



SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

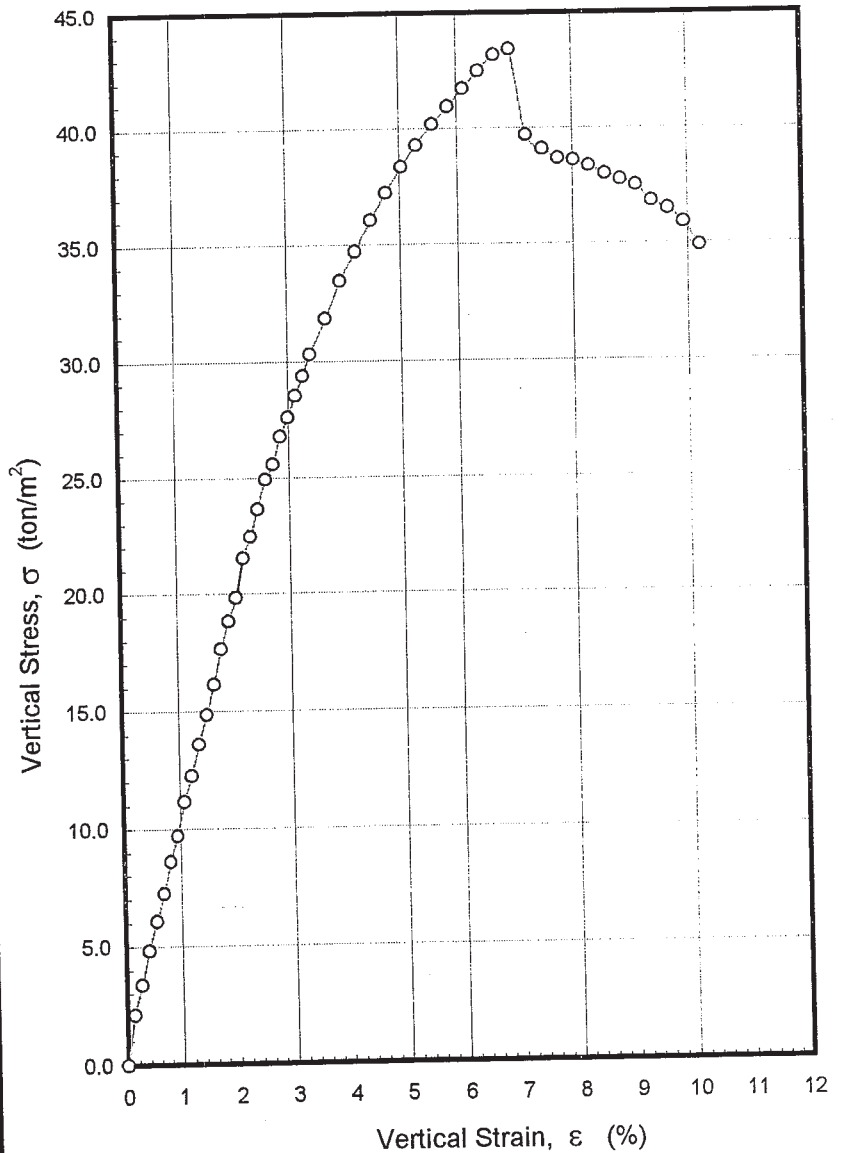
Borehole No: WT-3
 Sample No: DB-1
 Depth (m.): 18.30-18.80

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 6.68 | 43.13 |
| 0.14 | 2.11 | 6.95 | 43.38 |
| 0.27 | 3.38 | 7.22 | 39.67 |
| 0.41 | 4.81 | 7.49 | 39.08 |
| 0.54 | 6.08 | 7.77 | 38.65 |
| 0.68 | 7.26 | 8.04 | 38.57 |
| 0.82 | 8.61 | 8.31 | 38.32 |
| 0.95 | 9.71 | 8.58 | 37.98 |
| 1.09 | 11.14 | 8.86 | 37.73 |
| 1.23 | 12.24 | 9.13 | 37.47 |
| 1.36 | 13.59 | 9.40 | 36.80 |
| 1.50 | 14.85 | 9.67 | 36.46 |
| 1.63 | 16.12 | 9.95 | 35.87 |
| 1.77 | 17.64 | 10.22 | 34.86 |
| 1.91 | 18.82 | | |
| 2.04 | 19.83 | | |
| 2.18 | 21.52 | | |
| 2.32 | 22.45 | | |
| 2.45 | 23.63 | | |
| 2.59 | 24.90 | | |
| 2.72 | 25.57 | | |
| 2.86 | 26.75 | | |
| 3.00 | 27.60 | | |
| 3.13 | 28.53 | | |
| 3.27 | 29.37 | | |
| 3.41 | 30.30 | | |
| 3.68 | 31.82 | | |
| 3.95 | 33.42 | | |
| 4.22 | 34.69 | | |
| 4.50 | 36.04 | | |
| 4.77 | 37.22 | | |
| 5.04 | 38.32 | | |
| 5.31 | 39.25 | | |
| 5.59 | 40.17 | | |
| 5.86 | 40.93 | | |
| 6.13 | 41.69 | | |
| 6.40 | 42.45 | | |
| 6.68 | 43.13 | | |



Failure Mode

| Test Summary | | |
|--|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w_n | 11.7 | % |
| Total Unit Weight, γ_t | 2.13 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 43.4 | ton/m ² |
| Undrained Shear Strength, c_u | 21.7 | ton/m ² |
| Strain at Failure, ϵ_f | 6.9 | % |
| Modulus at 50% Stress Level, E_{50} | 987 | ton/m ² |





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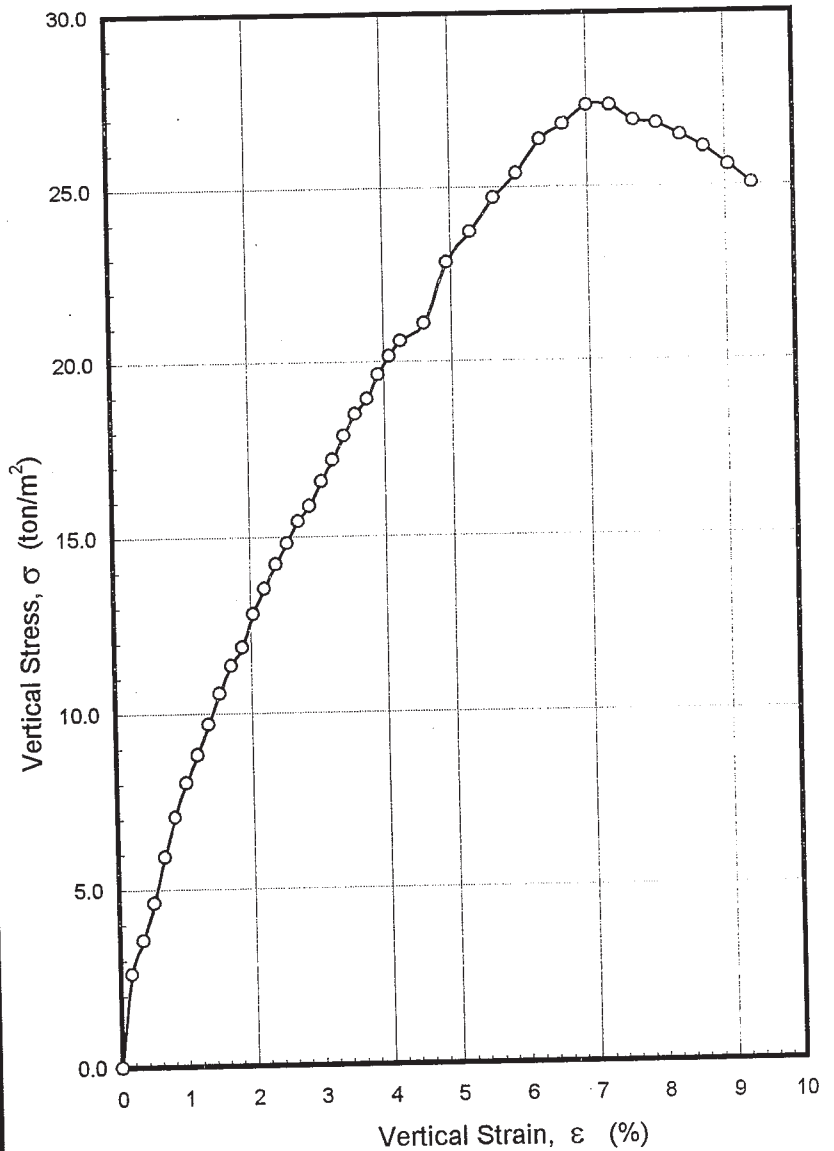
Borehole No: WT-3
 Sample No: DB-2 A
 Depth (m.): 24.00-24.50

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 8.37 | 26.43 |
| 0.17 | 2.62 | 8.71 | 26.08 |
| 0.34 | 3.58 | 9.05 | 25.55 |
| 0.51 | 4.62 | 9.39 | 25.03 |
| 0.68 | 5.93 | | |
| 0.85 | 7.06 | | |
| 1.02 | 8.02 | | |
| 1.20 | 8.81 | | |
| 1.37 | 9.68 | | |
| 1.54 | 10.55 | | |
| 1.71 | 11.34 | | |
| 1.88 | 11.86 | | |
| 2.05 | 12.82 | | |
| 2.22 | 13.52 | | |
| 2.39 | 14.22 | | |
| 2.56 | 14.83 | | |
| 2.73 | 15.44 | | |
| 2.90 | 15.87 | | |
| 3.07 | 16.57 | | |
| 3.25 | 17.18 | | |
| 3.42 | 17.88 | | |
| 3.59 | 18.49 | | |
| 3.76 | 18.93 | | |
| 3.93 | 19.62 | | |
| 4.10 | 20.15 | | |
| 4.27 | 20.58 | | |
| 4.61 | 21.11 | | |
| 4.95 | 22.85 | | |
| 5.29 | 23.72 | | |
| 5.64 | 24.68 | | |
| 5.98 | 25.38 | | |
| 6.32 | 26.34 | | |
| 6.66 | 26.78 | | |
| 7.00 | 27.30 | | |
| 7.34 | 27.30 | | |
| 7.69 | 26.86 | | |
| 8.03 | 26.78 | | |
| 8.37 | 26.43 | | |



Failure Mode

| Test Summary | | | |
|--|------------|--------------------|--|
| Soil Description: | Sandy CLAY | | |
| Water Content, w_n | 15.9 | % | |
| Total Unit Weight, γ_t | 2.15 | ton/m ³ | |
| Unconfined Compressive Strength, q_u | 27.3 | ton/m ² | |
| Undrained Shear Strength, c_u | 13.6 | ton/m ² | |
| Strain at Failure, ϵ_f | 7.3 | % | |
| Modulus at 50% Stress Level, E_{50} | 609 | ton/m ² | |





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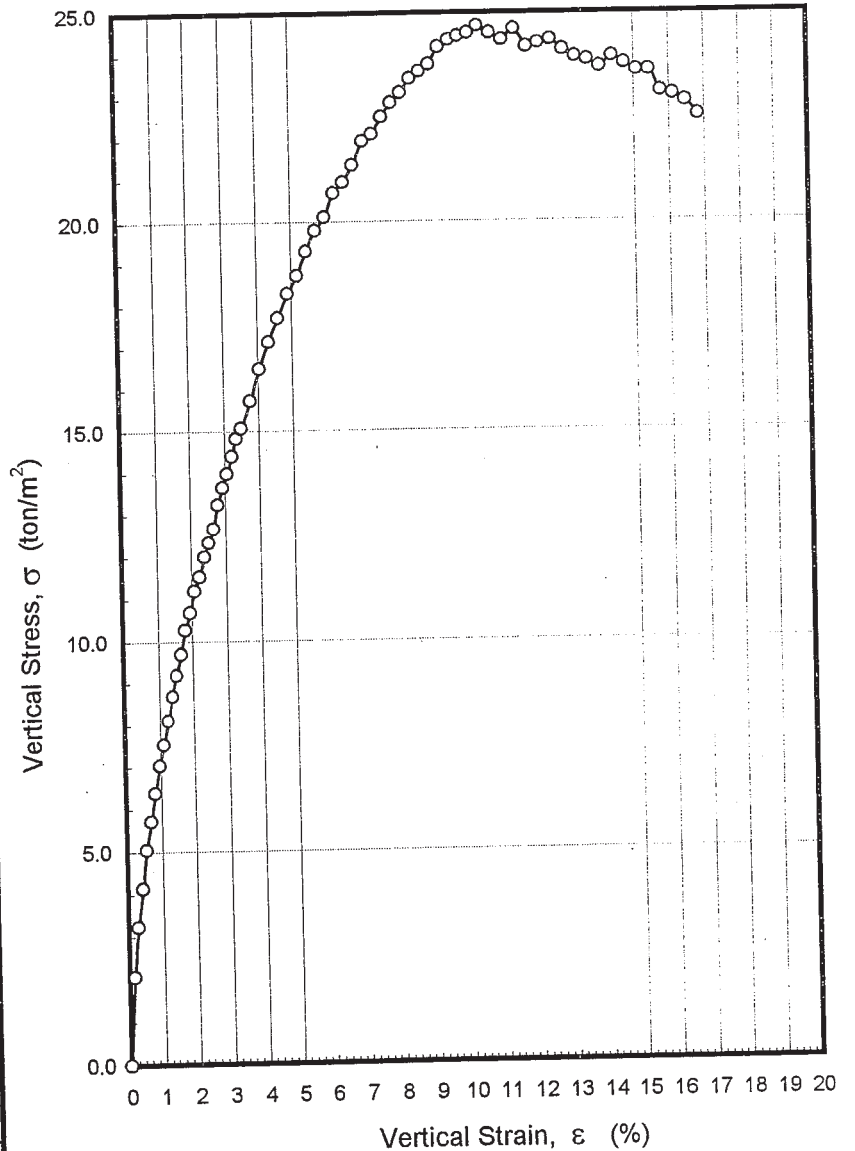
Borehole No: WT-3
 Sample No: DB-2 B
 Depth (m.): 24.00 - 24.50

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 6.87 | 21.36 |
| 0.14 | 2.07 | 7.15 | 21.94 |
| 0.28 | 3.23 | 7.43 | 22.10 |
| 0.42 | 4.14 | 7.71 | 22.51 |
| 0.56 | 5.05 | 7.99 | 22.85 |
| 0.70 | 5.71 | 8.27 | 23.09 |
| 0.84 | 6.37 | 8.56 | 23.42 |
| 0.98 | 7.04 | 8.84 | 23.59 |
| 1.12 | 7.53 | 9.12 | 23.76 |
| 1.26 | 8.11 | 9.40 | 24.17 |
| 1.40 | 8.69 | 9.68 | 24.34 |
| 1.54 | 9.19 | 9.96 | 24.42 |
| 1.68 | 9.68 | 10.24 | 24.50 |
| 1.82 | 10.26 | 10.52 | 24.67 |
| 1.96 | 10.68 | 10.87 | 24.50 |
| 2.10 | 11.17 | 11.22 | 24.34 |
| 2.24 | 11.51 | 11.57 | 24.58 |
| 2.38 | 12.00 | 11.92 | 24.17 |
| 2.52 | 12.33 | 12.27 | 24.25 |
| 2.66 | 12.66 | 12.62 | 24.34 |
| 2.81 | 13.24 | 12.97 | 24.09 |
| 2.95 | 13.66 | 13.32 | 23.92 |
| 3.09 | 13.99 | 13.67 | 23.84 |
| 3.23 | 14.40 | 14.03 | 23.67 |
| 3.37 | 14.82 | 14.38 | 23.92 |
| 3.51 | 15.06 | 14.73 | 23.76 |
| 3.79 | 15.73 | 15.08 | 23.59 |
| 4.07 | 16.47 | 15.43 | 23.59 |
| 4.35 | 17.13 | 15.78 | 23.09 |
| 4.63 | 17.71 | 16.13 | 23.01 |
| 4.91 | 18.29 | 16.48 | 22.85 |
| 5.19 | 18.71 | 16.83 | 22.51 |
| 5.47 | 19.29 | | |
| 5.75 | 19.78 | | |
| 6.03 | 20.11 | | |
| 6.31 | 20.69 | | |
| 6.59 | 20.94 | | |
| 6.87 | 21.36 | | |



