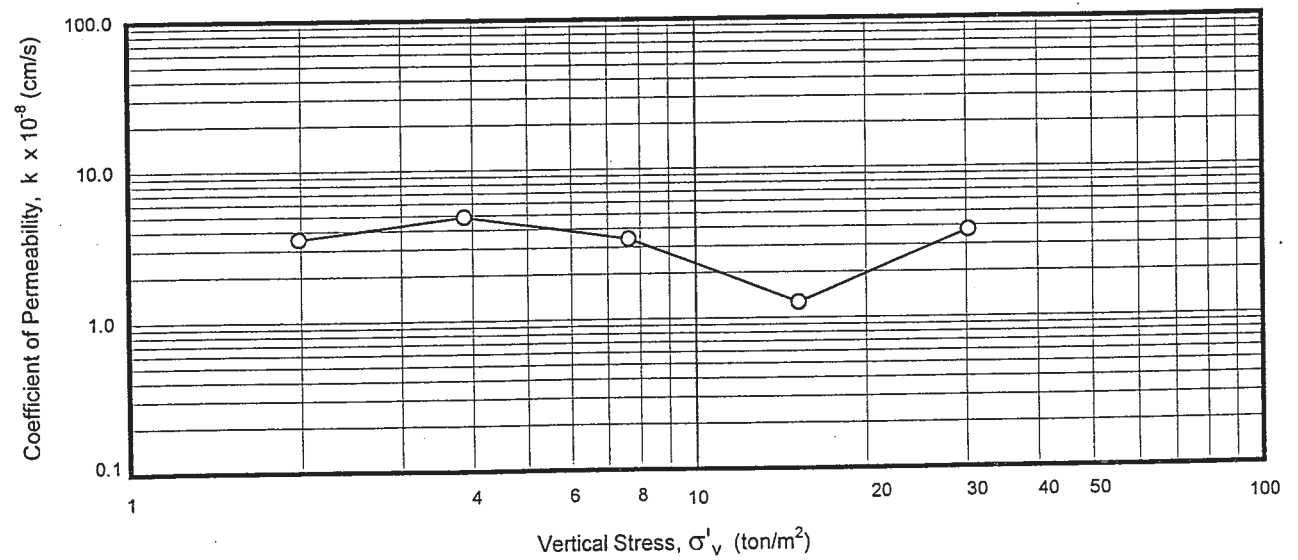
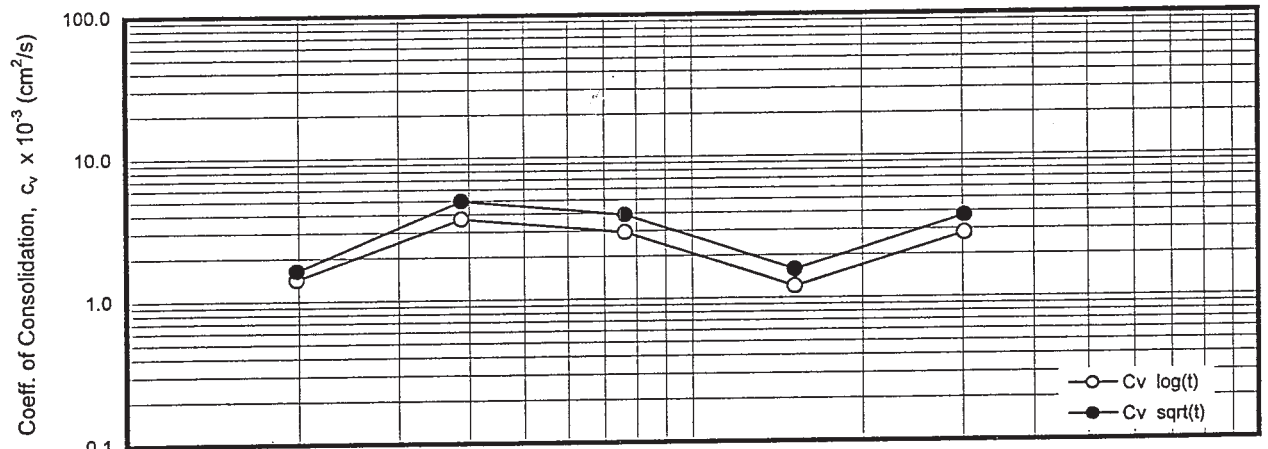
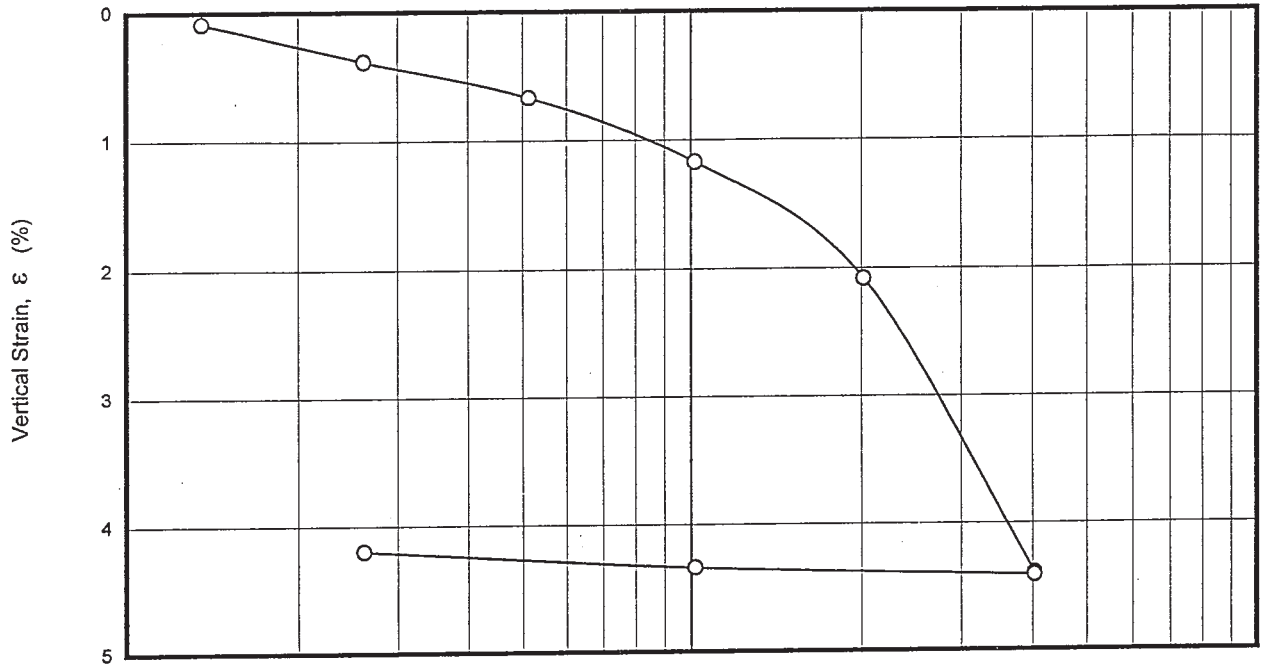
Tested by: MAA

