Appendix D2

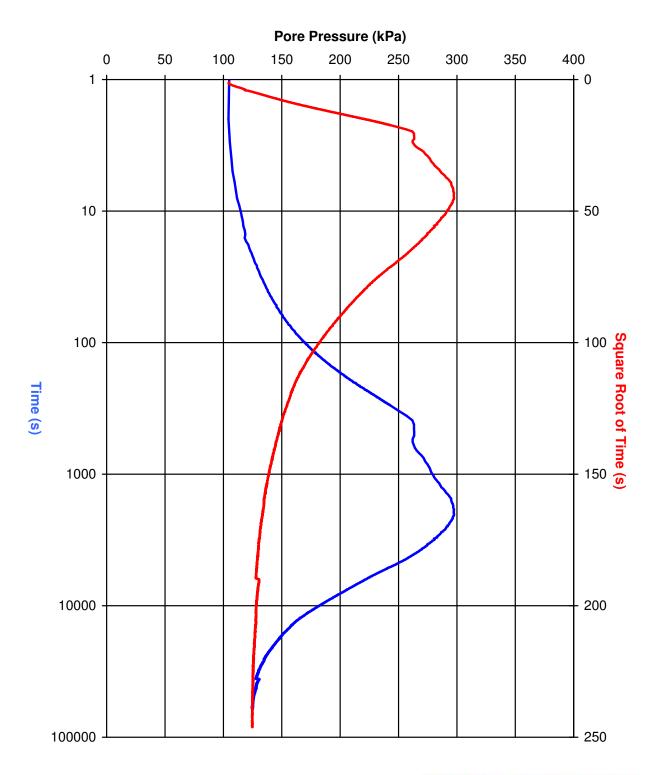
Geotechnical investigations:

RMS Factual Geotechnical Investigation Report

APPENDIX C PORE PRESSURE DISSIPATION TEST RESULTS

PORE PRESSURE DISSIPATION TEST RESULT

RMS Berry Bypass Berry, NSW CPT407 Depth: 2.84m



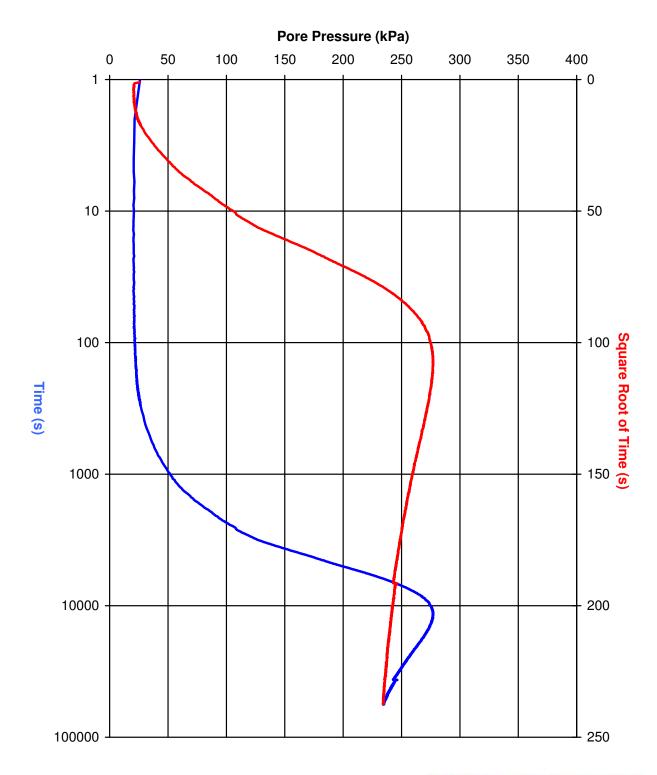
Tested By: Michael O'Rourke Test Duration: 16 Hours, 49 Minutes

Test Date: 24/03/2012 Job No: G12-03-05 Cone: C10CFIIP.f63



PORE PRESSURE DISSIPATION TEST RESULT

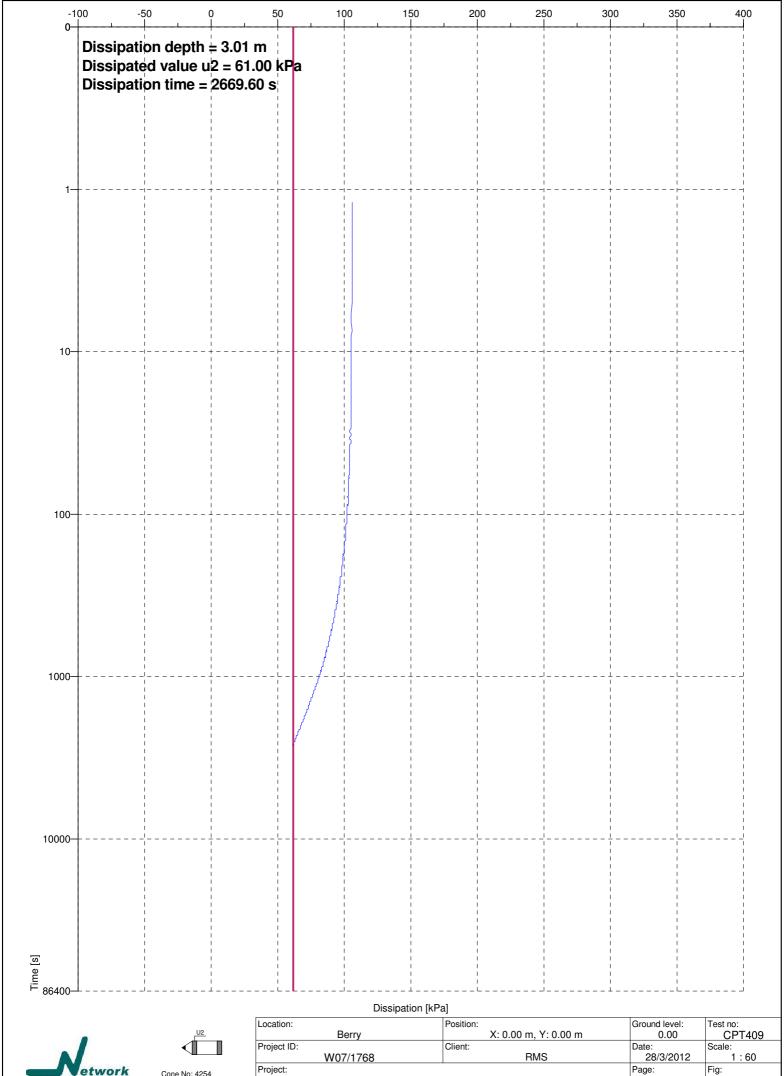
RMS Berry Bypass Berry, NSW CPT403a Depth: 6.68m