Failure Mode

| Test Summary | | |
|---|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w _n | 16.1 | % |
| Total Unit Weight, γ _t | 2.12 | ton/m ³ |
| Unconfined Compressive Strength, q _u | 24.7 | ton/m ² |
| Undrained Shear Strength, c _u | 12.3 | ton/m ² |
| Strain at Failure, ε _f | 10.5 | % |
| Modulus at 50% Stress Level, E ₅₀ | 489 | ton/m ² |





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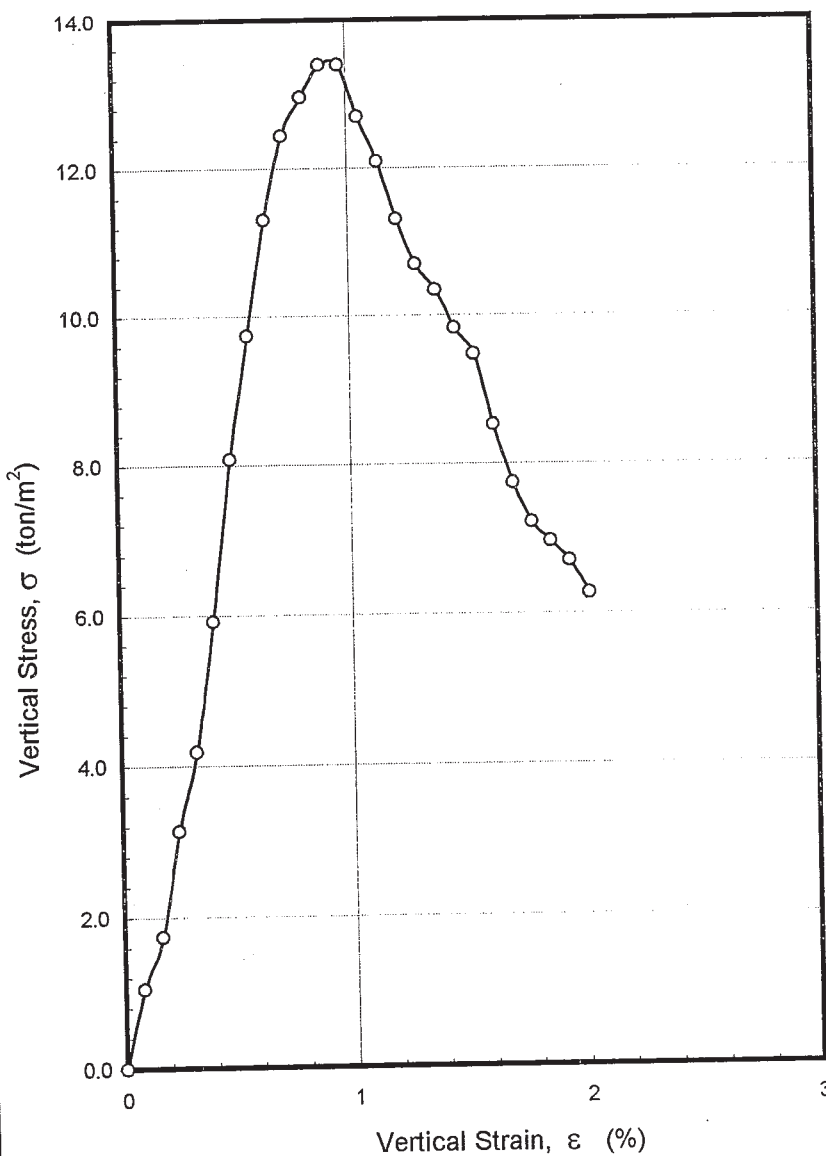
Borehole No: WT-3
 Sample No: DB-3
 Depth (m.): 27.20 - 27.50

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | | |
| 0.08 | 1.04 | | |
| 0.16 | 1.74 | | |
| 0.24 | 3.13 | | |
| 0.32 | 4.17 | | |
| 0.40 | 5.91 | | |
| 0.48 | 8.08 | | |
| 0.57 | 9.74 | | |
| 0.65 | 11.30 | | |
| 0.73 | 12.43 | | |
| 0.81 | 12.95 | | |
| 0.89 | 13.39 | | |
| 0.97 | 13.39 | | |
| 1.05 | 12.69 | | |
| 1.13 | 12.08 | | |
| 1.21 | 11.30 | | |
| 1.29 | 10.69 | | |
| 1.37 | 10.34 | | |
| 1.45 | 9.82 | | |
| 1.53 | 9.48 | | |
| 1.62 | 8.52 | | |
| 1.70 | 7.74 | | |
| 1.78 | 7.22 | | |
| 1.86 | 6.95 | | |
| 1.94 | 6.69 | | |
| 2.02 | 6.26 | | |



Failure Mode

| Test Summary | | |
|---|-------------|--------------------|
| Soil Description: | Clayey SAND | |
| Water Content, w _n | 12.8 | % |
| Total Unit Weight, γ _t | 2.17 | ton/m ³ |
| Unconfined Compressive Strength, q _u | 13.4 | ton/m ² |
| Undrained Shear Strength, c _u | 6.7 | ton/m ² |
| Strain at Failure, ε _f | 1.0 | % |
| Modulus at 50% Stress Level, E ₅₀ | 1,464 | ton/m ² |





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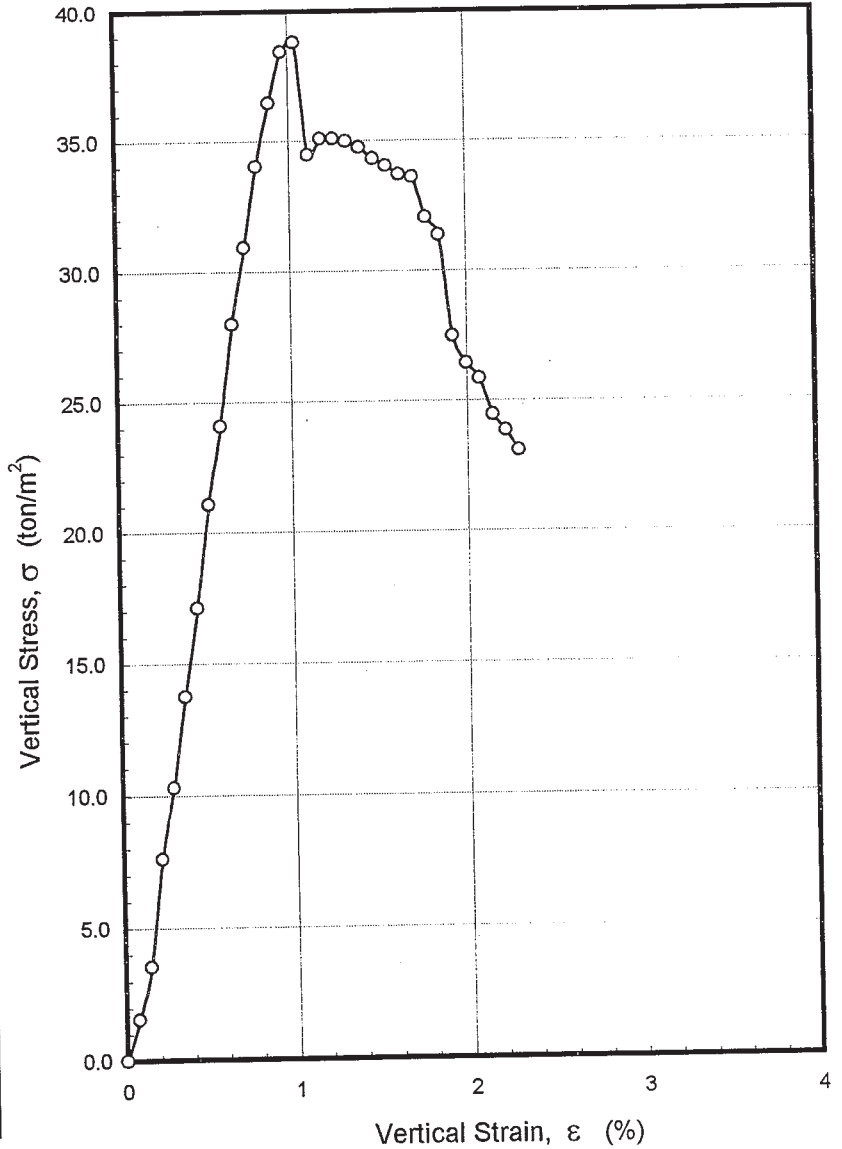
Borehole No: WT-3
 Sample No: DB-4 A
 Depth (m.): 29.00 - 29.50

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | | |
| 0.07 | 1.55 | | |
| 0.15 | 3.54 | | |
| 0.22 | 7.60 | | |
| 0.30 | 10.28 | | |
| 0.37 | 13.73 | | |
| 0.44 | 17.10 | | |
| 0.52 | 21.07 | | |
| 0.59 | 24.09 | | |
| 0.67 | 27.98 | | |
| 0.74 | 30.92 | | |
| 0.81 | 34.02 | | |
| 0.89 | 36.44 | | |
| 0.96 | 38.43 | | |
| 1.04 | 38.77 | | |
| 1.11 | 34.46 | | |
| 1.19 | 35.06 | | |
| 1.26 | 35.06 | | |
| 1.33 | 34.97 | | |
| 1.41 | 34.72 | | |
| 1.48 | 34.28 | | |
| 1.56 | 34.02 | | |
| 1.63 | 33.68 | | |
| 1.70 | 33.59 | | |
| 1.78 | 32.04 | | |
| 1.85 | 31.35 | | |
| 1.93 | 27.46 | | |
| 2.00 | 26.43 | | |
| 2.07 | 25.82 | | |
| 2.15 | 24.44 | | |
| 2.22 | 23.83 | | |
| 2.30 | 23.06 | | |
| | | | |
| | | | |
| | | | |
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| | | | |



Failure Mode

| Test Summary | | | |
|--|------------|--------------------|--|
| Soil Description: | Sandy CLAY | | |
| Water Content, w_n | 11.7 | % | |
| Total Unit Weight, γ_t | 2.19 | ton/m ³ | |
| Unconfined Compressive Strength, q_u | 38.8 | ton/m ² | |
| Undrained Shear Strength, c_u | 19.4 | ton/m ² | |
| Strain at Failure, ϵ_f | 1.0 | % | |
| Modulus at 50% Stress Level, E_{50} | 3,847 | ton/m ² | |





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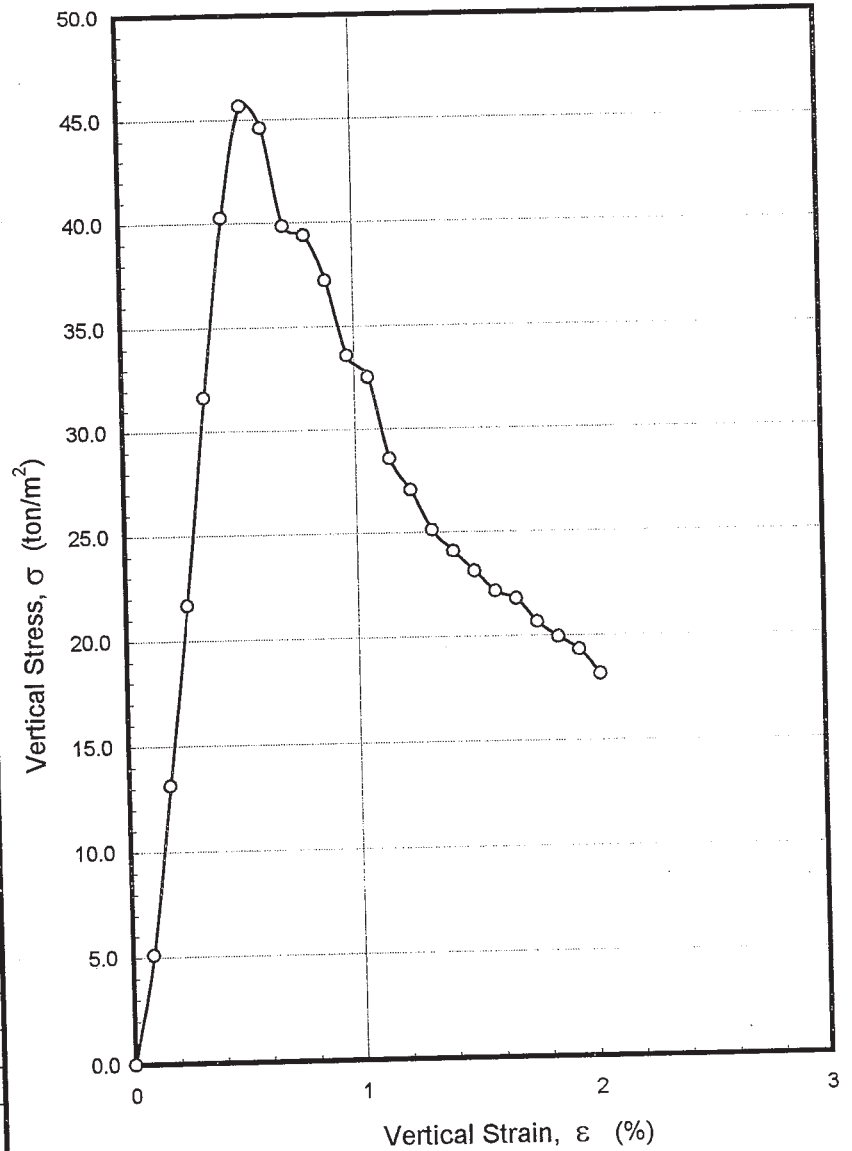
Borehole No: WT-3
 Sample No: DB-4 B
 Depth (m.): 29.00 - 29.50

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | | |
| 0.09 | 5.11 | | |
| 0.18 | 13.13 | | |
| 0.27 | 21.67 | | |
| 0.35 | 31.62 | | |
| 0.44 | 40.26 | | |
| 0.53 | 45.63 | | |
| 0.62 | 44.57 | | |
| 0.71 | 39.82 | | |
| 0.80 | 39.38 | | |
| 0.88 | 37.17 | | |
| 0.97 | 33.56 | | |
| 1.06 | 32.51 | | |
| 1.15 | 28.54 | | |
| 1.24 | 27.04 | | |
| 1.33 | 25.11 | | |
| 1.41 | 24.05 | | |
| 1.50 | 23.08 | | |
| 1.59 | 22.11 | | |
| 1.68 | 21.76 | | |
| 1.77 | 20.61 | | |
| 1.86 | 19.91 | | |
| 1.94 | 19.29 | | |
| 2.03 | 18.15 | | |



Failure Mode

| Test Summary | | |
|---|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w _n | 11.2 | % |
| Total Unit Weight, γ _t | 2.31 | ton/m ³ |
| Unconfined Compressive Strength, q _u | 45.6 | ton/m ² |
| Undrained Shear Strength, c _u | 22.8 | ton/m ² |
| Strain at Failure, ε _f | 0.5 | % |
| Modulus at 50% Stress Level, E ₅₀ | 8,177 | ton/m ² |