Description: West of Angkor Wat (3 km)

Location: Cambodia

Depth (m.): -

Sample No: 3





MAA GEOTECHNICS CO., LTD.

CONSOLIDATION TEST

Project: Route 67
 Location: Cambodia
 Tested by: MAA

Description: Ban Teai Kudo
 Sample No: 4
 Depth (m.): -

| Vertical Stress (ton/m ²) | Vertical Disp. | | Height of Sample | | | Soil Description: | Silty SAND | |
|---------------------------------------|------------------------|----------------------|-----------------------|------------------------|----------------------|--|------------|--------------------|
| | d ₁₀₀ (mm.) | d _r (mm.) | H ₅₀ (mm.) | H ₁₀₀ (mm.) | H _r (mm.) | Water Content, w _n | 14.4 | % |
| 1.4 | 0.046 | 0.050 | 19.077 | 19.054 | 19.050 | Initial Void Ratio, e ₀ | 0.392 | |
| 2.6 | 0.040 | 0.051 | 19.030 | 19.010 | 18.999 | Total Unit Weight, γ _t | 2.06 | ton/m ³ |
| 5.1 | 0.032 | 0.039 | 18.983 | 18.967 | 18.960 | Specific Gravity, G _s | 2.63 | Assumed |
| 10.2 | 0.060 | 0.071 | 18.930 | 18.900 | 18.889 | Liquid Limit, LL | - | % |
| 20.2 | 0.095 | 0.109 | 18.842 | 18.794 | 18.780 | Plasticity Index, PI | - | % |
| 40.4 | 0.105 | 0.118 | 18.728 | 18.675 | 18.662 | Sample Height, H | 1.9 | cm. |
| 10.2 | -0.007 | -0.008 | 18.665 | 18.669 | 18.670 | Sample Area, A | 19.87 | cm ² |
| 2.6 | -0.013 | -0.018 | 18.677 | 18.683 | 18.688 | Height of Solid, H _s | 1.437 | cm. |
| | | | | | | Preconsolidation Pressure, σ _{c'} | 7.1 | ton/m ² |