Tested By: Michael O'Rourke Test Duration: 15 Hours, 39 Minutes

Test Date: 23/03/2012 Job No: G12-03-05 Cone: C10CFIIP.f63



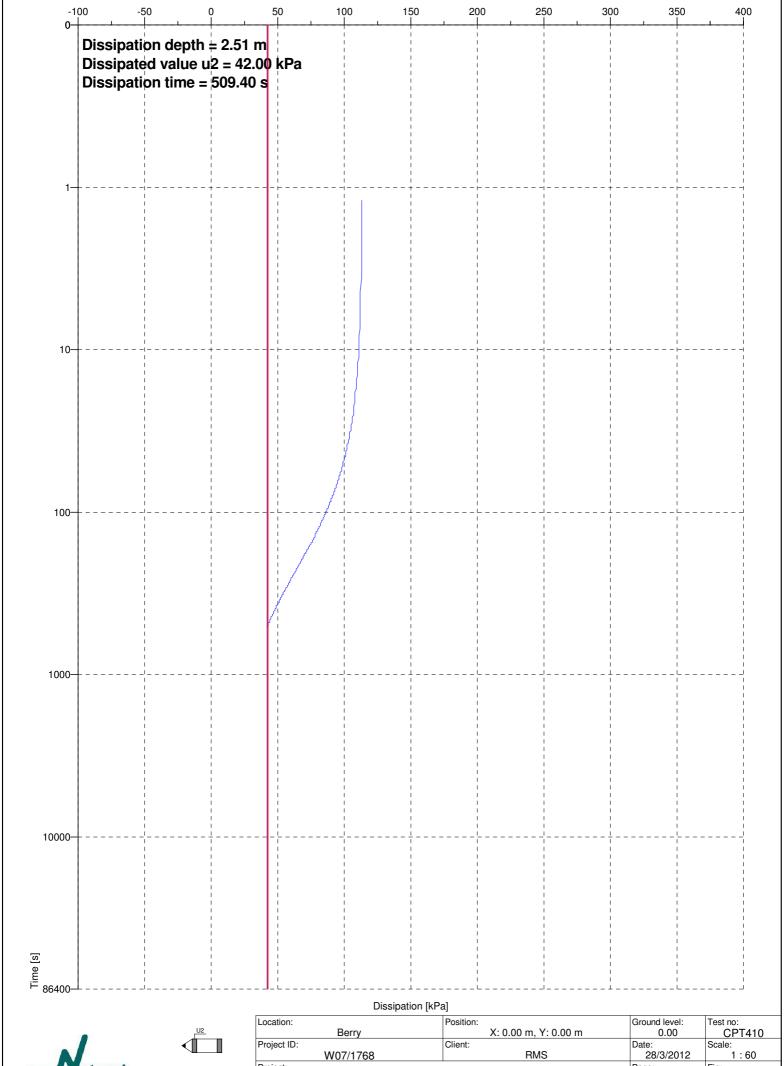






| √ | Project ID: | | Client: | Da | ate: |
|------------------------|-------------|---------|---------|----|---------|
| | W07/1 | 768 | RMS | | 28/3/20 |
| Cone No: 4254 | Project: | | | Pa | age: |
| Tip area [cm2]: 10 | _ | Berry E | Bypass | | 3/3 |
| Sleeve area [cm2]: 150 | | | | Fi | ile: |
| | | | | | |

CPT409.CPT







| Location: | Position: | Ground level: | lest no: | |
|-------------|----------------------|---------------|----------|--|
| Berry | X: 0.00 m, Y: 0.00 m | 0.00 | CPT410 | |
| Project ID: | Client: | Date: | Scale: | |
| W07/1768 | RMS | 28/3/2012 | 1:60 | |
| Project: | | Page: | Fig: | |
| Berry E | Bypass | 3/3 | _ | |
| | | File: | | |
| | | CPT410.CPT | | |

APPENDIX D LABORATORY TEST RESULTS (GEOTECHNICAL)

triaxial shear test: shear path & Mohr circle plot

Page 1 of 2

client : ROADS AND MARITIME SERVICES, SOUTHERN REGION
principal : ROADS AND MARITIME SERVICES, SOUTHERN REGION
project : BERRY BYPASS
location : PRINCES HIGHWAY
job no : INFOLCOV00959AA
date : 16 May 2012
report number: IOLT 5557
laboratory number: LCOV12S-00423

sample number: **B9** (2.00 to 2.35 m) Test Method: **AS1289.6.4.2 (Note 4)**

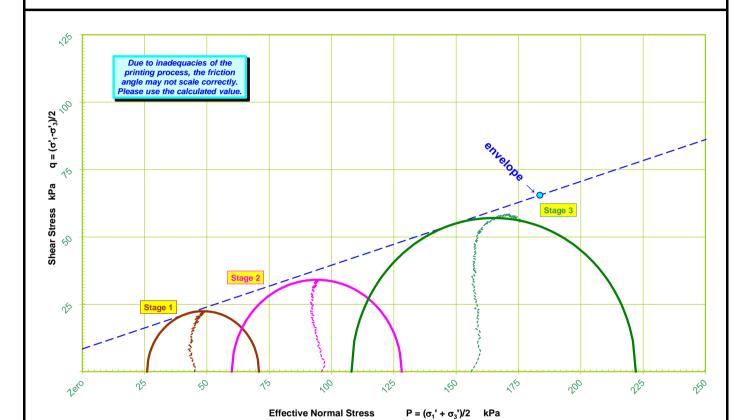
failure criteria: Maximum principal effective stress ratio

material classification: (CH) SILTY CLAY - high plasticity, light grey, trace of fine to coarse sand.