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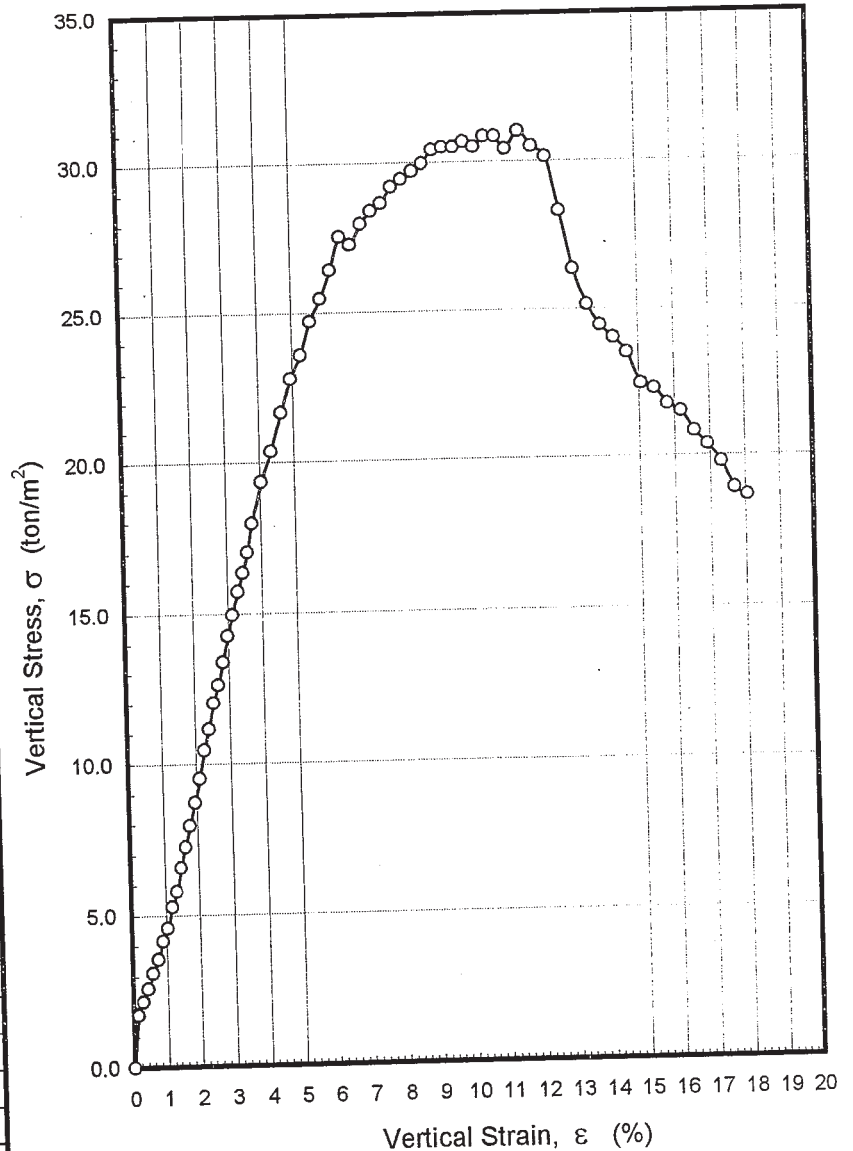
Borehole No: WT-3
 Sample No: DB-5 A
 Depth (m.): 33.00 - 33.45

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 7.38 | 28.41 |
| 0.15 | 1.73 | 7.68 | 28.67 |
| 0.30 | 2.16 | 7.98 | 29.19 |
| 0.45 | 2.59 | 8.28 | 29.45 |
| 0.60 | 3.11 | 8.58 | 29.71 |
| 0.75 | 3.54 | 8.89 | 29.97 |
| 0.90 | 4.15 | 9.19 | 30.40 |
| 1.05 | 4.58 | 9.49 | 30.48 |
| 1.20 | 5.27 | 9.79 | 30.48 |
| 1.36 | 5.79 | 10.09 | 30.66 |
| 1.51 | 6.56 | 10.39 | 30.48 |
| 1.66 | 7.25 | 10.69 | 30.83 |
| 1.81 | 7.94 | 10.99 | 30.83 |
| 1.96 | 8.72 | 11.30 | 30.40 |
| 2.11 | 9.50 | 11.67 | 31.00 |
| 2.26 | 10.45 | 12.05 | 30.48 |
| 2.41 | 11.14 | 12.42 | 30.14 |
| 2.56 | 12.00 | 12.80 | 28.33 |
| 2.71 | 12.61 | 13.18 | 26.34 |
| 2.86 | 13.39 | 13.55 | 25.13 |
| 3.01 | 14.25 | 13.93 | 24.44 |
| 3.16 | 14.94 | 14.31 | 24.01 |
| 3.31 | 15.72 | 14.68 | 23.49 |
| 3.46 | 16.32 | 15.06 | 22.45 |
| 3.61 | 17.01 | 15.44 | 22.28 |
| 3.77 | 17.96 | 15.81 | 21.76 |
| 4.07 | 19.34 | 16.19 | 21.50 |
| 4.37 | 20.38 | 16.57 | 20.81 |
| 4.67 | 21.68 | 16.94 | 20.38 |
| 4.97 | 22.80 | 17.32 | 19.78 |
| 5.27 | 23.58 | 17.70 | 18.91 |
| 5.57 | 24.70 | 18.07 | 18.65 |
| 5.87 | 25.48 | | |
| 6.17 | 26.43 | | |
| 6.48 | 27.55 | | |
| 6.78 | 27.29 | | |
| 7.08 | 27.98 | | |
| 7.38 | 28.41 | | |



Failure Mode

| Test Summary | | |
|--|-------------|--------------------|
| Soil Description: | Clayey SAND | |
| Water Content, w_n | 13.5 | % |
| Total Unit Weight, γ_t | 2.28 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 31.0 | ton/m ² |
| Undrained Shear Strength, c_u | 15.5 | ton/m ² |
| Strain at Failure, ϵ_f | 11.7 | % |
| Modulus at 50% Stress Level, E_{50} | 472 | ton/m ² |





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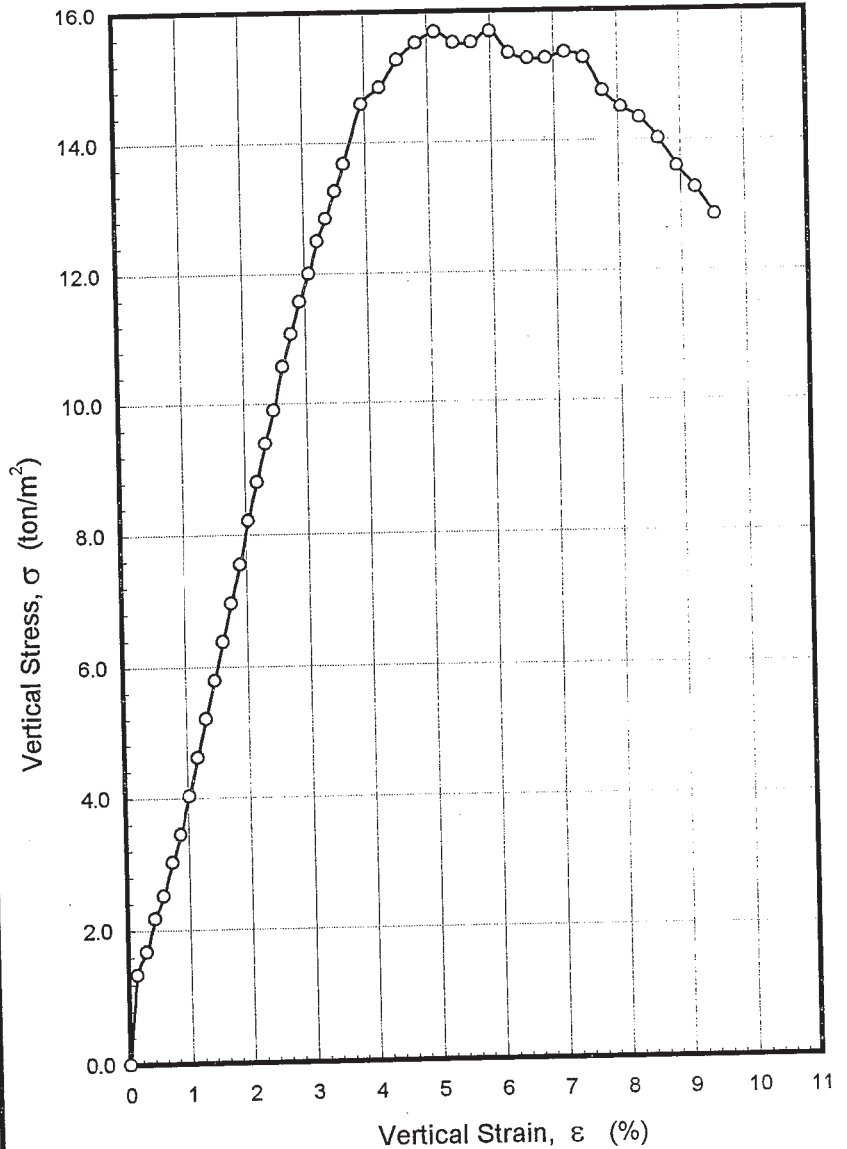
Borehole No: WT-3
 Sample No: DB-5 B
 Depth (m.): 33.00 - 33.45

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 7.18 | 15.34 |
| 0.15 | 1.34 | 7.48 | 15.26 |
| 0.29 | 1.68 | 7.77 | 14.76 |
| 0.44 | 2.18 | 8.06 | 14.51 |
| 0.59 | 2.52 | 8.36 | 14.34 |
| 0.73 | 3.02 | 8.65 | 14.00 |
| 0.88 | 3.44 | 8.94 | 13.58 |
| 1.03 | 4.02 | 9.24 | 13.25 |
| 1.17 | 4.61 | 9.53 | 12.83 |
| 1.32 | 5.20 | | |
| 1.47 | 5.79 | | |
| 1.61 | 6.37 | | |
| 1.76 | 6.96 | | |
| 1.91 | 7.55 | | |
| 2.05 | 8.22 | | |
| 2.20 | 8.80 | | |
| 2.35 | 9.39 | | |
| 2.49 | 9.89 | | |
| 2.64 | 10.57 | | |
| 2.79 | 11.07 | | |
| 2.93 | 11.57 | | |
| 3.08 | 11.99 | | |
| 3.23 | 12.49 | | |
| 3.37 | 12.83 | | |
| 3.52 | 13.25 | | |
| 3.67 | 13.67 | | |
| 3.96 | 14.59 | | |
| 4.25 | 14.84 | | |
| 4.55 | 15.26 | | |
| 4.84 | 15.51 | | |
| 5.13 | 15.68 | | |
| 5.43 | 15.51 | | |
| 5.72 | 15.51 | | |
| 6.01 | 15.68 | | |
| 6.30 | 15.34 | | |
| 6.60 | 15.26 | | |
| 6.89 | 15.26 | | |
| 7.18 | 15.34 | | |



Failure Mode

| Test Summary | | |
|--|-------------|--------------------|
| Soil Description: | Clayey SAND | |
| Water Content, w_n | 14.5 | % |
| Total Unit Weight, γ_t | 1.98 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 15.7 | ton/m ² |
| Undrained Shear Strength, c_u | 7.8 | ton/m ² |
| Strain at Failure, ϵ_f | 6.0 | % |
| Modulus at 50% Stress Level, E_{50} | 396 | ton/m ² |





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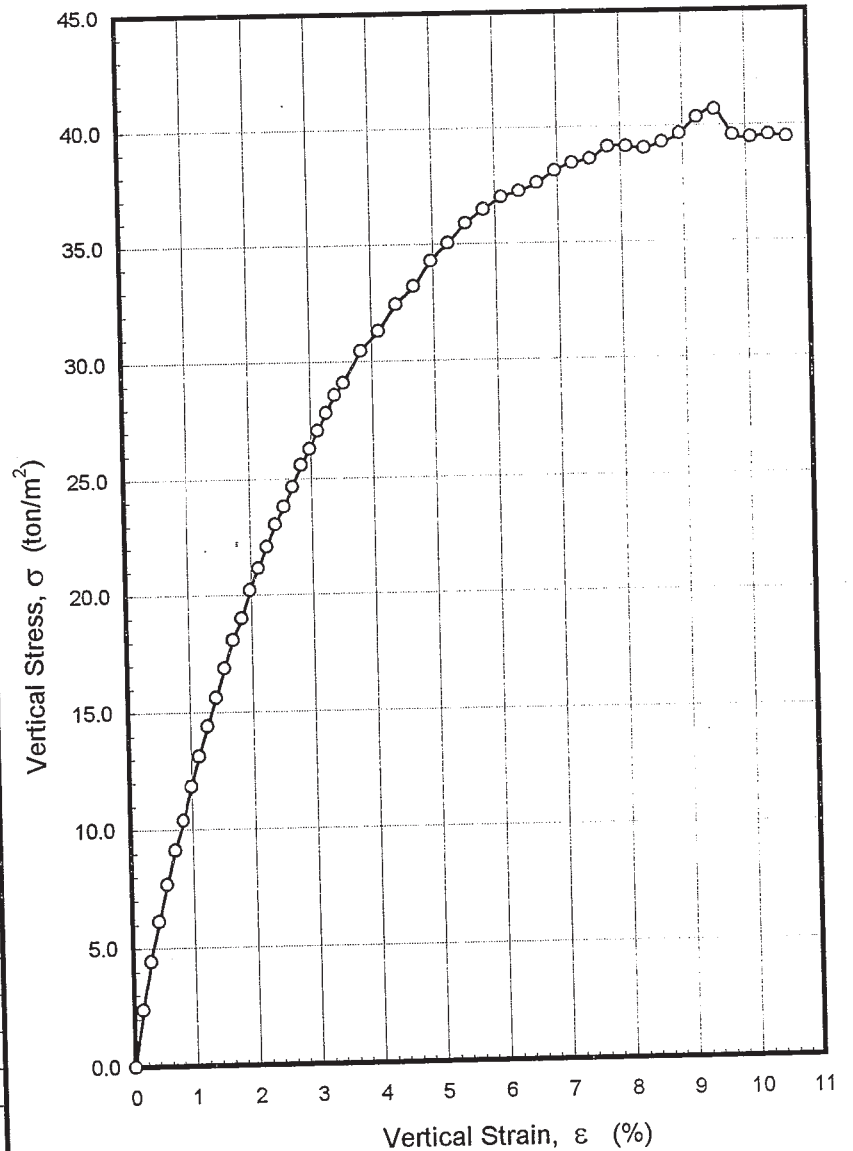
Borehole No: WT-3
 Sample No: DB-6 A
 Depth (m.): 36.10 - 36.60

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 6.97 | 38.10 |
| 0.14 | 2.39 | 7.25 | 38.44 |
| 0.28 | 4.43 | 7.53 | 38.61 |
| 0.43 | 6.14 | 7.82 | 39.12 |
| 0.57 | 7.67 | 8.10 | 39.12 |
| 0.71 | 9.12 | 8.39 | 39.04 |
| 0.85 | 10.40 | 8.67 | 39.29 |
| 1.00 | 11.85 | 8.96 | 39.63 |
| 1.14 | 13.13 | 9.24 | 40.31 |
| 1.28 | 14.40 | 9.52 | 40.65 |
| 1.42 | 15.60 | 9.81 | 39.55 |
| 1.56 | 16.88 | 10.09 | 39.46 |
| 1.71 | 18.07 | 10.38 | 39.55 |
| 1.85 | 19.01 | 10.66 | 39.46 |
| 1.99 | 20.20 | | |
| 2.13 | 21.14 | | |
| 2.27 | 22.07 | | |
| 2.42 | 23.01 | | |
| 2.56 | 23.78 | | |
| 2.70 | 24.63 | | |
| 2.84 | 25.57 | | |
| 2.99 | 26.25 | | |
| 3.13 | 27.02 | | |
| 3.27 | 27.79 | | |
| 3.41 | 28.55 | | |
| 3.55 | 29.06 | | |
| 3.84 | 30.43 | | |
| 4.12 | 31.28 | | |
| 4.41 | 32.39 | | |
| 4.69 | 33.15 | | |
| 4.98 | 34.26 | | |
| 5.26 | 35.03 | | |
| 5.54 | 35.88 | | |
| 5.83 | 36.48 | | |
| 6.11 | 36.99 | | |
| 6.40 | 37.25 | | |
| 6.68 | 37.59 | | |
| 6.97 | 38.10 | | |



Failure Mode

| Test Summary | | | |
|--|------------|--------------------|--|
| Soil Description: | Sandy CLAY | | |
| Water Content, w_n | 15.6 | % | |
| Total Unit Weight, γ_t | 2.18 | ton/m ³ | |
| Unconfined Compressive Strength, q_u | 40.7 | ton/m ² | |
| Undrained Shear Strength, c_u | 20.3 | ton/m ² | |
| Strain at Failure, ϵ_f | 9.5 | % | |
| Modulus at 50% Stress Level, E_{50} | 1,015 | ton/m ² | |





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Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