| Vertical Stress (ton/m ²) | Vertical Strain | | Void ratio | | Time | | Coefficient of Consolidation | | | Permea. k × 10 ⁻⁸ (cm/sec) | Compres. Ratio CR |
|---------------------------------------|----------------------|--------------------|------------------|----------------|------------------------|------------------------|--|--------|---------|---------------------------------------|-------------------|
| | ε ₁₀₀ (%) | ε _r (%) | e ₁₀₀ | e _r | t ₆₀ (min.) | t ₅₀ (min.) | c _v × 10 ⁻³ (cm ² /sec) | | | | |
| | | | | | | | sqrt(t) | log(t) | Average | | |
| 1.4 | 0.2 | 0.3 | 0.389 | 0.389 | | | | | | | |
| 2.6 | 0.5 | 0.5 | 0.386 | 0.385 | 2.6 | 0.7 | 5.0 | 4.2 | 4.6 | 8.5 | 0.008 |
| 5.1 | 0.7 | 0.7 | 0.382 | 0.382 | 3.2 | 1.0 | 3.9 | 3.0 | 3.4 | 3.1 | 0.008 |
| 10.2 | 1.0 | 1.1 | 0.378 | 0.377 | 3.2 | 0.9 | 3.9 | 3.3 | 3.6 | 2.5 | 0.012 |
| 20.2 | 1.6 | 1.7 | 0.370 | 0.369 | 2.0 | 0.6 | 6.4 | 4.9 | 5.6 | 3.1 | 0.019 |
| 40.4 | 2.2 | 2.3 | 0.361 | 0.360 | 2.3 | 0.6 | 5.5 | 4.8 | 5.2 | 1.6 | 0.021 |
| 10.2 | 2.3 | 2.2 | 0.361 | 0.361 | | | | | | | 0.001 |
| 2.6 | 2.2 | 2.2 | 0.362 | 0.362 | | | | | | | 0.001 |