note 1 : Single Individual Undisturbed Specimen - (Multistage)

note 2 : Initial Bar B Response = 0.98

note 3: Initial Specimen Dimensions (mm):- 130.70 X 63.34 (Dia)



Type of Test: Saturated, consolidated, undrained, with pore water measurements.

| Shear Stage | Data | | | | | | | | | |
|-------------|-------------|---------------------------------------|------------|------------|---------------------------------------|-----------------------------|---------|---------|----------------|-----------------------------|
| Stage | Strain Rate | ϵ_{f} | σ_3 | σ_1 | $(\sigma_1' + \sigma_3')/2$ | $(\sigma_1' - \sigma_3')/2$ | σ1'/σ3' | u_0 | u _f | $(\sigma_1 - \sigma_3)\phi$ |
| | %/min | % | kPa | kPa | kPa | kPa | | kPa | kPa | kPa |
| 1 | 0.004 | 1.982 | 26.000 | 70.923 | 48.462 | 22.462 | 2.728 | 505.000 | 524.000 | 44.923 |
| 2 | 0.004 | 3.956 | 60.000 | 128.193 | 94.097 | 34.097 | 2.137 | 504.000 | 540.000 | 68.193 |
| 3 | 0.004 | 5.812 | 108.000 | 222.063 | 165.031 | 57.031 | 2.056 | 544.000 | 592.000 | 114.063 |
| | • | · · · · · · · · · · · · · · · · · · · | | · | · · · · · · · · · · · · · · · · · · · | · | | | | |

| 3 | | 0.004 | 5.812 | 108.000 | 222.063 | 165.031 | 57.031 | 2.056 | 544.000 | 592.000 | 114.063 |
|------------|---------------------|-------|---------|---------|-----------------|---------------|-------------|------------|----------|---------|---------|
| Consolidat | ion Stage D | ata | | | | | Moisture | Contents | | | |
| Stage | $\Delta \sigma_{3}$ | | | | Drainage (| Condition | Initial: | | Stage 1: | 42.5 % | |
| | kPa | | | | | | Final: | Top: | Stage 3: | | 40.3 % |
| 1 | 45.00 | | | | one end and rad | dial boundary | | Middle: | Stage 3: | | 40.4 % |
| 2 | 96.00 | | | | one end and rad | dial boundary | | Bottom: | Stage 3: | | 42.1 % |
| 3 | 156.00 | | | | one end and rad | dial boundary | Initial Dry | / Density: | 1.22 | t/m3 | |
| Angle o | of Friction: | 17.5 | degrees | | | | Initial We | t Density: | 1.74 | t/m3 | |
| | Cohesion: 8.5 kPa | | | | | | | | | | |
| CLENITEIAY | 1 004 2010 | | | | | | | | | | |



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Page 2 of 2

coffey information SPECIALISTS IN SCIENTIFIC TESTING SOLUTIONS

project : BERRY BYPASS location: PRINCES HIGHWAY

triaxial shear test: stress - strain plots client: ROADS AND MARITIME SERVICES, SOUTHERN REGION

job no : INFOLCOV00959AA

Test Method: AS1289.6.4.2 (Note 4)

date: 16 May 2012 report number: IOLT 5557

principal: ROADS AND MARITIME SERVICES, SOUTHERN REGION laboratory number: LCOV12S-00423

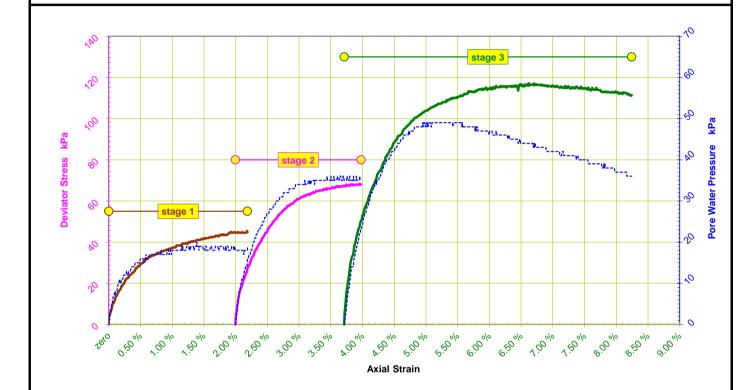
Sample Number: **B9** (2.00 to 2.35 m) Failure Criteria: Maximum principal effective stress ratio

Material Classification: (CH) SILTY CLAY - high plasticity, light grey, trace of fine to coarse sand.

note 1 : Single Individual Undisturbed Specimen - (Multistage)

note 2 : Initial Bar B Response = 0.98

note 3: Initial Specimen Dimensions (mm):- 130.70 X 63.34 (Dia)



Type of Test: Saturated, consolidated, undrained, with pore water measurements.

| Snear Stag | e Data | | | | | | | Back Pres | sure: | | |
|--------------------------|---------------------|-------------|----------------|-----------------------------|------------------|----------------------|-----------------------------|------------|-----------------|-----------|--------|
| Stage | | Strain Rate | ϵ_{f} | σ_3 | u_0 | u_f | $(\sigma_1 - \sigma_3)\phi$ | | | 500.0 kPa | |
| | | %/min | % | kPa | kPa | kPa | kPa | Cell Press | ure(s): | | |
| 1 | | 0.004 | 1.982 | 26.000 | 505.000 | 524.000 | 44.923 | | Stage 1: | 550.0 kPa | |
| 2 | | 0.004 | 3.956 | 60.000 | 504.000 | 540.000 | 68.193 | | Stage 2: | 600.0 kPa | |
| 3 | | 0.004 | 5.812 | 108.000 | 544.000 | 592.000 | 114.063 | | Stage 3: | 700.0 kPa | |
| Consolidation Stage Data | | | | Moisture Contents: | | | | | | | |
| Stage | $\Delta \sigma_{3}$ | | | | Drainage (| Condition | Initial: | | Stage 1: | 42.5 % | |
| | kPa | | | | | | Final: | Тор: | Stage 3: | | 40.3 % |
| 1 | 45.00 | | | | one end and radi | ial boundary | | Middle: | Stage 3: | | 40.4 % |
| 2 | 96.00 | | | | one end and radi | ial boundary | | Bottom: | ottom: Stage 3: | | 42.1 % |
| 3 156.00 | | | | one end and radial boundary | | Initial Dry Density: | | 1.22 t | t/m3 | | |
| Angle of Friction: 17.5 | | 17.5 | degrees | | | | Initial Wet Density: 1.74 | | | t/m3 | |
| | | | | | | | | | | | |