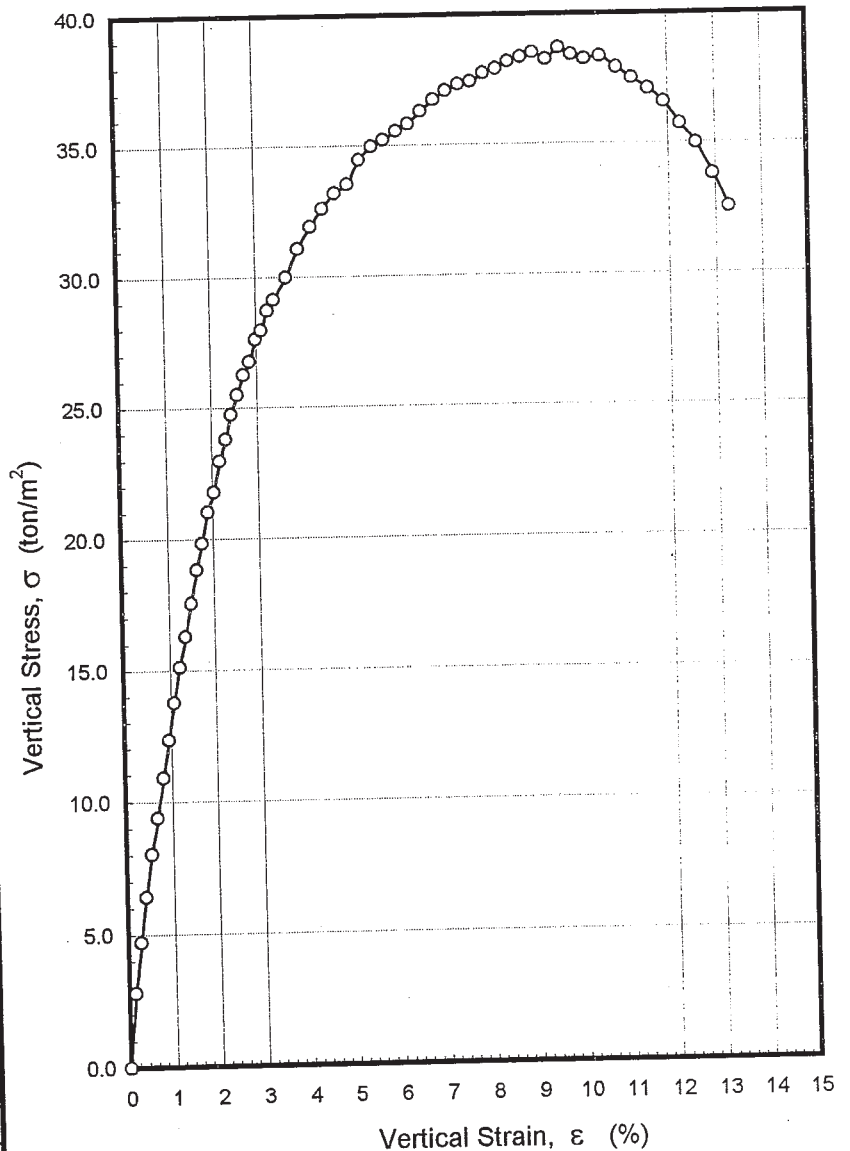
Borehole No: WT-3
 Sample No: DB-6 B
 Depth (m.): 36.10 - 36.60

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 6.68 | 36.29 |
| 0.14 | 2.79 | 6.95 | 36.71 |
| 0.27 | 4.73 | 7.23 | 37.05 |
| 0.41 | 6.41 | 7.50 | 37.30 |
| 0.55 | 8.02 | 7.77 | 37.39 |
| 0.68 | 9.37 | 8.04 | 37.73 |
| 0.82 | 10.89 | 8.32 | 37.90 |
| 0.95 | 12.32 | 8.59 | 38.15 |
| 1.09 | 13.76 | 8.86 | 38.32 |
| 1.23 | 15.11 | 9.13 | 38.49 |
| 1.36 | 16.29 | 9.41 | 38.23 |
| 1.50 | 17.56 | 9.68 | 38.65 |
| 1.64 | 18.82 | 9.95 | 38.40 |
| 1.77 | 19.83 | 10.22 | 38.23 |
| 1.91 | 21.02 | 10.57 | 38.32 |
| 2.04 | 21.78 | 10.91 | 37.90 |
| 2.18 | 22.96 | 11.25 | 37.47 |
| 2.32 | 23.80 | 11.59 | 37.05 |
| 2.45 | 24.73 | 11.93 | 36.54 |
| 2.59 | 25.49 | 12.27 | 35.70 |
| 2.73 | 26.25 | 12.61 | 34.94 |
| 2.86 | 26.75 | 12.95 | 33.76 |
| 3.00 | 27.60 | 13.29 | 32.49 |
| 3.14 | 27.94 | | |
| 3.27 | 28.70 | | |
| 3.41 | 29.12 | | |
| 3.68 | 29.96 | | |
| 3.95 | 31.06 | | |
| 4.23 | 31.90 | | |
| 4.50 | 32.58 | | |
| 4.77 | 33.17 | | |
| 5.04 | 33.51 | | |
| 5.32 | 34.43 | | |
| 5.59 | 34.94 | | |
| 5.86 | 35.19 | | |
| 6.13 | 35.53 | | |
| 6.41 | 35.79 | | |
| 6.68 | 36.29 | | |



Failure Mode

| Test Summary | | |
|---|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w _n | 14.6 | % |
| Total Unit Weight, γ _t | 2.17 | ton/m ³ |
| Unconfined Compressive Strength, q _u | 38.7 | ton/m ² |
| Undrained Shear Strength, c _u | 19.3 | ton/m ² |
| Strain at Failure, ε _f | 9.7 | % |
| Modulus at 50% Stress Level, E ₅₀ | 1,150 | ton/m ² |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

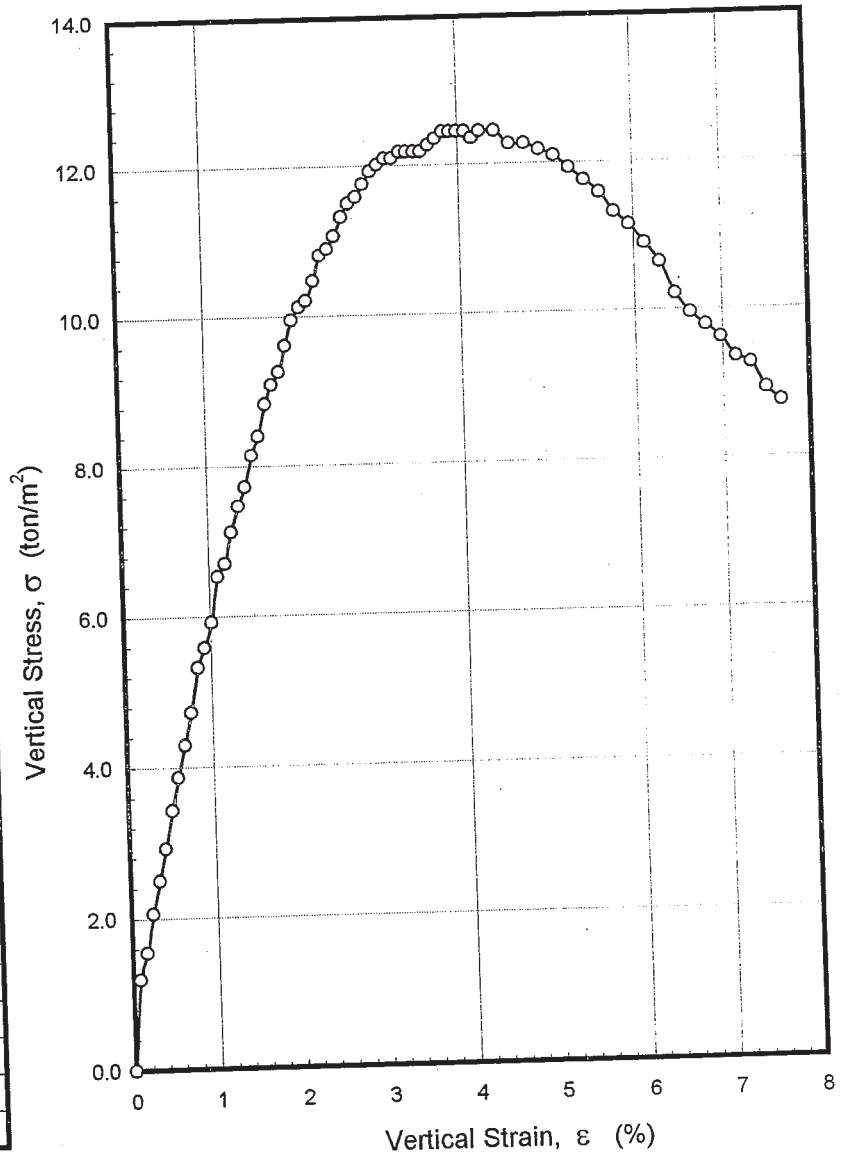
Borehole No: WT-4
 Sample No: DB-1
 Depth (m.): 9.40 - 9.60

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 3.15 | 12.10 |
| 0.09 | 1.20 | 3.24 | 12.10 |
| 0.17 | 1.54 | 3.32 | 12.18 |
| 0.26 | 2.06 | 3.41 | 12.18 |
| 0.34 | 2.49 | 3.49 | 12.18 |
| 0.43 | 2.92 | 3.58 | 12.18 |
| 0.51 | 3.43 | 3.66 | 12.27 |
| 0.60 | 3.86 | 3.75 | 12.35 |
| 0.68 | 4.29 | 3.83 | 12.44 |
| 0.77 | 4.72 | 3.92 | 12.44 |
| 0.85 | 5.32 | 4.00 | 12.44 |
| 0.94 | 5.58 | 4.09 | 12.44 |
| 1.02 | 5.92 | 4.17 | 12.35 |
| 1.11 | 6.52 | 4.26 | 12.44 |
| 1.19 | 6.69 | 4.43 | 12.44 |
| 1.28 | 7.12 | 4.60 | 12.27 |
| 1.36 | 7.46 | 4.77 | 12.27 |
| 1.45 | 7.72 | 4.94 | 12.18 |
| 1.53 | 8.15 | 5.11 | 12.10 |
| 1.62 | 8.41 | 5.28 | 11.92 |
| 1.70 | 8.84 | 5.45 | 11.75 |
| 1.79 | 9.09 | 5.62 | 11.58 |
| 1.87 | 9.27 | 5.79 | 11.32 |
| 1.96 | 9.61 | 5.96 | 11.15 |
| 2.04 | 9.95 | 6.13 | 10.90 |
| 2.13 | 10.12 | 6.30 | 10.64 |
| 2.21 | 10.21 | 6.47 | 10.21 |
| 2.30 | 10.47 | 6.64 | 9.95 |
| 2.39 | 10.81 | 6.81 | 9.78 |
| 2.47 | 10.90 | 6.98 | 9.61 |
| 2.56 | 11.07 | 7.16 | 9.35 |
| 2.64 | 11.32 | 7.33 | 9.27 |
| 2.73 | 11.50 | 7.50 | 8.92 |
| 2.81 | 11.58 | 7.67 | 8.75 |
| 2.90 | 11.75 | | |
| 2.98 | 11.92 | | |
| 3.07 | 12.01 | | |



Failure Mode

| Test Summary | | |
|--|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w_n | 16.9 | % |
| Total Unit Weight, γ_t | 2.11 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 12.4 | ton/m ² |
| Undrained Shear Strength, c_u | 6.2 | ton/m ² |
| Strain at Failure, ϵ_f | 4.4 | % |
| Modulus at 50% Stress Level, E_{50} | 579 | ton/m ² |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

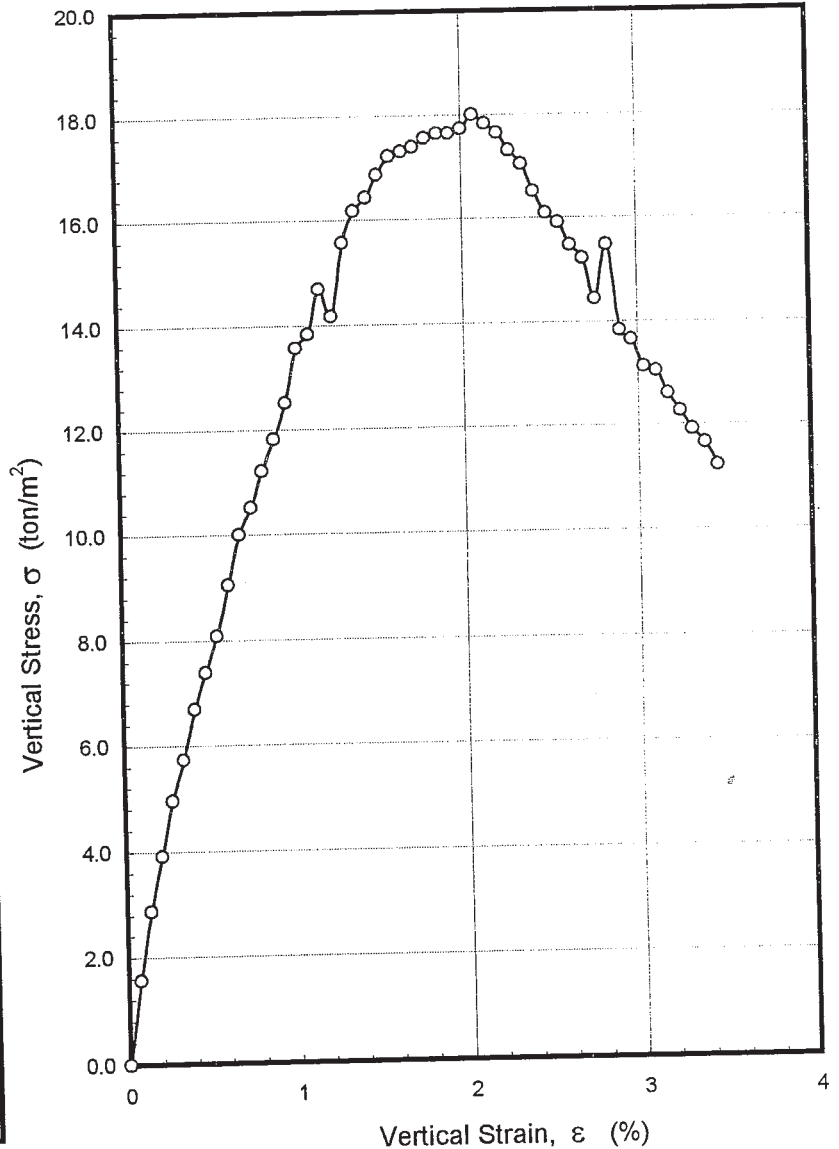
Borehole No: WT-4
 Sample No: DB-2 A
 Depth (m.): 18.40 - 18.80

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 2.56 | 15.91 |
| 0.07 | 1.56 | 2.62 | 15.47 |
| 0.14 | 2.87 | 2.69 | 15.21 |
| 0.21 | 3.91 | 2.76 | 14.43 |
| 0.28 | 4.95 | 2.83 | 15.47 |
| 0.35 | 5.74 | 2.90 | 13.82 |
| 0.41 | 6.69 | 2.97 | 13.65 |
| 0.48 | 7.39 | 3.04 | 13.13 |
| 0.55 | 8.08 | 3.11 | 13.04 |
| 0.62 | 9.04 | 3.18 | 12.60 |
| 0.69 | 10.00 | 3.25 | 12.26 |
| 0.76 | 10.52 | 3.31 | 11.91 |
| 0.83 | 11.21 | 3.38 | 11.65 |
| 0.90 | 11.82 | 3.45 | 11.21 |
| 0.97 | 12.52 | | |
| 1.04 | 13.56 | | |
| 1.10 | 13.82 | | |
| 1.17 | 14.69 | | |
| 1.24 | 14.17 | | |
| 1.31 | 15.56 | | |
| 1.38 | 16.17 | | |
| 1.45 | 16.43 | | |
| 1.52 | 16.86 | | |
| 1.59 | 17.21 | | |
| 1.66 | 17.30 | | |
| 1.73 | 17.39 | | |
| 1.80 | 17.56 | | |
| 1.86 | 17.65 | | |
| 1.93 | 17.65 | | |
| 2.00 | 17.73 | | |
| 2.07 | 17.99 | | |
| 2.14 | 17.82 | | |
| 2.21 | 17.65 | | |
| 2.28 | 17.30 | | |
| 2.35 | 17.04 | | |
| 2.42 | 16.52 | | |
| 2.49 | 16.08 | | |



Failure Mode

| Test Summary | | |
|---|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w _n | 11.4 | % |
| Total Unit Weight, γ _t | 2.21 | ton/m ³ |
| Unconfined Compressive Strength, q _u | 18.0 | ton/m ² |
| Undrained Shear Strength, c _u | 9.0 | ton/m ² |
| Strain at Failure, ε _f | 2.1 | % |
| Modulus at 50% Stress Level, E ₅₀ | 1,463 | ton/m ² |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