Note: Compression Ratio = $\frac{\Delta \epsilon}{\log(\sigma_2/\sigma_1)}$

Project: Route 67

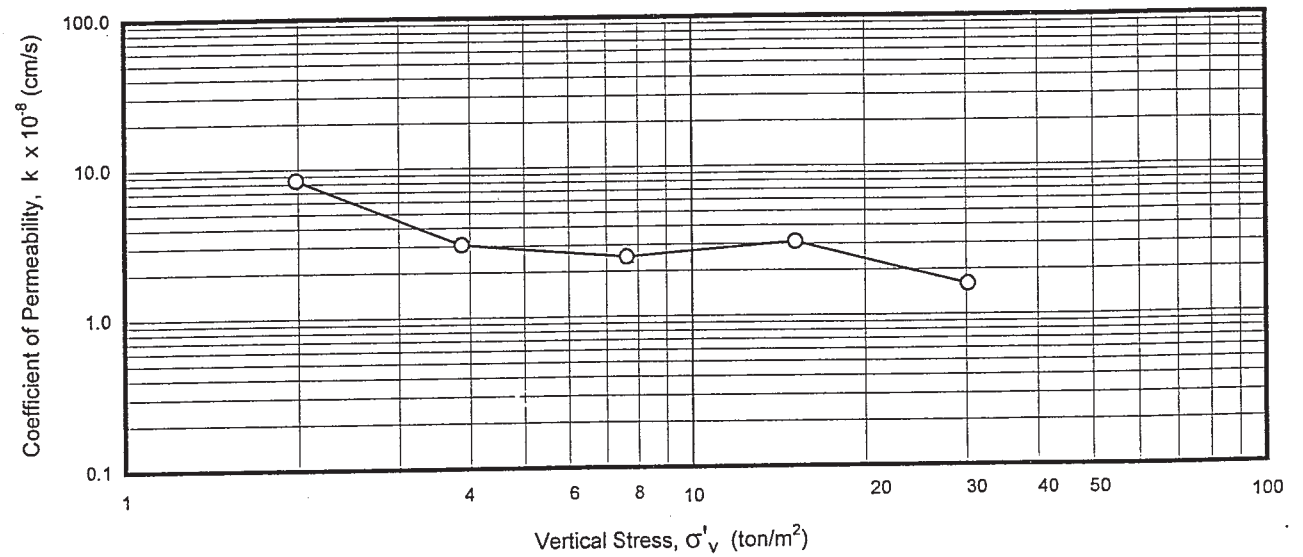
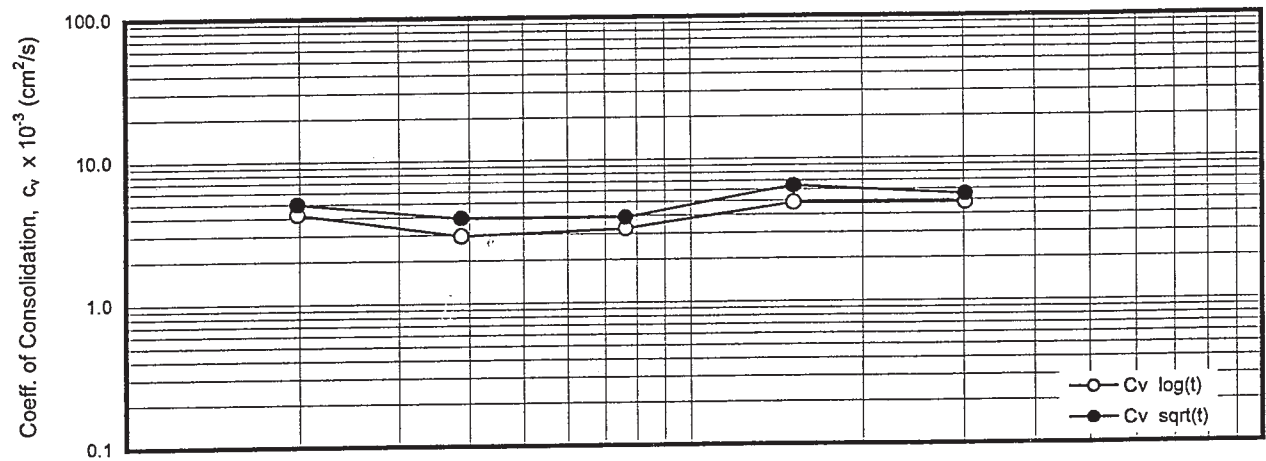
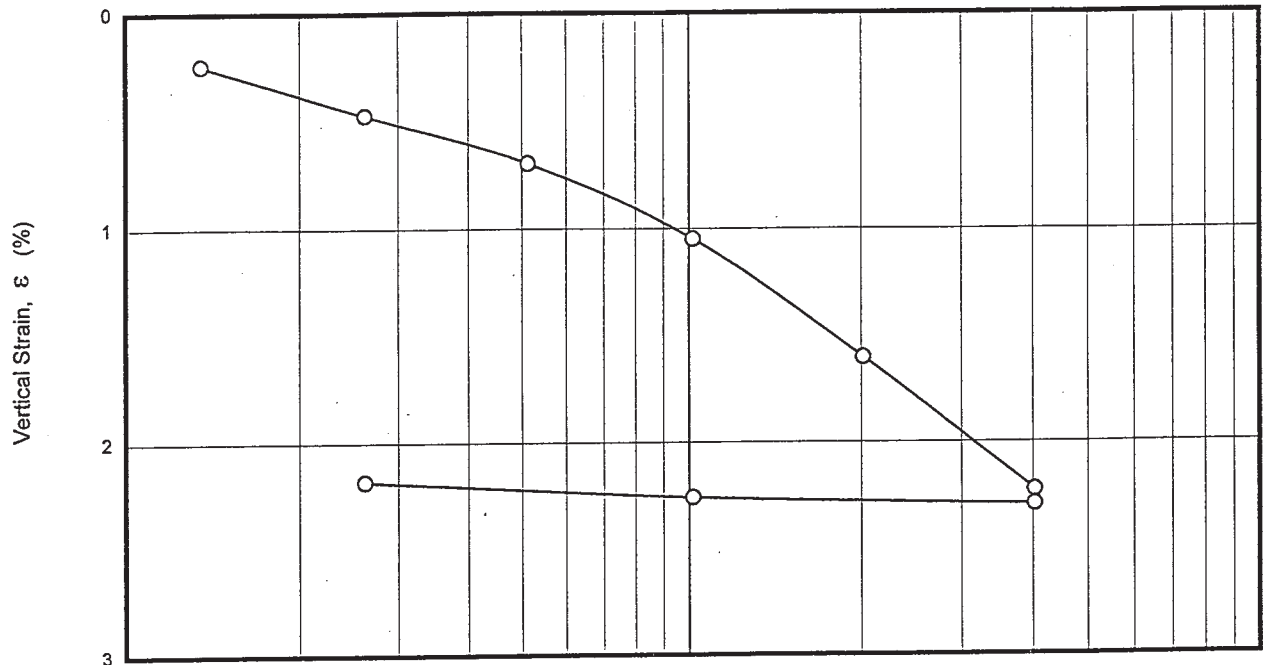
Tested by: MAA