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triaxial shear test: shear path & Mohr circle plot

Page 1 of 2

client: ROADS AND MARITIME SERVICES, SOUTHERN REGION

job no : INFOLCOV00959AA principal: ROADS AND MARITIME SERVICES, SOUTHERN REGION date: 24 May 2012 project : BERRY BYPASS report number: IOLT 5584 laboratory number: LCOV12S-00421 location: PRINCES HIGHWAY

(2.00 to 2.35 m) sample number: B3 Test Method: AS1289.6.4.2 (Note 4)

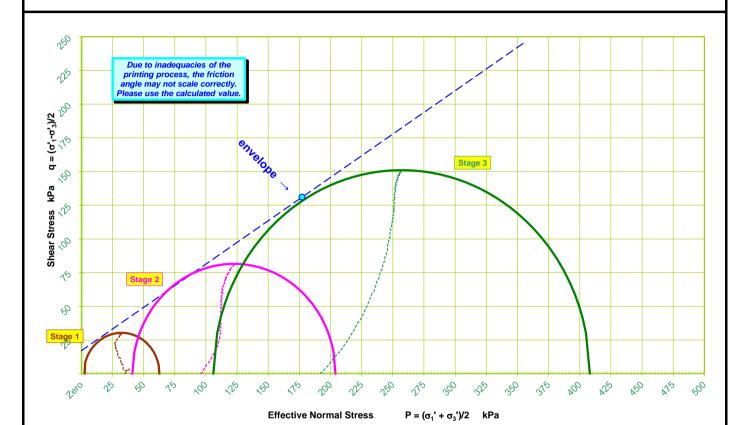
failure criteria: Maximum principal effective stress ratio

material classification: (CI) SANDY SILTY CLAY - medium plasticity, mottled brown, fine to coarse sand.

note 1 : Single Individual Undisturbed Specimen - (Multistage)

note 2 : Initial Bar B Response = 0.95

note 3: Initial Specimen Dimensions (mm):- 125.50 X 63.204 (Dia)



Saturated, consolidated, undrained, with pore water measurements.

| Shear Stag | e Data | | | | | | | | | |
|--|--------------------------|----------------|------------|------------|-----------------------------|-----------------------------|---------|----------|---------|-----------------------------|
| Stage | Strain Rate | ϵ_{f} | σ_3 | σ_1 | $(\sigma_1' + \sigma_3')/2$ | $(\sigma_1' - \sigma_3')/2$ | σ1'/σ3' | u_0 | u_f | $(\sigma_1 - \sigma_3)\phi$ |
| | %/min | % | kPa | kPa | kPa | kPa | | kPa | kPa | kPa |
| 1 | 0.006 | 0.557 | 2.000 | 62.699 | 32.349 | 30.349 | 31.349 | 215.000 | 248.000 | 60.699 |
| 2 | 0.006 | 2.061 | 41.000 | 204.003 | 122.502 | 81.502 | 4.976 | 204.000 | 259.000 | 163.003 |
| 3 | 0.006 | 3.977 | 106.000 | 408.032 | 257.016 | 151.016 | 3.849 | 208.000 | 294.000 | 302.032 |
| Consolidation Stage Data Moisture Contents | | | | | | | | | | |
| Stage | Δ σ э $_3$ | | | Drainage | Condition | Initial: | | Stage 1: | 27.9 % | |

| Consolidati | Consolidation Stage Data | | | | | Moisture Contents | | | | | | |
|--------------|--------------------------|------|---------|-----------------------------|-------------|-------------------|----------|--------|--------|--|--|--|
| Stage | Δσэ3 | | | Drainage Condition | Initial: | | Stage 1: | 27.9 % | | | | |
| | kPa | | | | Final: | Тор: | Stage 3: | | 26.2 % | | | |
| 1 | 35.00 | | | one end and radial boundary | | Middle: | Stage 3: | | 25.7 % | | | |
| 2 | 96.00 | | | one end and radial boundary | | Bottom: | Stage 3: | | 25.6 % | | | |
| 3 | 192.00 | | | one end and radial boundary | Initial Dry | Density: | 1.52 t | /m3 | | | | |
| Angle o | f Friction: | 32.5 | degrees | | Initial Wet | Density: | 1.94 t | /m3 | | | | |
| | Cohesion: | 17.1 | kPa | | | | | | | | | |
| GLEN TRIAX 1 | 004 2010 | • | _ | | | | | | | | | |



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triaxial shear test: stress - strain plots

Page 2 of 2

client: ROADS AND MARITIME SERVICES, SOUTHERN REGION
principal: ROADS AND MARITIME SERVICES, SOUTHERN REGION
project: BERRY BYPASS
location: PRINCES HIGHWAY

project: BERRY BYPASS
location: PRINCES HIGHWAY

project: BERRY BYPASS
laboratory number: LCOV12S-00421

Sample Number: **B3** (2.00 to 2.35 m) Test Method : **AS1289.6.4.2** (**Note 4**)

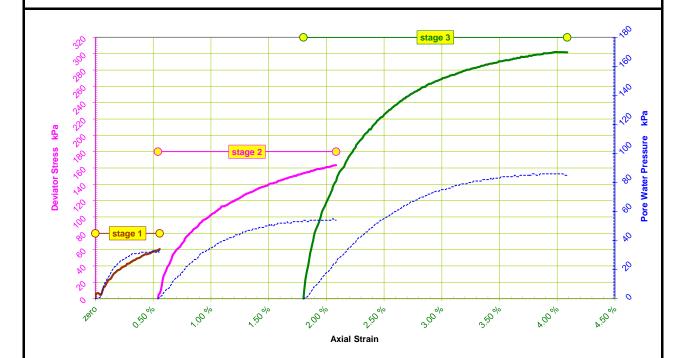
Failure Criteria: Maximum principal effective stress ratio