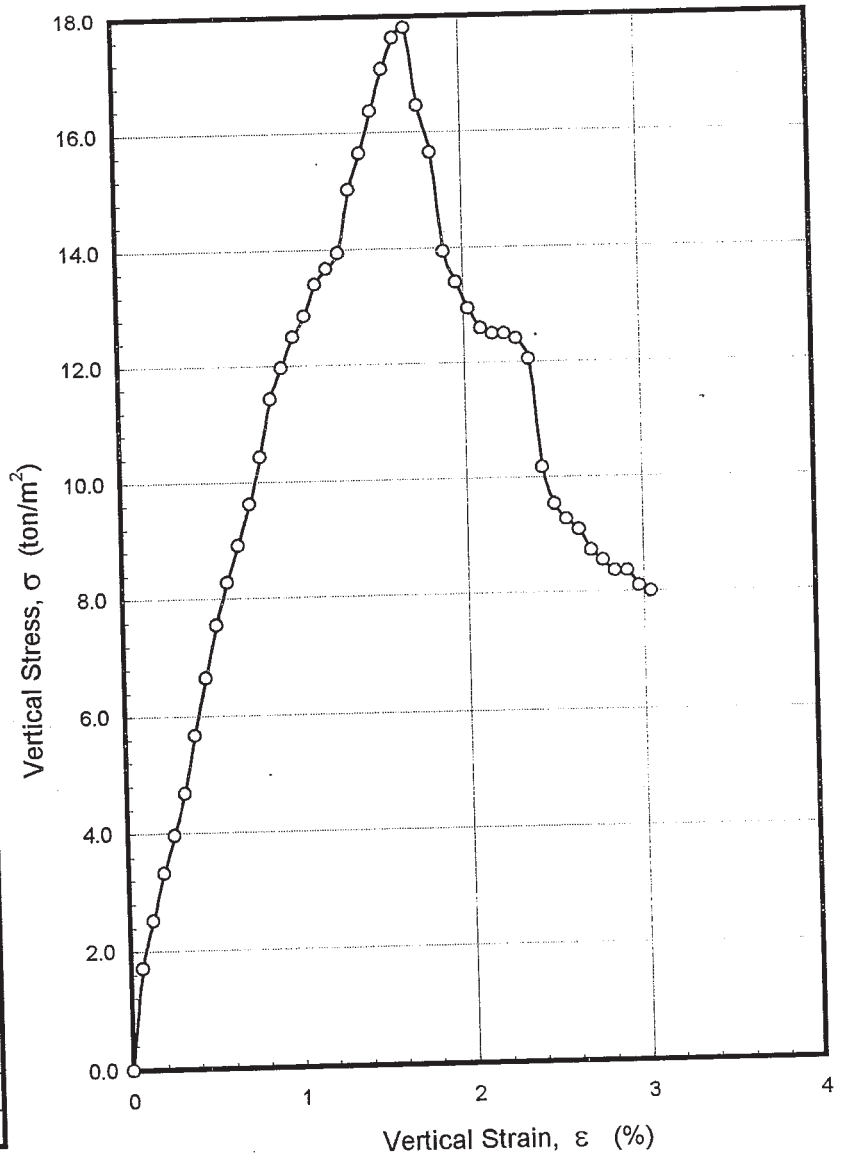
Borehole No: WT-4
 Sample No: DB-2 B
 Depth (m.): 18.40 - 18.80

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 2.51 | 9.53 |
| 0.07 | 1.71 | 2.57 | 9.26 |
| 0.14 | 2.52 | 2.64 | 9.08 |
| 0.20 | 3.33 | 2.71 | 8.72 |
| 0.27 | 3.95 | 2.78 | 8.54 |
| 0.34 | 4.67 | 2.84 | 8.36 |
| 0.41 | 5.66 | 2.91 | 8.36 |
| 0.47 | 6.65 | 2.98 | 8.09 |
| 0.54 | 7.55 | 3.05 | 8.00 |
| 0.61 | 8.27 | | |
| 0.68 | 8.90 | | |
| 0.74 | 9.62 | | |
| 0.81 | 10.43 | | |
| 0.88 | 11.41 | | |
| 0.95 | 11.95 | | |
| 1.02 | 12.49 | | |
| 1.08 | 12.85 | | |
| 1.15 | 13.39 | | |
| 1.22 | 13.66 | | |
| 1.29 | 13.93 | | |
| 1.35 | 15.01 | | |
| 1.42 | 15.64 | | |
| 1.49 | 16.36 | | |
| 1.56 | 17.08 | | |
| 1.62 | 17.62 | | |
| 1.69 | 17.80 | | |
| 1.76 | 16.45 | | |
| 1.83 | 15.64 | | |
| 1.90 | 13.93 | | |
| 1.96 | 13.39 | | |
| 2.03 | 12.94 | | |
| 2.10 | 12.58 | | |
| 2.17 | 12.49 | | |
| 2.23 | 12.49 | | |
| 2.30 | 12.40 | | |
| 2.37 | 12.04 | | |
| 2.44 | 10.16 | | |



Failure Mode

| Test Summary | | |
|--|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w_n | 12.6 | % |
| Total Unit Weight, γ_t | 2.23 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 17.8 | ton/m ² |
| Undrained Shear Strength, c_u | 8.9 | ton/m ² |
| Strain at Failure, ϵ_f | 1.7 | % |
| Modulus at 50% Stress Level, E_{50} | 1,314 | ton/m ² |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

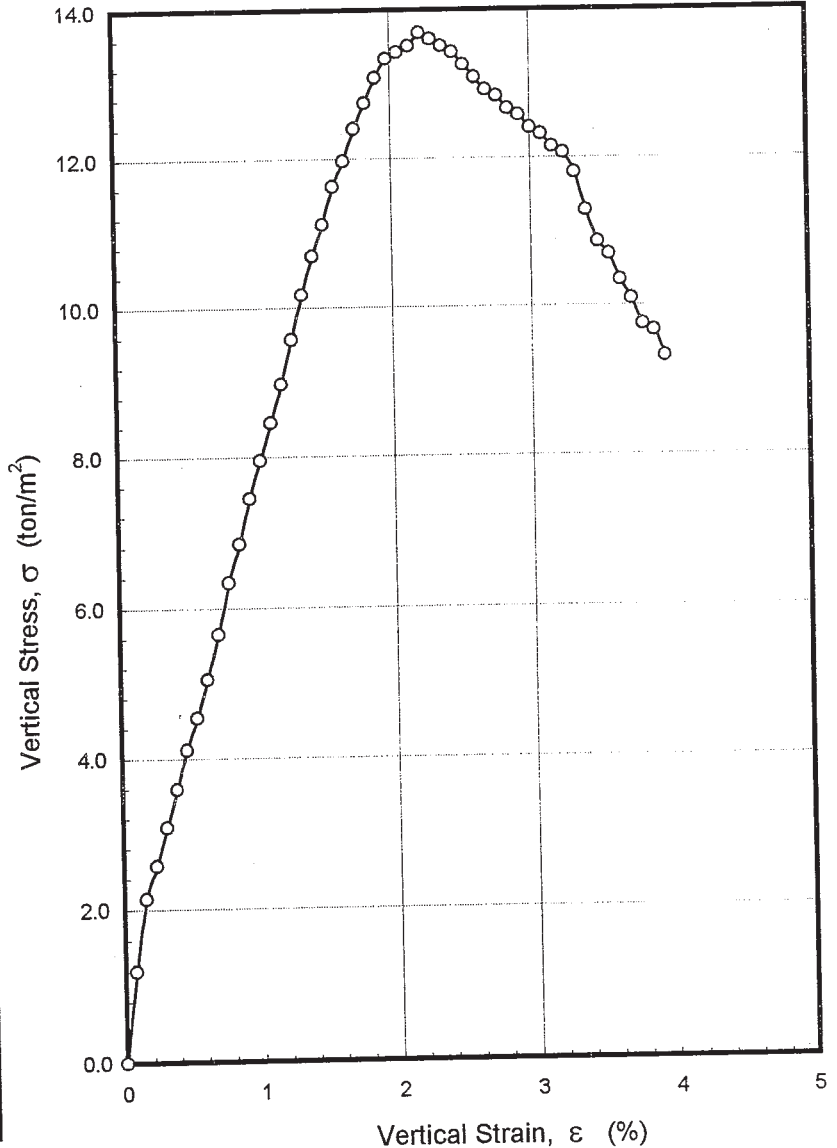
Borehole No: WT-4
 Sample No: DB-3
 Depth (m.): 29.20 - 29.50

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 2.93 | 12.57 |
| 0.08 | 1.20 | 3.01 | 12.40 |
| 0.16 | 2.14 | 3.09 | 12.31 |
| 0.24 | 2.57 | 3.16 | 12.14 |
| 0.32 | 3.08 | 3.24 | 12.06 |
| 0.40 | 3.59 | 3.32 | 11.80 |
| 0.47 | 4.10 | 3.40 | 11.29 |
| 0.55 | 4.53 | 3.48 | 10.86 |
| 0.63 | 5.05 | 3.56 | 10.69 |
| 0.71 | 5.64 | 3.64 | 10.35 |
| 0.79 | 6.33 | 3.72 | 10.09 |
| 0.87 | 6.84 | 3.80 | 9.75 |
| 0.95 | 7.44 | 3.88 | 9.66 |
| 1.03 | 7.95 | 3.96 | 9.32 |
| 1.11 | 8.47 | | |
| 1.19 | 8.98 | | |
| 1.27 | 9.58 | | |
| 1.34 | 10.18 | | |
| 1.42 | 10.69 | | |
| 1.50 | 11.12 | | |
| 1.58 | 11.63 | | |
| 1.66 | 11.97 | | |
| 1.74 | 12.40 | | |
| 1.82 | 12.74 | | |
| 1.90 | 13.08 | | |
| 1.98 | 13.34 | | |
| 2.06 | 13.43 | | |
| 2.14 | 13.51 | | |
| 2.22 | 13.68 | | |
| 2.29 | 13.60 | | |
| 2.37 | 13.51 | | |
| 2.45 | 13.43 | | |
| 2.53 | 13.25 | | |
| 2.61 | 13.08 | | |
| 2.69 | 12.91 | | |
| 2.77 | 12.83 | | |
| 2.85 | 12.66 | | |



Failure Mode

| Test Summary | | |
|--|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w_n | 14.7 | % |
| Total Unit Weight, γ_t | 2.18 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 13.7 | ton/m ² |
| Undrained Shear Strength, c_u | 6.8 | ton/m ² |
| Strain at Failure, ϵ_f | 2.2 | % |
| Modulus at 50% Stress Level, E_{50} | 786 | ton/m ² |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

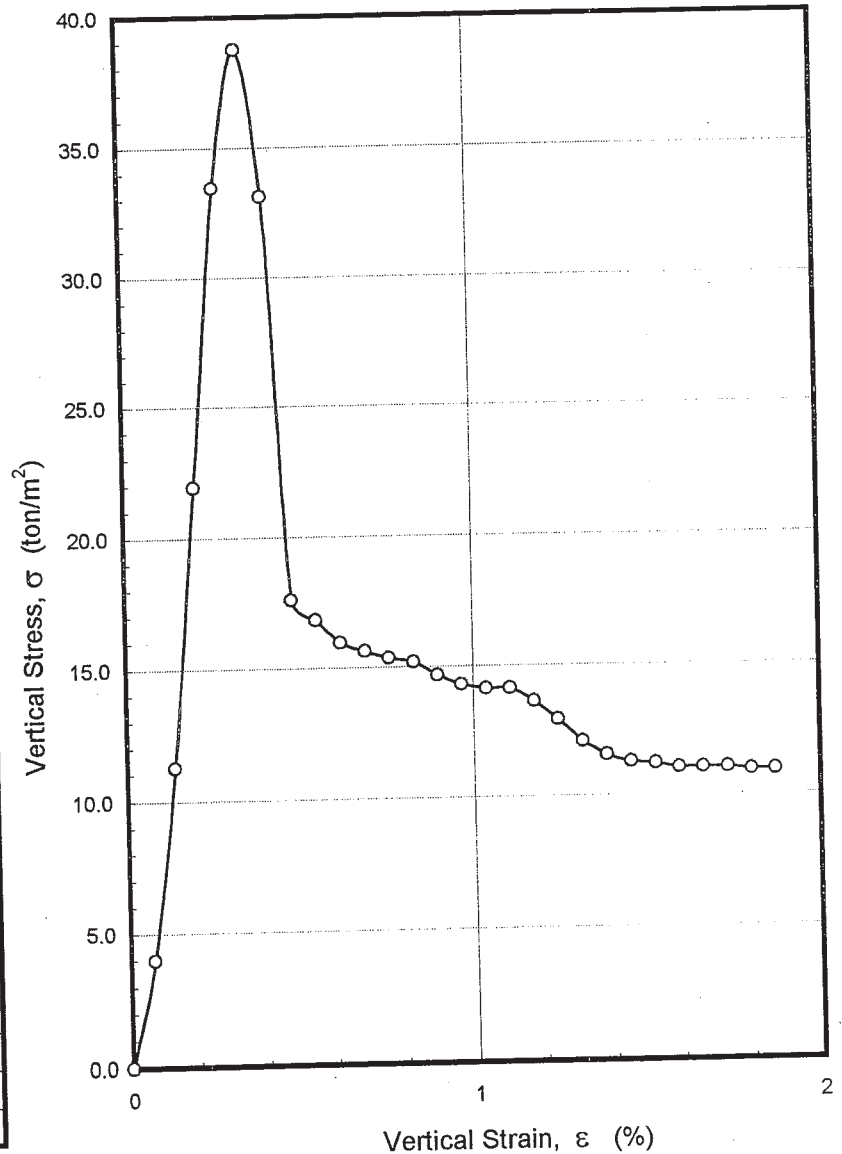
Borehole No: WT-4
 Sample No: DB-4 A
 Depth (m.): 32.50 - 32.95

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | | |
| 0.07 | 3.99 | | |
| 0.14 | 11.26 | | |
| 0.21 | 21.92 | | |
| 0.28 | 33.44 | | |
| 0.35 | 38.73 | | |
| 0.42 | 33.10 | | |
| 0.48 | 17.59 | | |
| 0.55 | 16.81 | | |
| 0.62 | 15.94 | | |
| 0.69 | 15.60 | | |
| 0.76 | 15.34 | | |
| 0.83 | 15.16 | | |
| 0.90 | 14.64 | | |
| 0.97 | 14.30 | | |
| 1.04 | 14.12 | | |
| 1.11 | 14.12 | | |
| 1.18 | 13.60 | | |
| 1.25 | 12.91 | | |
| 1.31 | 12.04 | | |
| 1.38 | 11.52 | | |
| 1.45 | 11.26 | | |
| 1.52 | 11.18 | | |
| 1.59 | 11.00 | | |
| 1.66 | 11.00 | | |
| 1.73 | 11.00 | | |
| 1.80 | 10.92 | | |
| 1.87 | 10.92 | | |



Failure Mode

| Test Summary | | | |
|---|------------|--------------------|--|
| Soil Description: | Sandy CLAY | | |
| Water Content, w _n | 11.6 | % | |
| Total Unit Weight, γ _t | 2.22 | ton/m ³ | |
| Unconfined Compressive Strength, q _u | 38.7 | ton/m ² | |
| Undrained Shear Strength, c _u | 19.4 | ton/m ² | |
| Strain at Failure, ε _f | 0.3 | % | |
| Modulus at 50% Stress Level, E ₅₀ | 8,138 | ton/m ² | |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