Description: Ban Teai Kudoj

Location: Cambodia

Depth (m.): -

Sample No: 4





MAA GEOTECHNICS CO., LTD.

CONSOLIDATION TEST

Project: Route 67
 Location: Cambodia
 Tested by: MAA

Description: Angkor Wat South
 Sample No: 5
 Depth (m.): -

| Vertical Stress (ton/m ²) | Vertical Disp. | | Height of Sample | | | Soil Description: | Silty CLAY with sand | |
|--|---------------------------|-------------------------|--------------------------|---------------------------|-------------------------|--|----------------------|--------------------|
| | d ₁₀₀ (mm.) | d _f (mm.) | H ₅₀ (mm.) | H ₁₀₀ (mm.) | H _f (mm.) | Water Content, w _n | 16.9 | % |
| 1.4 | 0.026 | 0.035 | 19.087 | 19.074 | 19.065 | Initial Void Ratio, e ₀ | 0.466 | |
| 2.6 | 0.058 | 0.065 | 19.036 | 19.007 | 19.000 | Total Unit Weight, γ _t | 1.96 | ton/m ³ |
| 5.1 | 0.058 | 0.080 | 18.971 | 18.942 | 18.920 | Specific Gravity, G _s | 2.57 | Assumed |
| 10.2 | 0.078 | 0.109 | 18.881 | 18.842 | 18.811 | Liquid Limit, LL | 26.6 | % |
| 20.2 | 0.110 | 0.129 | 18.756 | 18.701 | 18.682 | Plasticity Index, PI | 10.9 | % |
| 40.4 | 0.145 | 0.175 | 18.610 | 18.537 | 18.507 | Sample Height, H | 1.9 | cm. |
| 10.2 | -0.012 | -0.017 | 18.513 | 18.519 | 18.524 | Sample Area, A | 19.87 | cm ² |
| 2.6 | -0.040 | -0.043 | 18.544 | 18.564 | 18.567 | Height of Solid, H _s | 1.364 | cm. |
| | | | | | | Preconsolidation Pressure, σ _{v'} | 6.8 | ton/m ² |