Material Classification: (CI) SANDY SILTY CLAY - medium plasticity, mottled brown, fine to coarse sand.

note 1 : Single Individual Undisturbed Specimen - (Multistage)

note 2 : Initial Bar B Response = 0.95

note 3: Initial Specimen Dimensions (mm):- 125.50 X 63.20 (Dia)



Type of Test: Saturated, consolidated, undrained, with pore water measurements.

| Shear Stage | e Data | | | | | | | Back Pres | ssure: | | |
|--------------|--------------------------|-------------|----------------|------------|-------------------|----------------|-----------------------------|------------------------|----------|------------------|--------|
| Stage | | Strain Rate | ϵ_{f} | σ_3 | u_0 | u _f | $(\sigma_1 - \sigma_3)\phi$ | | | 200.0 kPa | |
| | | %/min | % | kPa | kPa | kPa | kPa | Cell Press | sure(s): | | |
| 1 | | 0.006 | 0.557 | 2.000 | 215.000 | 248.000 | 60.699 | | Stage 1: | 250.0 kPa | 1 |
| 2 | | 0.006 | 2.061 | 41.000 | 204.000 | 259.000 | 163.003 | | Stage 2: | 300.0 kPa | 1 |
| 3 | | 0.006 | 3.977 | 106.000 | 208.000 | 294.000 | 302.032 | | Stage 3: | 400.0 kPa | ! |
| Consolidati | Consolidation Stage Data | | | | | | | Contents: | | | |
| Stage | $\Delta \sigma _{3}$ | | | | Drainage (| Condition | Initial: | | Stage 1: | 27.9 % | |
| | kPa | | | | | | Final: | Top: | Stage 3: | | 26.2 % |
| 1 | 35.00 | | | | one end and radi | al boundary | | Middle: | Stage 3: | | 25.7 % |
| 2 | 96.00 | | | | one end and radio | al boundary | | Bottom: | Stage 3: | | 25.6 % |
| 3 | 192.00 | | | | one end and radio | al boundary | Initial Dry | Density: | 1.52 | ^t /m3 | |
| Angle o | f Friction: | 32.5 | degrees | | | | Initial We | Net Density: 1.94 t/m. | | ^t /m3 | |
| (| Cohesion: | 17.1 | kPa | | | | | | | | |
| GLEN TRIAX 2 | 004 2010 | | | | | | | | | | |

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triaxial shear test: shear path & Mohr circle plot

Page 1 of 2

client : ROADS AND MARITIME SERVICES, SOUTHERN REGION
principal : ROADS AND MARITIME SERVICES, SOUTHERN REGION
project : BERRY BYPASS
location : PRINCES HIGHWAY

job no : INFOLCOV00959AA
date : 29 May 2012
report number: IOLT 5591
laboratory number: LCOV12S-00422

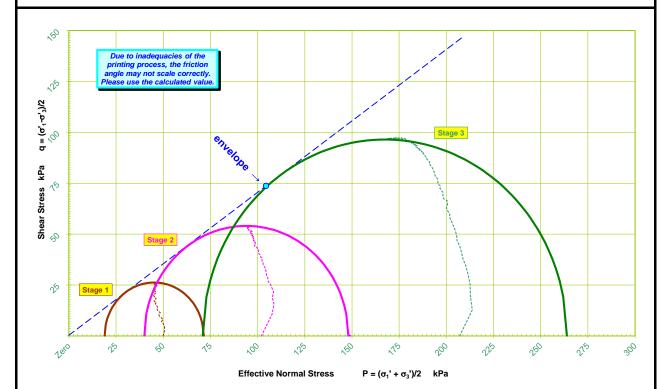
sample number: **B5** (1.05 to 1.55 m) Test Method : **AS1289.6.4.2 (Note 4)**

failure criteria: Maximum principal effective stress ratio

material classification: (SC) CLAYEY SAND - fine to coarse, mottled brown, fines of high plasticity.

note 1 : Single Individual Undisturbed Specimen - (Multistage) note 2 : Initial Bar B Response = 0.95

note 3: Initial Specimen Dimensions (mm):- 125.50 X 63.40 (Dia)



Type of Test: Saturated, consolidated, undrained, with pore water measurements.

| hear | Stage | Data |
|------|-------|------|
|------|-------|------|

| Stage | Strain Rate | ϵ_{f} | σ_3 ' | σ_1 | $(\sigma_1' + \sigma_3')/2$ | $(\sigma_1' - \sigma_3')/2$ | σ1' / σ3' | u_0 | u _f | $(\sigma_1 - \sigma_3)\phi$ |
|-------|-------------|----------------|--------------|------------|-----------------------------|-----------------------------|-----------|---------|----------------|-----------------------------|
| | %/min | % | kPa | kPa | kPa | kPa | | kPa | kPa | kPa |
| 1 | 0.015 | 1.164 | 19.000 | 71.448 | 45.224 | 26.224 | 3.760 | 600.000 | 631.000 | 52.448 |
| 2 | 0.015 | 3.216 | 40.000 | 148.068 | 94.034 | 54.034 | 3.702 | 598.000 | 660.000 | 108.068 |
| 3 | 0.015 | 7.263 | 71.000 | 263.877 | 167.438 | 96.438 | 3.717 | 593.000 | 729.000 | 192.877 |

| Consolidati | on Stage | Data | | | Moisture | Contents | | | |
|-------------------------|---------------------|---------|---|-----------------------------|-------------|------------|----------|--------|--------|
| Stage | $\Delta \sigma_{3}$ | | | Drainage Condition | Initial: | | Stage 1: | 35.1 % | |
| | kPa | | | | Final: | Тор: | Stage 3: | | 32.5 % |
| 1 | 50.00 | | | one end and radial boundary | | Middle: | Stage 3: | | 32.4 % |
| 2 | 102.00 | | | one end and radial boundary | | Bottom: | Stage 3: | | 32.0 % |
| 3 | 207.00 | | | one end and radial boundary | Initial Dry | / Density: | 1.28 t | /m3 | |
| Angle of Friction: 35.0 | | degrees | • | Initial We | t Density: | 1.73 t | /m3 | | |