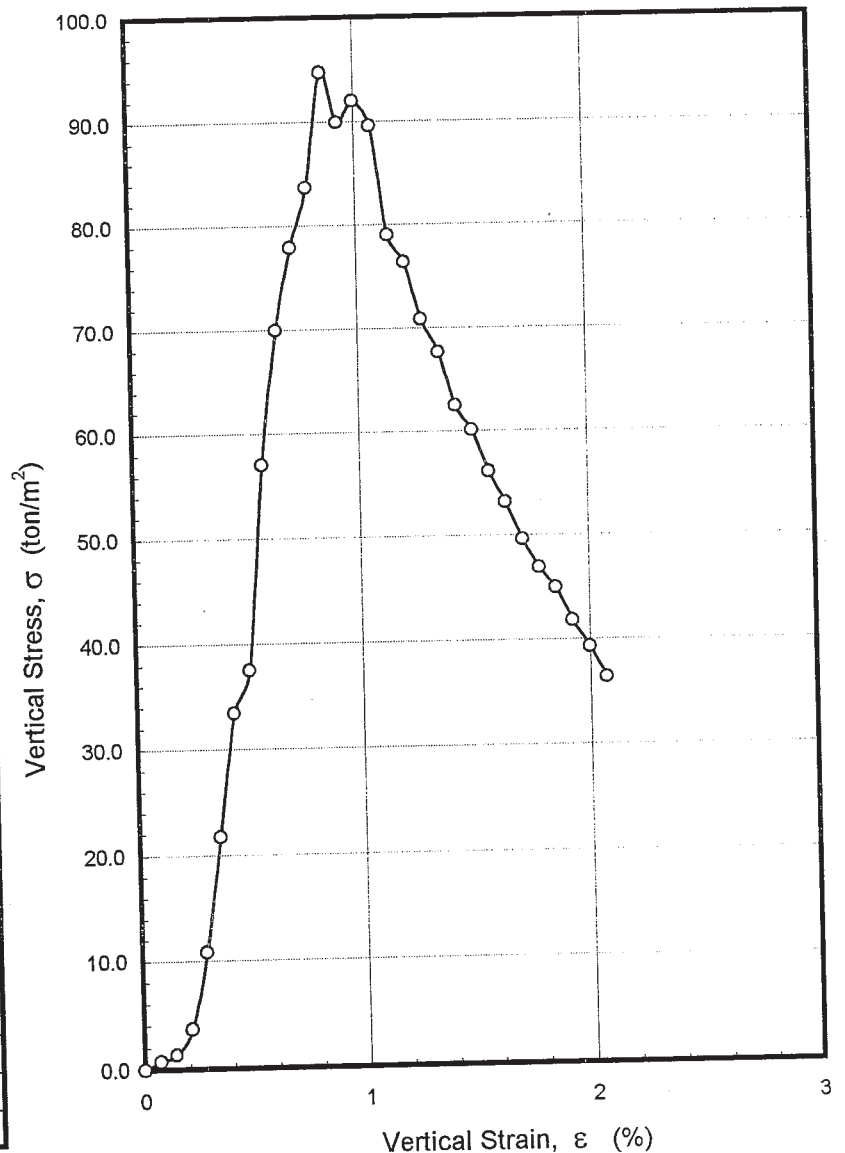
Borehole No: WT-4
 Sample No: DB-5
 Depth (m.): 36.75 - 37.00

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | | |
| 0.07 | 0.75 | | |
| 0.14 | 1.33 | | |
| 0.21 | 3.67 | | |
| 0.29 | 10.83 | | |
| 0.36 | 21.66 | | |
| 0.43 | 33.41 | | |
| 0.50 | 37.49 | | |
| 0.57 | 57.07 | | |
| 0.64 | 69.90 | | |
| 0.71 | 77.90 | | |
| 0.79 | 83.64 | | |
| 0.86 | 94.72 | | |
| 0.93 | 89.89 | | |
| 1.00 | 91.97 | | |
| 1.07 | 89.56 | | |
| 1.14 | 78.98 | | |
| 1.21 | 76.40 | | |
| 1.29 | 70.81 | | |
| 1.36 | 67.65 | | |
| 1.43 | 62.48 | | |
| 1.50 | 60.07 | | |
| 1.57 | 56.15 | | |
| 1.64 | 53.15 | | |
| 1.71 | 49.57 | | |
| 1.79 | 46.82 | | |
| 1.86 | 44.90 | | |
| 1.93 | 41.74 | | |
| 2.00 | 39.24 | | |
| 2.07 | 36.32 | | |



Failure Mode

| Test Summary | | | |
|---|------------|--------------------|--|
| Soil Description: | Sandy CLAY | | |
| Water Content, w _n | 14.8 | % | |
| Total Unit Weight, γ _t | 2.13 | ton/m ³ | |
| Unconfined Compressive Strength, q _u | 94.7 | ton/m ² | |
| Undrained Shear Strength, c _u | 47.4 | ton/m ² | |
| Strain at Failure, ε _f | 0.9 | % | |
| Modulus at 50% Stress Level, E ₅₀ | 7,498 | ton/m ² | |





UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

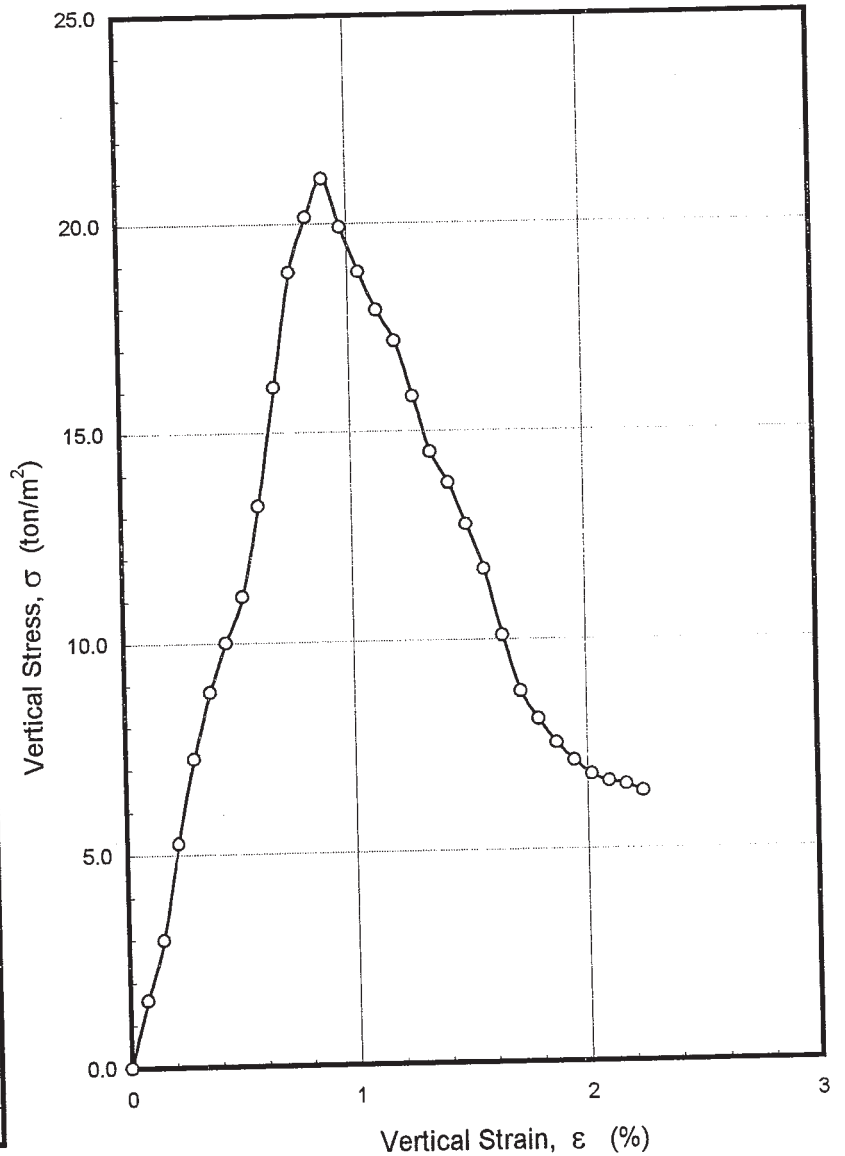
Borehole No: WT-4
 Sample No: DB-6 A
 Depth (m.): 54.60 - 55.00

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | | |
| 0.07 | 1.58 | | |
| 0.15 | 3.00 | | |
| 0.22 | 5.25 | | |
| 0.30 | 7.25 | | |
| 0.37 | 8.83 | | |
| 0.45 | 10.00 | | |
| 0.52 | 11.08 | | |
| 0.60 | 13.25 | | |
| 0.67 | 16.08 | | |
| 0.75 | 18.83 | | |
| 0.82 | 20.16 | | |
| 0.90 | 21.08 | | |
| 0.97 | 19.91 | | |
| 1.05 | 18.83 | | |
| 1.12 | 17.91 | | |
| 1.20 | 17.16 | | |
| 1.27 | 15.83 | | |
| 1.35 | 14.50 | | |
| 1.42 | 13.75 | | |
| 1.50 | 12.75 | | |
| 1.57 | 11.66 | | |
| 1.65 | 10.08 | | |
| 1.72 | 8.75 | | |
| 1.80 | 8.08 | | |
| 1.87 | 7.50 | | |
| 1.95 | 7.08 | | |
| 2.02 | 6.75 | | |
| 2.10 | 6.58 | | |
| 2.17 | 6.50 | | |
| 2.25 | 6.33 | | |



Failure Mode

| Test Summary | | | |
|--|------------|--------------------|--|
| Soil Description: | Sandy CLAY | | |
| Water Content, w_n | 11.1 | % | |
| Total Unit Weight, γ_t | 2.20 | ton/m ³ | |
| Unconfined Compressive Strength, q_u | 21.1 | ton/m ² | |
| Undrained Shear Strength, c_u | 10.5 | ton/m ² | |
| Strain at Failure, ϵ_f | 0.9 | % | |
| Modulus at 50% Stress Level, E_{50} | 2,224 | ton/m ² | |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

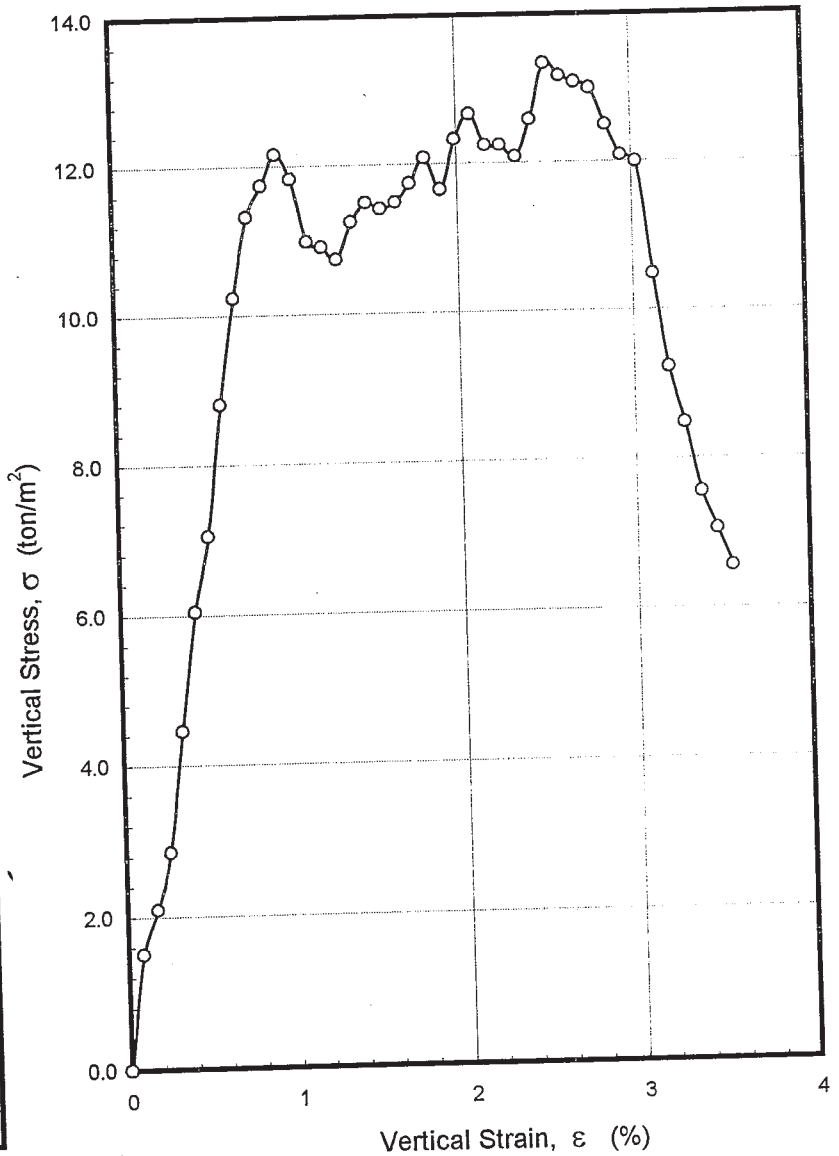
Borehole No: WT-4
 Sample No: DB-6 B
 Depth (m.): 54.60 - 55.00

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 3.21 | 9.22 |
| 0.09 | 1.51 | 3.29 | 8.47 |
| 0.17 | 2.10 | 3.38 | 7.55 |
| 0.26 | 2.85 | 3.47 | 7.04 |
| 0.35 | 4.44 | 3.55 | 6.54 |
| 0.43 | 6.04 | | |
| 0.52 | 7.04 | | |
| 0.61 | 8.80 | | |
| 0.69 | 10.23 | | |
| 0.78 | 11.32 | | |
| 0.87 | 11.74 | | |
| 0.95 | 12.16 | | |
| 1.04 | 11.82 | | |
| 1.13 | 10.98 | | |
| 1.21 | 10.90 | | |
| 1.30 | 10.73 | | |
| 1.39 | 11.24 | | |
| 1.47 | 11.49 | | |
| 1.56 | 11.40 | | |
| 1.65 | 11.49 | | |
| 1.73 | 11.74 | | |
| 1.82 | 12.07 | | |
| 1.91 | 11.66 | | |
| 1.99 | 12.33 | | |
| 2.08 | 12.66 | | |
| 2.17 | 12.24 | | |
| 2.25 | 12.24 | | |
| 2.34 | 12.07 | | |
| 2.43 | 12.58 | | |
| 2.51 | 13.33 | | |
| 2.60 | 13.16 | | |
| 2.69 | 13.08 | | |
| 2.77 | 13.00 | | |
| 2.86 | 12.49 | | |
| 2.95 | 12.07 | | |
| 3.03 | 11.99 | | |
| 3.12 | 10.48 | | |



Failure Mode

| Test Summary | | |
|--|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w_n | 10.8 | % |
| Total Unit Weight, γ_t | 1.79 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 13.3 | ton/m ² |
| Undrained Shear Strength, c_u | 6.7 | ton/m ² |
| Strain at Failure, ϵ_f | 2.5 | % |
| Modulus at 50% Stress Level, E_{50} | 1,393 | ton/m ² |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

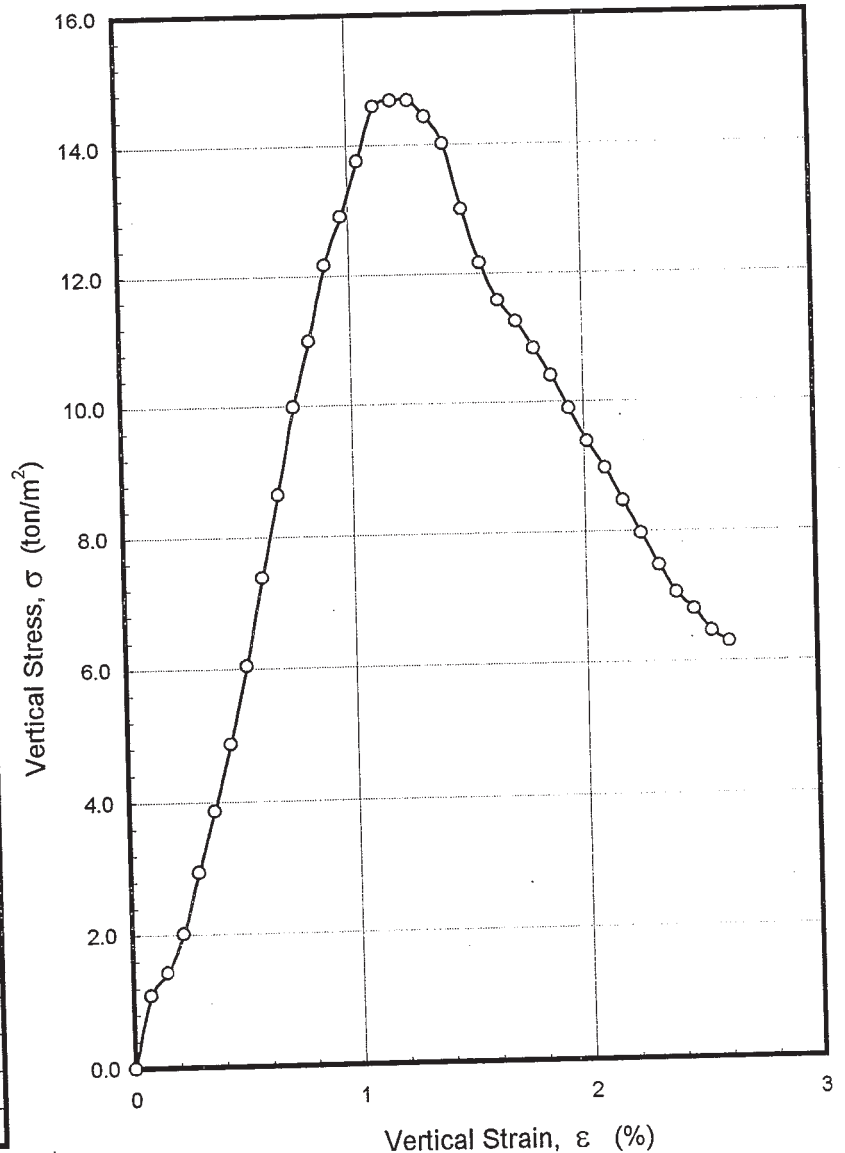
Borehole No: WT-4
 Sample No: DB-7 A
 Depth (m.): 57.10 - 57.45