| Vertical Stress (ton/m ²) | Vertical Strain | | Void ratio | | Time | | Coefficient of Consolidation | | | Permea. k x 10 ⁻⁸ (cm/sec) | Compres. Ratio CR |
|--|-------------------------|-----------------------|------------------|----------------|---------------------------|---------------------------|--|--------|---------|---|-------------------------|
| | ε ₁₀₀ (%) | ε _f (%) | e ₁₀₀ | e _f | t ₉₀ (min.) | t ₅₀ (min.) | c _v x 10 ⁻³ (cm ² /sec) | | | | |
| | | | | | | | sqrt(t) | log(t) | Average | | |
| 1.4 | 0.1 | 0.2 | 0.464 | 0.463 | | | | | | | |
| 2.6 | 0.5 | 0.5 | 0.459 | 0.458 | 1.0 | 0.3 | 12.8 | 9.9 | 11.4 | 31.7 | 0.012 |
| 5.1 | 0.8 | 0.9 | 0.454 | 0.452 | 5.8 | 2.0 | 2.2 | 1.5 | 1.8 | 2.5 | 0.012 |
| 10.2 | 1.4 | 1.5 | 0.446 | 0.444 | 4.0 | 0.8 | 3.1 | 3.7 | 3.4 | 3.5 | 0.018 |
| 20.2 | 2.1 | 2.2 | 0.436 | 0.434 | 4.0 | 0.9 | 3.1 | 3.2 | 3.2 | 2.3 | 0.025 |
| 40.4 | 2.9 | 3.1 | 0.423 | 0.421 | 1.4 | 0.5 | 8.5 | 6.3 | 7.4 | 3.2 | 0.029 |
| 10.2 | 3.0 | 3.0 | 0.422 | 0.422 | | | | | | | 0.001 |
| 2.6 | 2.8 | 2.8 | 0.425 | 0.425 | | | | | | | 0.004 |