GLEN TRIAX 1 004 2010

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triaxial shear test: stress - strain plots

Page 2 of 2

client: ROADS AND MARITIME SERVICES, SOUTHERN REGION
principal: ROADS AND MARITIME SERVICES, SOUTHERN REGION
project: BERRY BYPASS
location: PRINCES HIGHWAY

project: BERRY BYPASS
location: PRINCES HIGHWAY

project: BERRY BYPASS
laboratory number: LCOV12S-00422

Sample Number: **B5** (1.05 to 1.55 m) Test Method: **AS1289.6.4.2 (Note 4)**

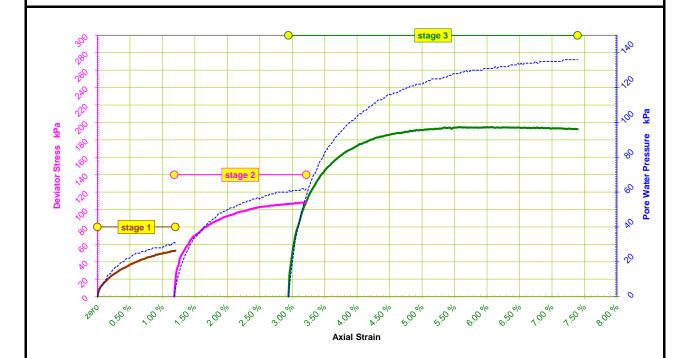
Failure Criteria: Maximum principal effective stress ratio

Material Classification: (SC) CLAYEY SAND - fine to coarse, mottled brown, fines of high plasticity.

note 1 : Single Individual Undisturbed Specimen - (Multistage)

note 2 : Initial Bar B Response = 0.95

note 3: Initial Specimen Dimensions (mm):- 125.50 X 63.40 (Dia)



Type of Test: Saturated, consolidated, undrained, with pore water measurements.

| Shear Stage | e Data | | | | | | Back Pres | ssure: | | | | |
|--------------|--------------------------------|-------------|----------------|--------------|-------------------|-------------|-----------------------------|--------------------------|----------|------------------|--------|--|
| Stage | | Strain Rate | ϵ_{f} | σ_3 ' | u_0 | u_f | $(\sigma_1 - \sigma_3)\phi$ | | | 600.0 kPa | | |
| | | %/min | % | kPa | kPa | kPa | kPa | Cell Press | sure(s): | | | |
| 1 | | 0.015 | 1.164 | 19.000 | 600.000 | 631.000 | 52.448 | | Stage 1: | 650.0 kPa | | |
| 2 | | 0.015 | 3.216 | 40.000 | 598.000 | 660.000 | 108.068 | | Stage 2: | 700.0 kPa | | |
| 3 | | 0.015 | 7.263 | 71.000 | 593.000 | 729.000 | 192.877 | | Stage 3: | 800.0 kPa | | |
| Consolidati | onsolidation Stage Data | | | | | | Moisture Contents: | | | | | |
| Stage | $\Delta \sigma \mathfrak{d}_3$ | | | | Drainage (| Condition | Initial: | | Stage 1: | 35.1 % | | |
| | kPa | | | | | | Final: | Тор: | Stage 3: | | 32.5 % | |
| 1 | 50.00 | | | | one end and radio | al boundary | | Middle: | Stage 3: | | 32.4 % | |
| 2 | 102.00 | | | | one end and radio | al boundary | | Bottom: | Stage 3: | | 32.0 % | |
| 3 | 207.00 | | | | one end and radio | al boundary | Initial Dry | / Density: | 1.28 t | ^t /m3 | | |
| Angle of | f Friction: | 35.0 | degrees | | | | Initial We | nitial Wet Density: 1.73 | | | | |
| | Cohesion: 0.3 | | | | | | | | | | | |
| GLEN TRIAX 2 | 2 004 2010 | | I | | | | | | | | | |

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Job No:

INFOLCOV00959AA

Consolidation Test

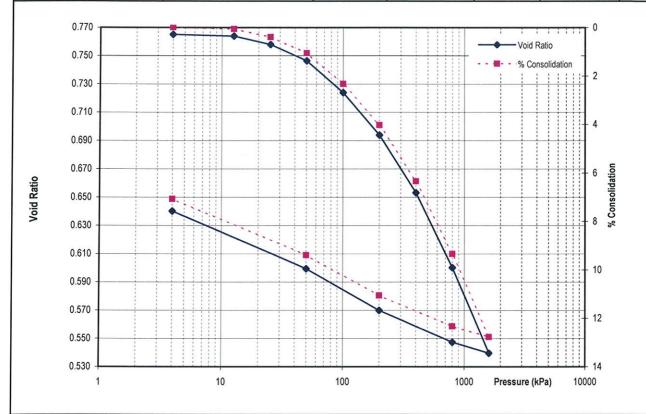
Sheet 1 of 1

ROADS AND MARITIME SERVICES, SOUTHERN REGION Client: Office: SYDNEY Principal: ROADS AND MARITIME SERVICES, SOUTHERN REGION 21/5/2012 Date: **BERRY BYPASS** Project: By: **GKC** PRINCES HIGHWAY **GKC** Location: Checked: AS1289 6.6.1 Test Procedure: Borehole: **IOLT 5558** 2.00 to 2.35 m Report No: Depth: Sample No. **B3** Laboratory No's LCOV12S-00421 Sample Type: Undisturbed

Material Description:

(CI) SANDY SILTY CLAY - medium plasticity, mottled brown, fine to coarse sand.