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | | |
| 0.07 | 1.09 | | |
| 0.15 | 1.43 | | |
| 0.22 | 2.01 | | |
| 0.30 | 2.93 | | |
| 0.37 | 3.86 | | |
| 0.45 | 4.86 | | |
| 0.52 | 6.04 | | |
| 0.60 | 7.38 | | |
| 0.67 | 8.64 | | |
| 0.75 | 9.98 | | |
| 0.82 | 10.98 | | |
| 0.90 | 12.16 | | |
| 0.97 | 12.91 | | |
| 1.05 | 13.75 | | |
| 1.12 | 14.59 | | |
| 1.20 | 14.67 | | |
| 1.27 | 14.67 | | |
| 1.35 | 14.42 | | |
| 1.42 | 14.00 | | |
| 1.49 | 13.00 | | |
| 1.57 | 12.16 | | |
| 1.64 | 11.57 | | |
| 1.72 | 11.24 | | |
| 1.79 | 10.82 | | |
| 1.87 | 10.40 | | |
| 1.94 | 9.89 | | |
| 2.02 | 9.39 | | |
| 2.09 | 8.97 | | |
| 2.17 | 8.47 | | |
| 2.24 | 7.97 | | |
| 2.32 | 7.46 | | |
| 2.39 | 7.04 | | |
| 2.47 | 6.79 | | |
| 2.54 | 6.46 | | |
| 2.62 | 6.29 | | |



Failure Mode

| Test Summary | | |
|---|-------------|--------------------|
| Soil Description: | Calvey SAND | |
| Water Content, w _n | 15.8 | % |
| Total Unit Weight, γ _t | 2.15 | ton/m ³ |
| Unconfined Compressive Strength, q _u | 14.7 | ton/m ² |
| Undrained Shear Strength, c _u | 7.3 | ton/m ² |
| Strain at Failure, ε _f | 1.3 | % |
| Modulus at 50% Stress Level, E ₅₀ | 1,154 | ton/m ² |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

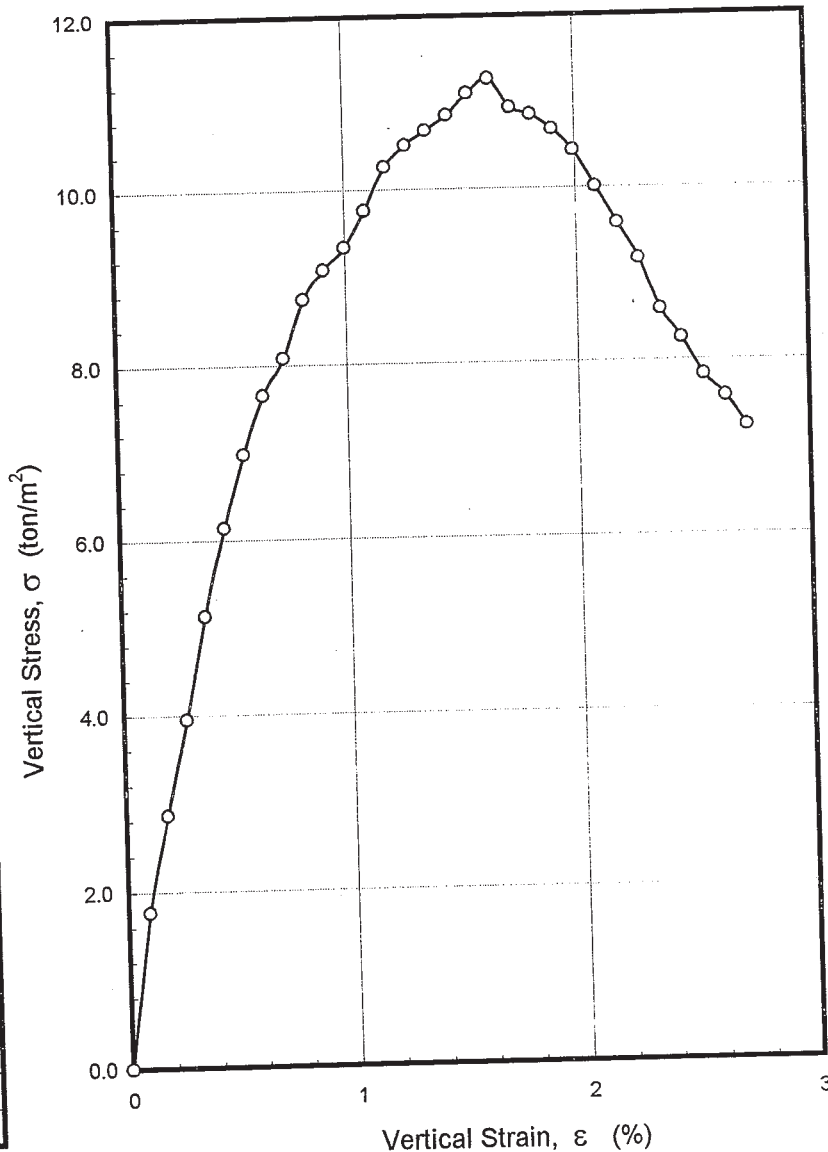
Borehole No: WT-4
 Sample No: DB-7 B
 Depth (m.): 57.10 - 57.45

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | | |
| 0.09 | 1.77 | | |
| 0.18 | 2.86 | | |
| 0.27 | 3.95 | | |
| 0.36 | 5.13 | | |
| 0.45 | 6.14 | | |
| 0.54 | 6.98 | | |
| 0.64 | 7.66 | | |
| 0.73 | 8.08 | | |
| 0.82 | 8.75 | | |
| 0.91 | 9.09 | | |
| 1.00 | 9.34 | | |
| 1.09 | 9.76 | | |
| 1.18 | 10.26 | | |
| 1.27 | 10.52 | | |
| 1.36 | 10.68 | | |
| 1.45 | 10.85 | | |
| 1.54 | 11.10 | | |
| 1.63 | 11.27 | | |
| 1.72 | 10.94 | | |
| 1.81 | 10.85 | | |
| 1.91 | 10.68 | | |
| 2.00 | 10.43 | | |
| 2.09 | 10.01 | | |
| 2.18 | 9.59 | | |
| 2.27 | 9.17 | | |
| 2.36 | 8.58 | | |
| 2.45 | 8.24 | | |
| 2.54 | 7.82 | | |
| 2.63 | 7.57 | | |
| 2.72 | 7.23 | | |



Failure Mode

| Soil Description: | | Calvee SAND | |
|--|-------|--------------------|--|
| Water Content, w_n | 15.4 | % | |
| Total Unit Weight, γ_t | 2.17 | ton/m ³ | |
| Unconfined Compressive Strength, q_u | 11.3 | ton/m ² | |
| Undrained Shear Strength, c_u | 5.6 | ton/m ² | |
| Strain at Failure, ϵ_f | 1.6 | % | |
| Modulus at 50% Stress Level, E_{50} | 1,414 | ton/m ² | |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

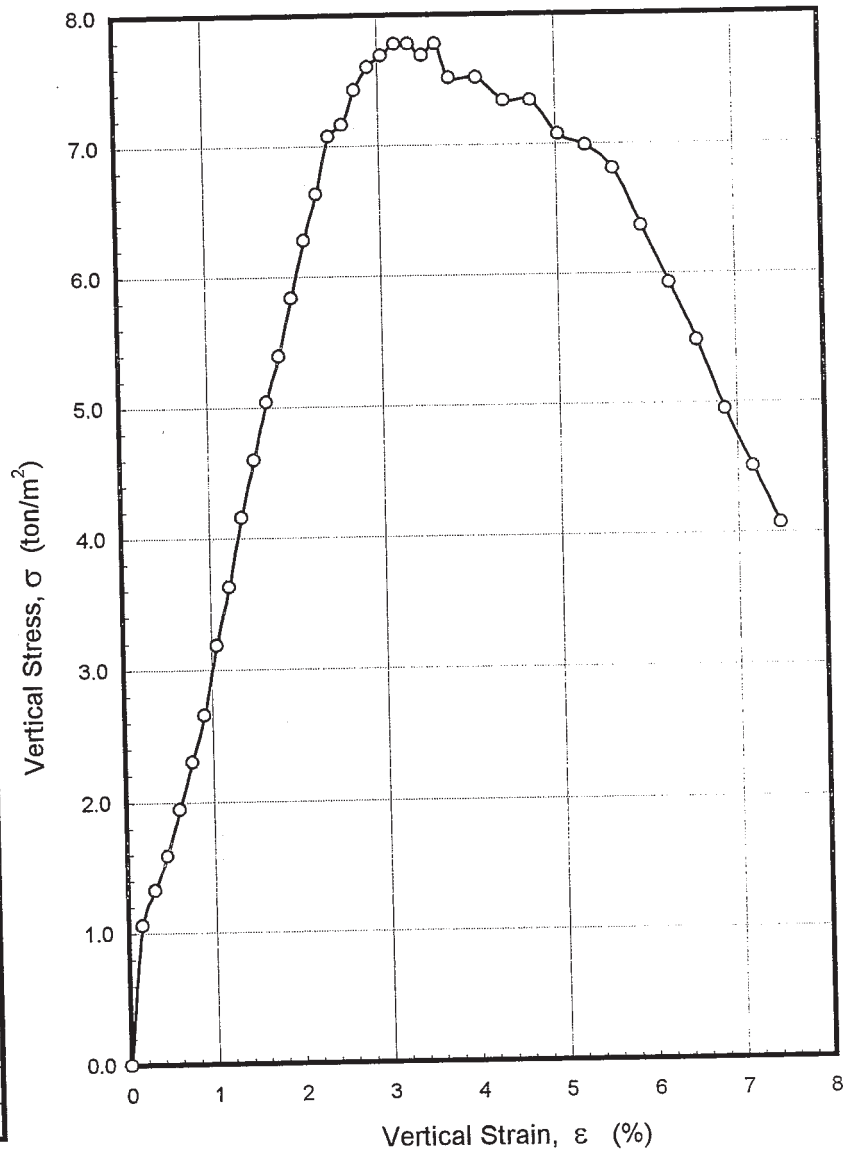
Borehole No: WT-6
 Sample No: DB-1
 Depth (m.): 7.20 - 7.50

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 7.48 | 4.07 |
| 0.15 | 1.06 | | |
| 0.31 | 1.33 | | |
| 0.46 | 1.59 | | |
| 0.61 | 1.94 | | |
| 0.76 | 2.30 | | |
| 0.92 | 2.65 | | |
| 1.07 | 3.18 | | |
| 1.22 | 3.62 | | |
| 1.37 | 4.15 | | |
| 1.53 | 4.60 | | |
| 1.68 | 5.04 | | |
| 1.83 | 5.39 | | |
| 1.98 | 5.83 | | |
| 2.14 | 6.28 | | |
| 2.29 | 6.63 | | |
| 2.44 | 7.07 | | |
| 2.60 | 7.16 | | |
| 2.75 | 7.42 | | |
| 2.90 | 7.60 | | |
| 3.05 | 7.69 | | |
| 3.21 | 7.78 | | |
| 3.36 | 7.78 | | |
| 3.51 | 7.69 | | |
| 3.66 | 7.78 | | |
| 3.82 | 7.51 | | |
| 4.12 | 7.51 | | |
| 4.43 | 7.34 | | |
| 4.73 | 7.34 | | |
| 5.04 | 7.07 | | |
| 5.34 | 6.98 | | |
| 5.65 | 6.81 | | |
| 5.95 | 6.36 | | |
| 6.26 | 5.92 | | |
| 6.56 | 5.48 | | |
| 6.87 | 4.95 | | |
| 7.18 | 4.51 | | |



Failure Mode

| Test Summary | | | |
|---|-------------|--------------------|--|
| Soil Description: | Clayey SAND | | |
| Water Content, w _n | 9.7 | % | |
| Total Unit Weight, γ _t | 2.27 | ton/m ³ | |
| Unconfined Compressive Strength, q _u | 7.8 | ton/m ² | |
| Undrained Shear Strength, c _u | 3.9 | ton/m ² | |
| Strain at Failure, ε _f | 3.7 | % | |
| Modulus at 50% Stress Level, E ₅₀ | 297 | ton/m ² | |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

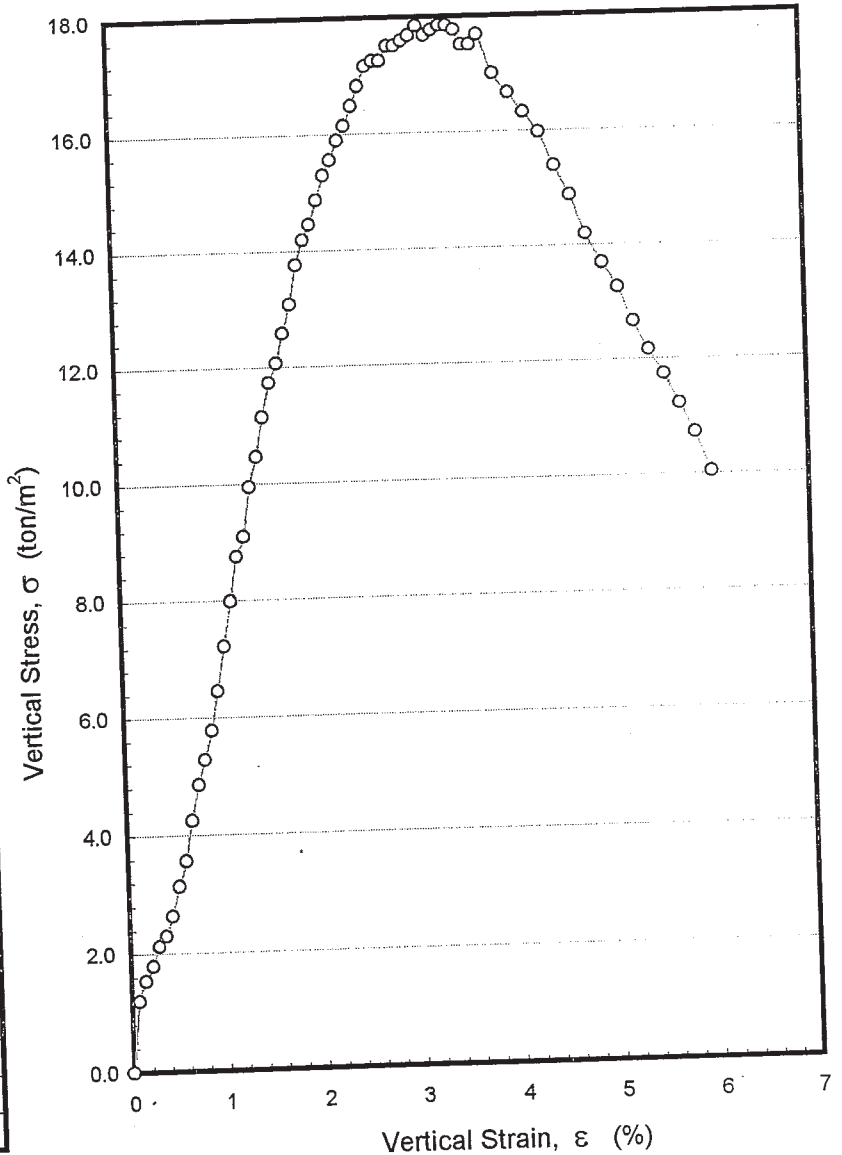
Borehole No: WT-6
 Sample No: DB-2
 Depth (m.): 16.20 - 16.60