Note: Compression Ratio = $\frac{\Delta \epsilon}{\log(\sigma_2/\sigma_1)}$

Project: Route 67

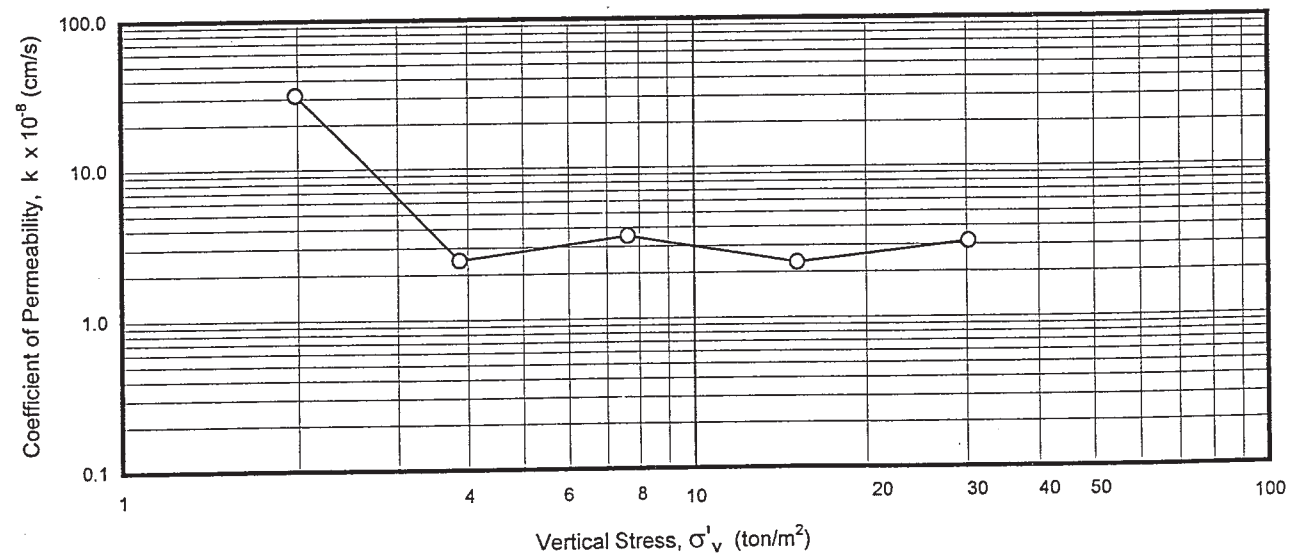
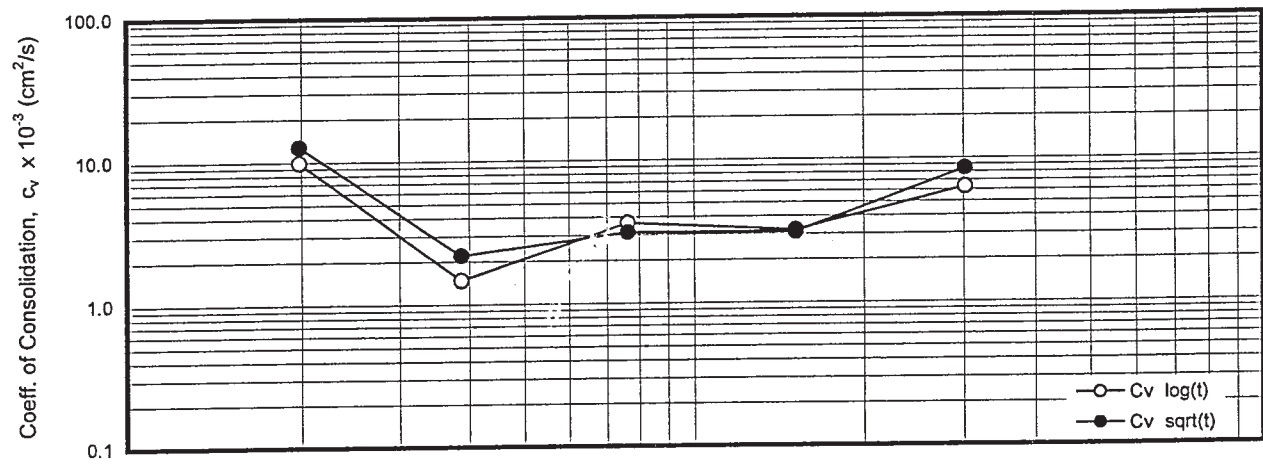
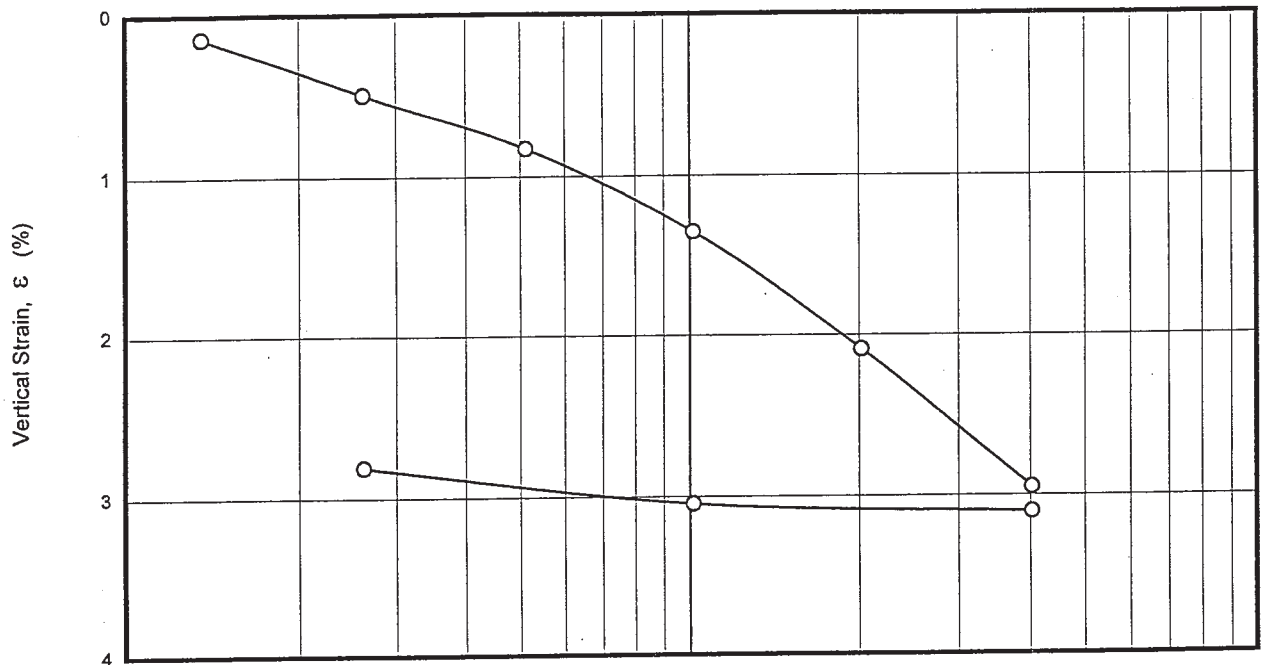
Tested by: MAA

Description: Angkor Wat South

Location: Cambodia

Depth (m.): -

Sample No: 5





MAA GEOTECHNICS CO., LTD.

CONSOLIDATION TEST

Project: Route 67
 Location: Cambodia
 Tested by: MAA

Description: WT-4
 Sample No: 6
 Depth (m.): -

| Vertical Stress (ton/m ²) | Vertical Disp. | | Height of Sample | | | Soil Description: | Silty SAND | |
|--|---------------------------|-------------------------|--------------------------|---------------------------|-------------------------|--|------------|--------------------|
| | d ₁₀₀ (mm.) | d _r (mm.) | H ₅₀ (mm.) | H ₁₀₀ (mm.) | H _r (mm.) | Water Content, w _n | 10.0 | % |
| 1.4 | 0.068 | 0.074 | 19.066 | 19.032 | 19.026 | Initial Void Ratio, e ₀ | 0.279 | |
| 2.6 | 0.019 | 0.021 | 19.017 | 19.007 | 19.005 | Total Unit Weight, γ _t | 2.17 | ton/m ³ |
| 5.1 | 0.030 | 0.040 | 18.990 | 18.975 | 18.965 | Specific Gravity, G _s | 2.64 | |
| 10.2 | 0.031 | 0.045 | 18.950 | 18.934 | 18.920 | Liquid Limit, LL | - | % |
| 20.2 | 0.040 | 0.044 | 18.900 | 18.880 | 18.876 | Plasticity Index, PI | - | % |
| 40.4 | 0.048 | 0.055 | 18.852 | 18.828 | 18.821 | Sample Height, H | 1.9 | cm. |
| 10.2 | -0.007 | -0.008 | 18.825 | 18.828 | 18.829 | Sample Area, A | 19.87 | cm ² |
| 2.6 | -0.017 | -0.020 | 18.837 | 18.846 | 18.849 | Height of Solid, H _s | 1.564 | cm. |
| | | | | | | Preconsolidation Pressure, σ _{c'} | - | ton/m ² |

| Vertical Stress (ton/m ²) | Vertical Strain | | Void ratio | | Time | | Coefficient of Consolidation | | | Permea. k x 10 ⁻⁸ (cm/sec) | Compres. Ratio CR |
|--|-------------------------|-----------------------|------------------|----------------|---------------------------|---------------------------|--|--------|---------|---|-------------------------|
| | ε ₁₀₀ (%) | ε _r (%) | e ₁₀₀ | e _r | t ₉₀ (min.) | t ₅₀ (min.) | c _v x 10 ⁻³ (cm ² /sec) | | | | |
| | | | | | | | sqrt(t) | log(t) | Average | | |
| 1.4 | 0.4 | 0.4 | 0.274 | 0.274 | | | | | | | |
| 2.6 | 0.5 | 0.5 | 0.272 | 0.272 | 6.3 | 2.0 | 2.0 | 1.5 | 1.8 | 1.8 | 0.005 |
| 5.1 | 0.7 | 0.7 | 0.270 | 0.270 | 5.3 | 1.6 | 2.4 | 1.9 | 2.1 | 1.4 | 0.006 |
| 10.2 | 0.9 | 0.9 | 0.268 | 0.267 | 4.8 | 1.3 | 2.6 | 2.3 | 2.4 | 1.0 | 0.007 |
| 20.2 | 1.1 | 1.2 | 0.264 | 0.264 | 4.8 | 1.5 | 2.6 | 2.0 | 2.3 | 0.6 | 0.009 |
| 40.4 | 1.4 | 1.5 | 0.261 | 0.260 | 7.8 | 2.0 | 1.6 | 1.5 | 1.5 | 0.2 | 0.009 |
| 10.2 | 1.4 | 1.4 | 0.261 | 0.261 | | | | | | | 0.001 |
| 2.6 | 1.3 | 1.3 | 0.262 | 0.262 | | | | | | | 0.002 |

Note: Compression Ratio = $\frac{\Delta \epsilon}{\log(\sigma_2/\sigma_1)}$

Project: Route 67
 Location: Cambodia

Tested by: MAA
 Depth (m.): -

Description: WT-4
 Sample No: 6