| Initial Dry Density (t/m²): Soil Particle Density (t/m³): | | 1.50 | Initial Moisture Content (%): | | 27.9 | Initial Degree of Saturation (%): | | 96.7 |
|--|------|----------------------------|-------------------------------|---------------|----------------|-----------------------------------|----------------|--------|
| | | 2.65 | Final Moisture Cont | ent (%): | 26.2 | Initial Specimen Height (mm): | | 20.026 |
| Pressure Range (kPa) | | Void Ratio | | Consolidation | C _v | m _v | C _c | Cα |
| From | То | at start of load increment | at end of load increment | (%) | m²/year | m²/kN | | |
| 4 | 12.5 | 0.765 | 0.764 | 0.065 | 0.36233 | 0.00008 | 0.00232 | |
| 12.5 | 25 | 0.764 | 0.758 | 0.404 | 2.54112 | 0.00027 | 0.01991 | |
| 25 | 50 | 0.758 | 0.746 | 1.059 | 1.64453 | 0.00026 | 0.03836 | |
| 50 | 100 | 0.746 | 0.724 | 2.332 | 2.85215 | 0.00026 | 0.07466 | |
| 100 | 200 | 0.724 | 0.694 | 4.035 | 2.39086 | 0.00017 | 0.09984 | |
| 200 | 400 | 0.694 | 0.653 | 6.342 | 4.20848 | 0.00012 | 0.13527 | |
| 400 | 800 | 0.653 | 0.600 | 9.343 | 3.10037 | 0.00008 | 0.17597 | |
| 800 | 1600 | 0.600 | 0.540 | 12.773 | 3.51989 | 0.00005 | 0.20115 | |
| 1600 | 800 | 0.540 | 0.547 | 12.334 | | 1 | | |
| 800 | 200 | 0.547 | 0.570 | 11.061 | | 1 | | |
| 200 | 50 | 0.570 | 0.599 | 9.393 | | | | |
| 50 | 4 | 0.599 | 0.640 | 7.081 | | | | |
| | | | | | | | | |



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Garry K Collins

Approved Signatory

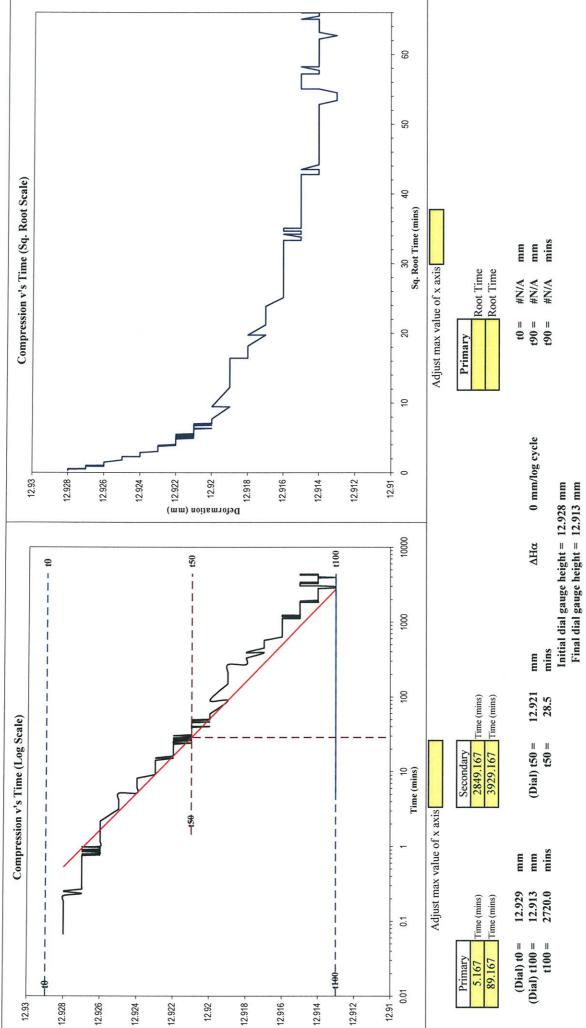
GLEN-CONS RPT-001-2010

Stage 1

13 kPa

Stage Load :

SAMPLE NO: LCOV12S-00421

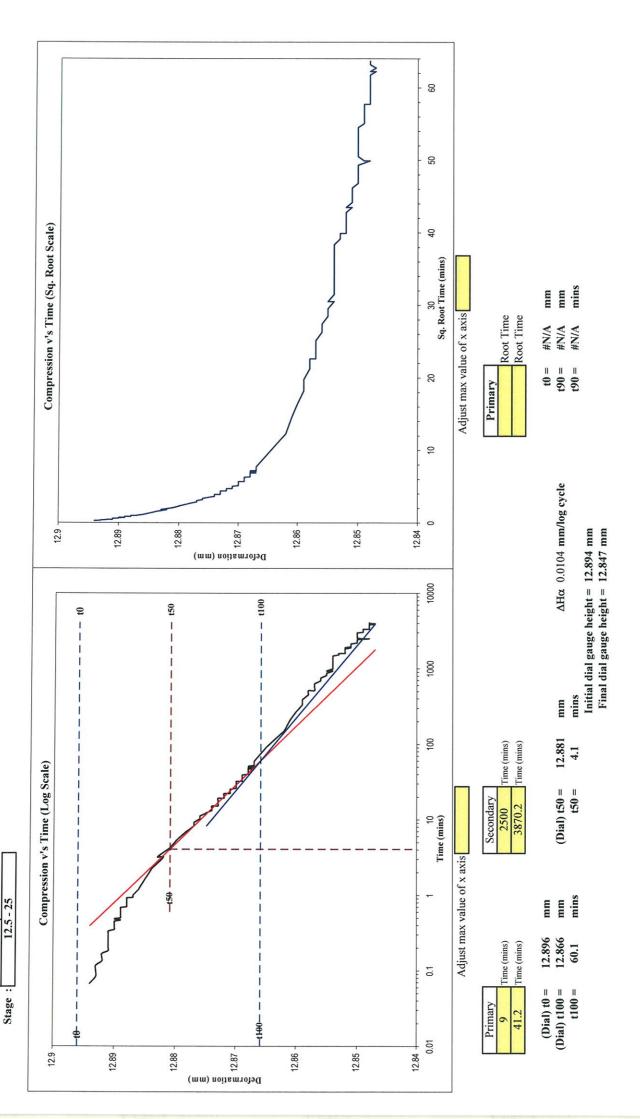


Deformation (mm)