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 2.78 | 17.25 |
| 0.08 | 1.19 | 2.85 | 17.50 |
| 0.15 | 1.53 | 2.93 | 17.50 |
| 0.23 | 1.78 | 3.01 | 17.59 |
| 0.30 | 2.12 | 3.08 | 17.67 |
| 0.38 | 2.29 | 3.16 | 17.84 |
| 0.45 | 2.63 | 3.23 | 17.67 |
| 0.53 | 3.14 | 3.31 | 17.75 |
| 0.60 | 3.57 | 3.38 | 17.84 |
| 0.68 | 4.25 | 3.46 | 17.84 |
| 0.75 | 4.84 | 3.53 | 17.75 |
| 0.83 | 5.27 | 3.61 | 17.50 |
| 0.90 | 5.78 | 3.68 | 17.50 |
| 0.98 | 6.46 | 3.76 | 17.67 |
| 1.05 | 7.22 | 3.91 | 16.99 |
| 1.13 | 7.99 | 4.06 | 16.65 |
| 1.20 | 8.75 | 4.21 | 16.31 |
| 1.28 | 9.09 | 4.36 | 15.97 |
| 1.35 | 9.94 | 4.51 | 15.38 |
| 1.43 | 10.45 | 4.66 | 14.87 |
| 1.50 | 11.13 | 4.81 | 14.19 |
| 1.58 | 11.72 | 4.96 | 13.68 |
| 1.65 | 12.06 | 5.11 | 13.25 |
| 1.73 | 12.57 | 5.26 | 12.66 |
| 1.80 | 13.08 | 5.41 | 12.15 |
| 1.88 | 13.76 | 5.56 | 11.72 |
| 1.95 | 14.19 | 5.71 | 11.21 |
| 2.03 | 14.44 | 5.86 | 10.70 |
| 2.10 | 14.87 | 6.01 | 10.02 |
| 2.18 | 15.29 | | |
| 2.25 | 15.55 | | |
| 2.33 | 15.89 | | |
| 2.40 | 16.14 | | |
| 2.48 | 16.48 | | |
| 2.55 | 16.82 | | |
| 2.63 | 17.16 | | |
| 2.70 | 17.25 | | |



Failure Mode

| Test Summary | | |
|---|-------------|--------------------|
| Soil Description: | Clayey SAND | |
| Water Content, w _n | 11.0 | % |
| Total Unit Weight, γ _t | 2.29 | ton/m ³ |
| Unconfined Compressive Strength, q _u | 17.8 | ton/m ² |
| Undrained Shear Strength, c _u | 8.9 | ton/m ² |
| Strain at Failure, ε _f | 3.5 | % |
| Modulus at 50% Stress Level, E ₅₀ | 728 | ton/m ² |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

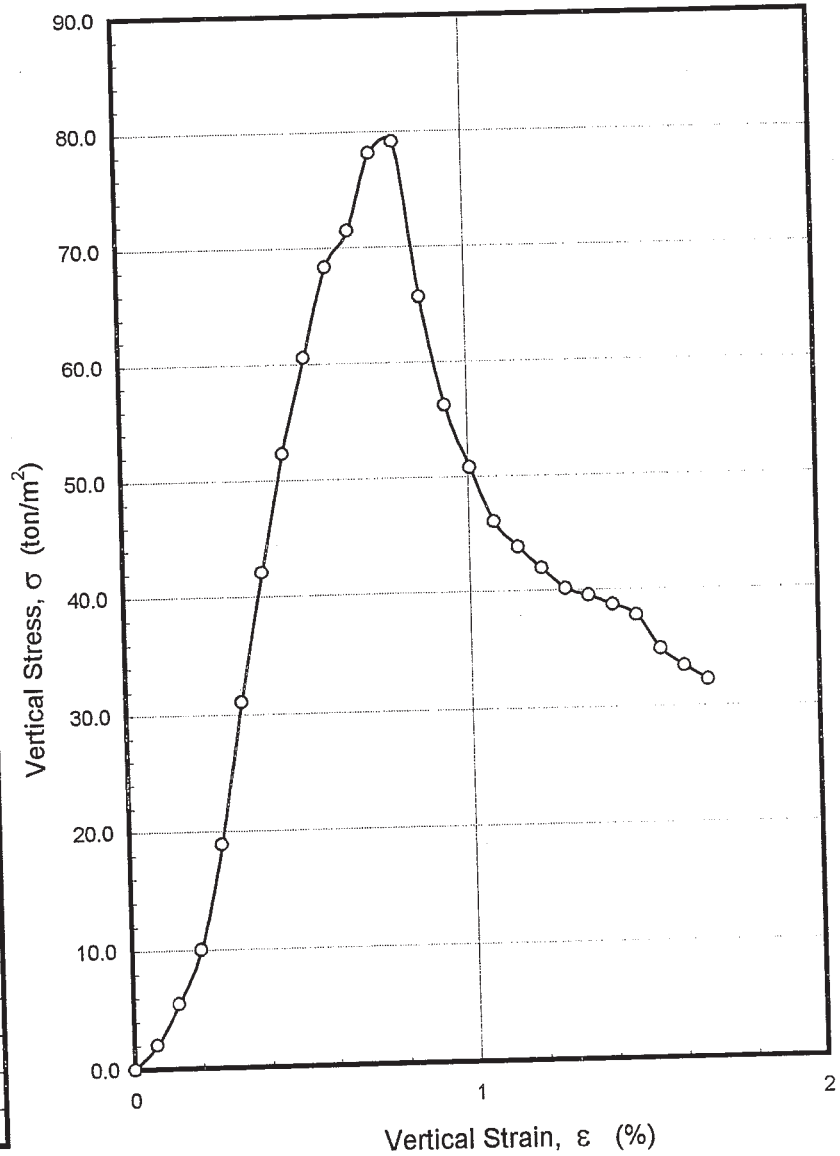
Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

Borehole No: WT-6
 Sample No: DB-3
 Depth (m.): 42.60 - 42.90

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | | |
| 0.07 | 2.01 | | |
| 0.13 | 5.49 | | |
| 0.20 | 10.03 | | |
| 0.27 | 18.84 | | |
| 0.34 | 31.05 | | |
| 0.40 | 42.04 | | |
| 0.47 | 52.24 | | |
| 0.54 | 60.53 | | |
| 0.60 | 68.29 | | |
| 0.67 | 71.43 | | |
| 0.74 | 78.15 | | |
| 0.81 | 79.11 | | |
| 0.87 | 65.59 | | |
| 0.94 | 56.17 | | |
| 1.01 | 50.76 | | |
| 1.07 | 46.05 | | |
| 1.14 | 43.78 | | |
| 1.21 | 41.95 | | |
| 1.28 | 40.12 | | |
| 1.34 | 39.51 | | |
| 1.41 | 38.72 | | |
| 1.48 | 37.76 | | |
| 1.54 | 34.89 | | |
| 1.61 | 33.40 | | |
| 1.68 | 32.18 | | |

Failure Mode

| Test Summary | | |
|--|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w_n | 6.0 | % |
| Total Unit Weight, γ_t | 1.70 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 79.1 | ton/m ² |
| Undrained Shear Strength, c_u | 39.6 | ton/m ² |
| Strain at Failure, ϵ_f | 0.8 | % |
| Modulus at 50% Stress Level, E_{50} | 9,253 | ton/m ² |





SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

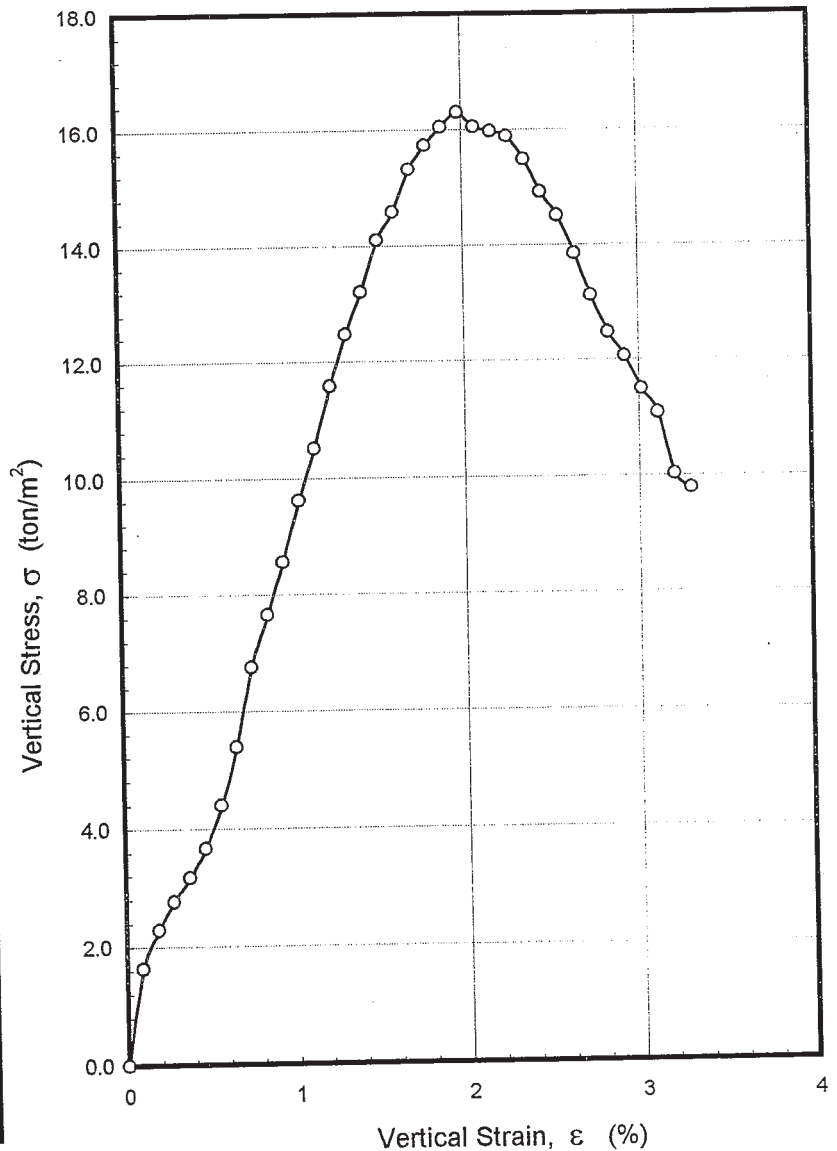
Borehole No: WT-6
 Sample No: DB-4
 Depth (m.): 56.50 - 56.80

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | | |
| 0.09 | 1.63 | | |
| 0.19 | 2.28 | | |
| 0.28 | 2.77 | | |
| 0.38 | 3.18 | | |
| 0.47 | 3.67 | | |
| 0.57 | 4.40 | | |
| 0.66 | 5.38 | | |
| 0.75 | 6.76 | | |
| 0.85 | 7.66 | | |
| 0.94 | 8.55 | | |
| 1.04 | 9.61 | | |
| 1.13 | 10.51 | | |
| 1.23 | 11.57 | | |
| 1.32 | 12.46 | | |
| 1.42 | 13.20 | | |
| 1.51 | 14.09 | | |
| 1.60 | 14.58 | | |
| 1.70 | 15.31 | | |
| 1.79 | 15.72 | | |
| 1.89 | 16.05 | | |
| 1.98 | 16.29 | | |
| 2.08 | 16.05 | | |
| 2.17 | 15.97 | | |
| 2.26 | 15.88 | | |
| 2.36 | 15.48 | | |
| 2.45 | 14.91 | | |
| 2.55 | 14.50 | | |
| 2.64 | 13.85 | | |
| 2.74 | 13.11 | | |
| 2.83 | 12.46 | | |
| 2.92 | 12.06 | | |
| 3.02 | 11.49 | | |
| 3.11 | 11.08 | | |
| 3.21 | 10.02 | | |
| 3.30 | 9.77 | | |



Failure Mode

| Test Summary | | |
|--|------------|--------------------|
| Soil Description: | Sandy CLAY | |
| Water Content, w_n | 27.4 | % |
| Total Unit Weight, γ_t | 1.96 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 16.3 | ton/m ² |
| Undrained Shear Strength, c_u | 8.1 | ton/m ² |
| Strain at Failure, ϵ_f | 2.0 | % |
| Modulus at 50% Stress Level, E_{50} | 902 | ton/m ² |





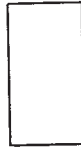
SIAM TONE CO., LTD.

UNCONFINED COMPRESSION TEST

Project: Land Subsidence Siem Reab
 Location: Cambodia
 Tested by: THS Date: May-97

Borehole No: WT-7
 Sample No: DB-1 A
 Depth (m.): 13.60 - 14.00

| Vertical Strain (%) | Vertical Stress (ton/m ²) | Vertical Strain (%) | Vertical Stress (ton/m ²) |
|---------------------|---------------------------------------|---------------------|---------------------------------------|
| 0.00 | 0.00 | 2.64 | 17.16 |
| 0.07 | 1.02 | 2.72 | 17.42 |
| 0.14 | 1.27 | 2.79 | 17.59 |
| 0.21 | 1.44 | 2.86 | 17.67 |
| 0.29 | 1.70 | 2.93 | 17.84 |
| 0.36 | 1.95 | 3.00 | 17.84 |
| 0.43 | 2.21 | 3.07 | 18.01 |
| 0.50 | 2.46 | 3.15 | 18.09 |
| 0.57 | 2.72 | 3.22 | 18.09 |
| 0.64 | 3.14 | 3.29 | 18.09 |
| 0.71 | 3.48 | 3.36 | 18.18 |
| 0.79 | 3.99 | 3.43 | 18.18 |
| 0.86 | 4.42 | 3.50 | 18.18 |
| 0.93 | 4.84 | 3.57 | 18.09 |
| 1.00 | 5.44 | 3.72 | 17.75 |
| 1.07 | 6.03 | 3.86 | 17.84 |
| 1.14 | 6.54 | 4.00 | 17.75 |
| 1.22 | 7.31 | 4.15 | 17.75 |
| 1.29 | 7.90 | 4.29 | 17.75 |
| 1.36 | 8.58 | 4.43 | 17.84 |
| 1.43 | 9.17 | 4.57 | 17.59 |
| 1.50 | 9.77 | 4.72 | 17.50 |
| 1.57 | 10.45 | 4.86 | 17.42 |
| 1.64 | 11.13 | 5.00 | 17.16 |
| 1.72 | 11.81 | 5.15 | 17.08 |
| 1.79 | 12.32 | 5.29 | 16.99 |
| 1.86 | 13.00 | 5.43 | 16.74 |
| 1.93 | 13.51 | 5.58 | 15.55 |
| 2.00 | 13.93 | 5.72 | 14.87 |
| 2.07 | 14.61 | 5.86 | 14.53 |
| 2.14 | 15.04 | 6.00 | 14.19 |
| 2.22 | 15.46 | 6.15 | 13.93 |
| 2.29 | 15.89 | 6.29 | 13.68 |
| 2.36 | 16.14 | 6.43 | 13.34 |
| 2.43 | 16.65 | 6.58 | 13.17 |
| 2.50 | 16.57 | 6.72 | 12.74 |
| 2.57 | 16.91 | 6.86 | 12.40 |
| | | 7.01 | 12.06 |



Failure Mode

| Test Summary | | |
|--|-------------|--------------------|
| Soil Description: | Clayey SAND | |
| Water Content, w_n | 12.1 | % |
| Total Unit Weight, γ_t | 2.26 | ton/m ³ |
| Unconfined Compressive Strength, q_u | 18.2 | ton/m ² |
| Undrained Shear Strength, c_u | 9.1 | ton/m ² |
| Strain at Failure, ϵ_f | 3.5 | % |
| Modulus at 50% Stress Level, E_{50} | 632 | ton/m ² |