Stage 2

25 kPa

Stage Load:



Stage 3

50 kPa

Stage Load : Rig Number : Stage :

Stage 4

100 kPa

Stage Load : Rig Number : Stage :

Stage 5

200 kPa

Stage Load : Rig Number: Stage :

100 - 200

Initial dial gauge height = 12.319 mm Final dial gauge height = 12.120 mm

ΔHα 0.0163 mm/log cycle

mm mins

12.239

(Dial) t50 = t50 =

49.8

Stage 6

400 kPa

Stage Load :

200 - 400

Rig Number :

Stage 7

800 kPa

Stage Load : Rig Number : Stage :

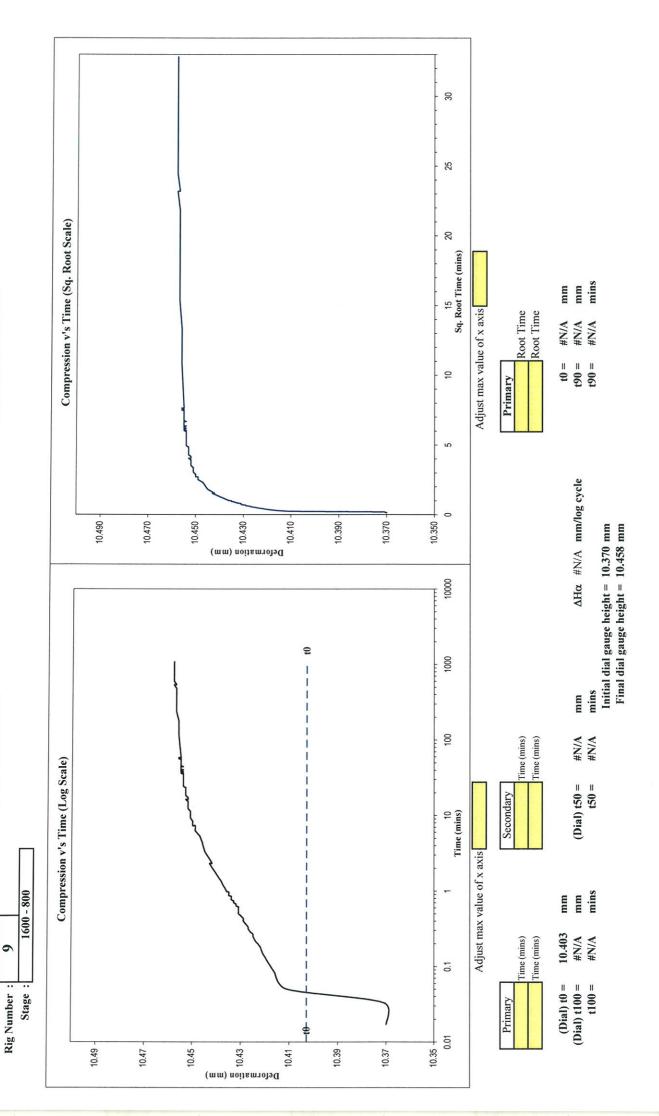
Stage 8

1600 kPa

Stage Load :
Rig Number :
Stage :

800 kPa

Stage Load :



Deformation (mm)

SAMPLE NO: LCOV12S-00421

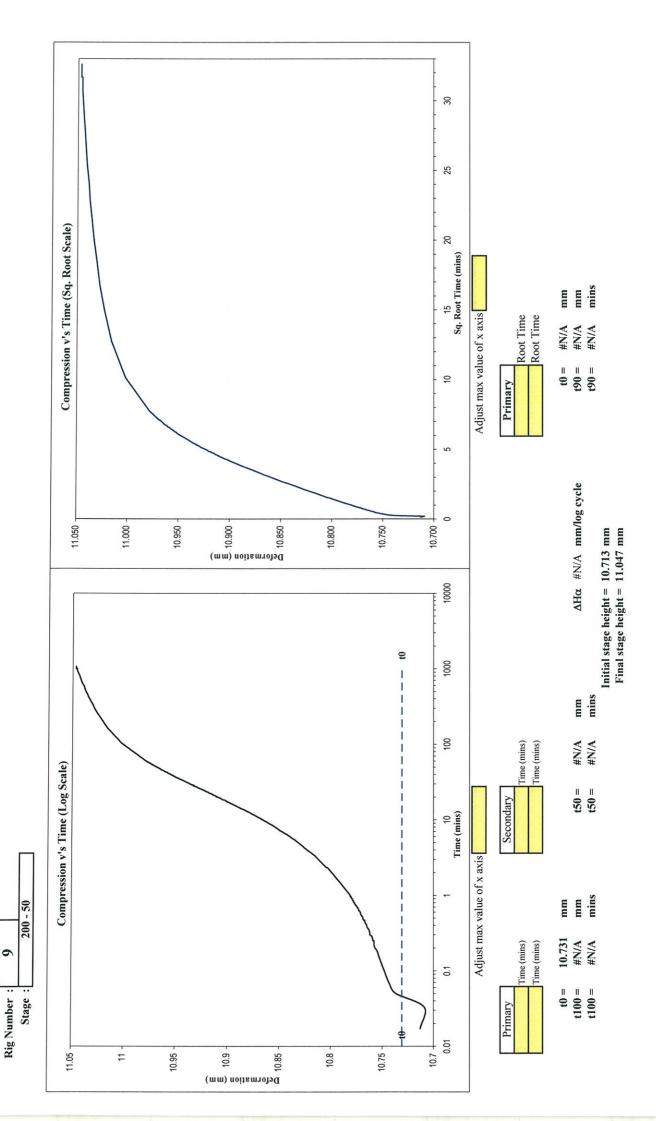
Stage 10 (Rebound)

200 kPa

Stage Load : Rig Number : Stage :

50 kPa

Stage Load :



Stage 12 (Rebound)

4 kPa

Stage Load: Rig Number:

