

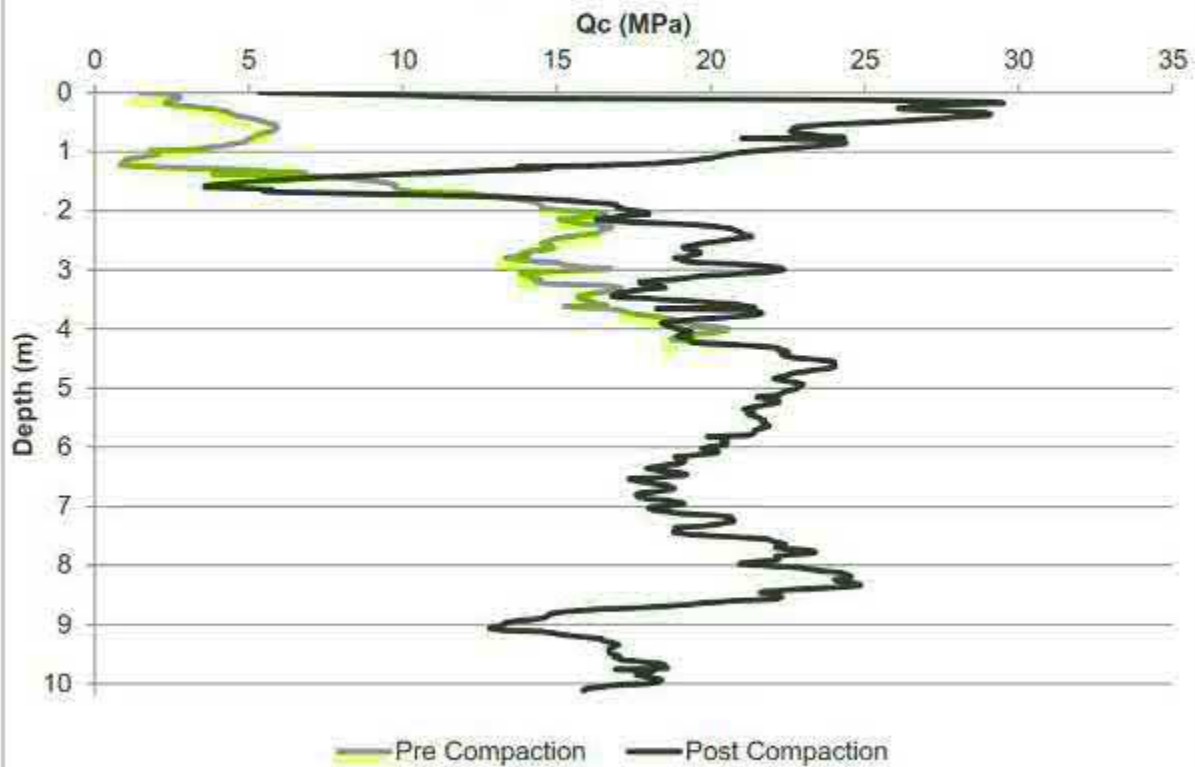


Appendix E

Qc Comparisons

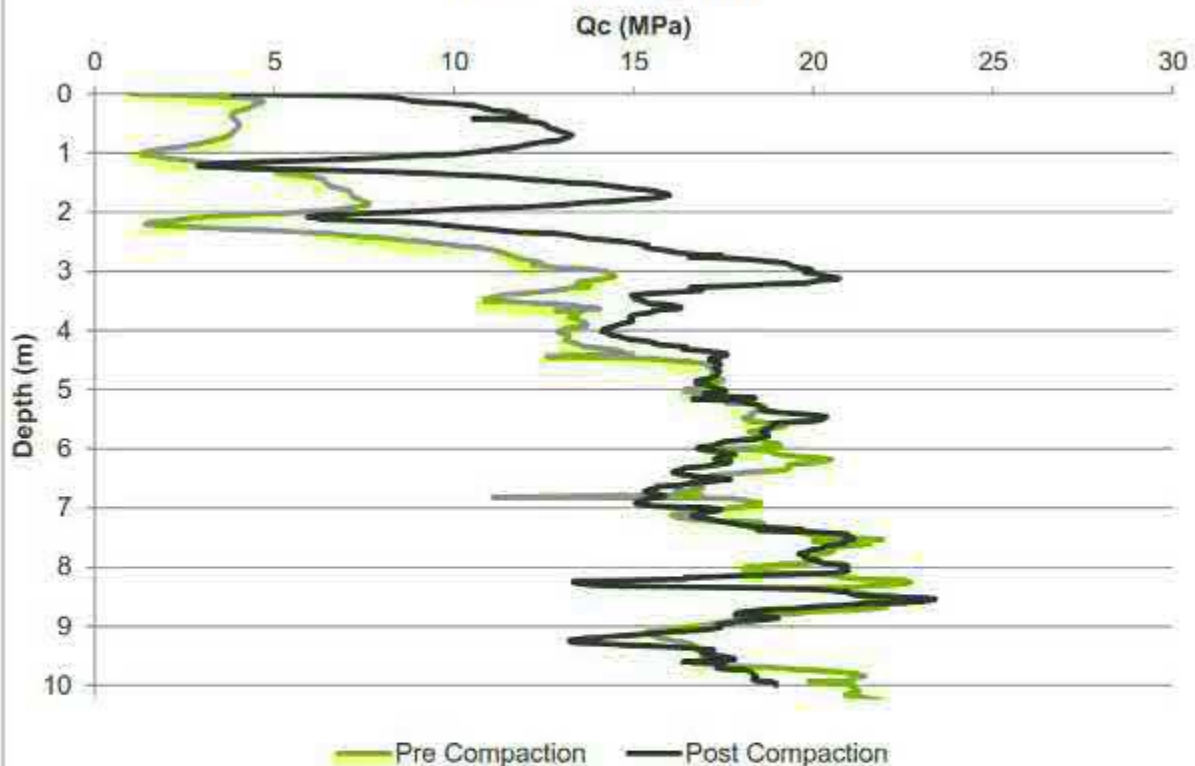
CPT506 - Qc Comparison

Pre & Post Compaction



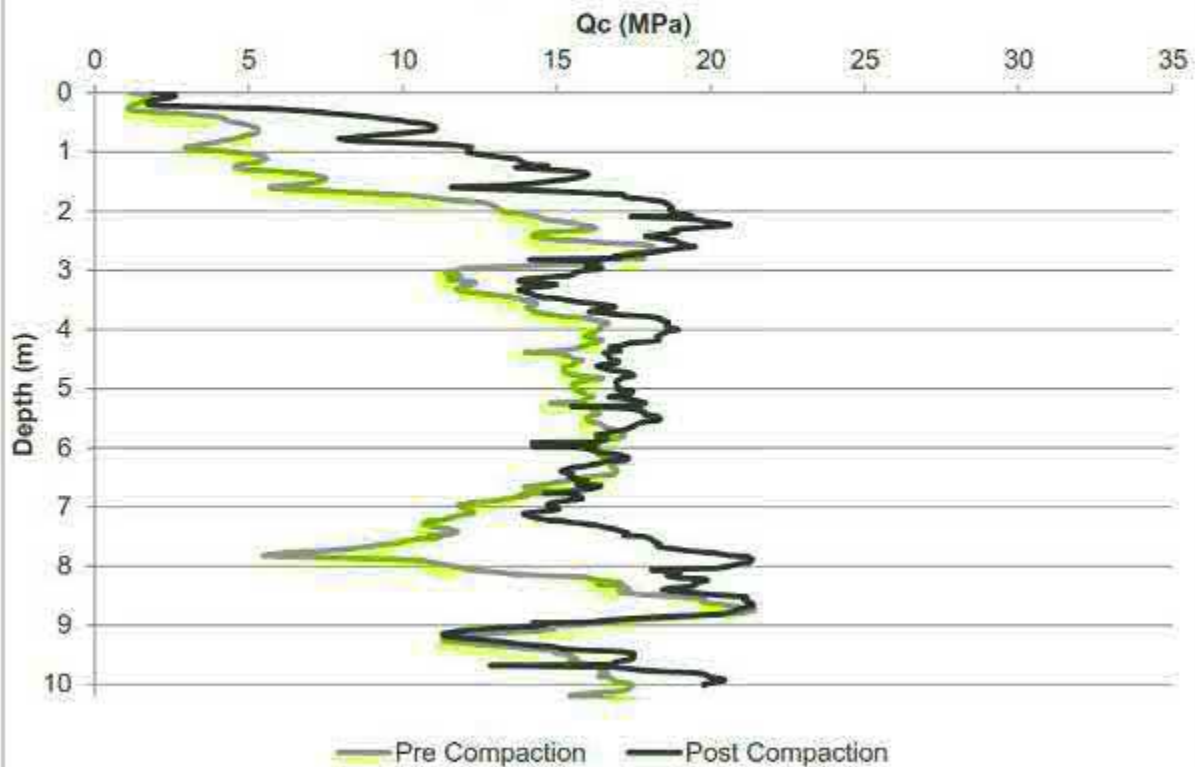
CPT507 - Qc Comparison

Pre & Post Compaction



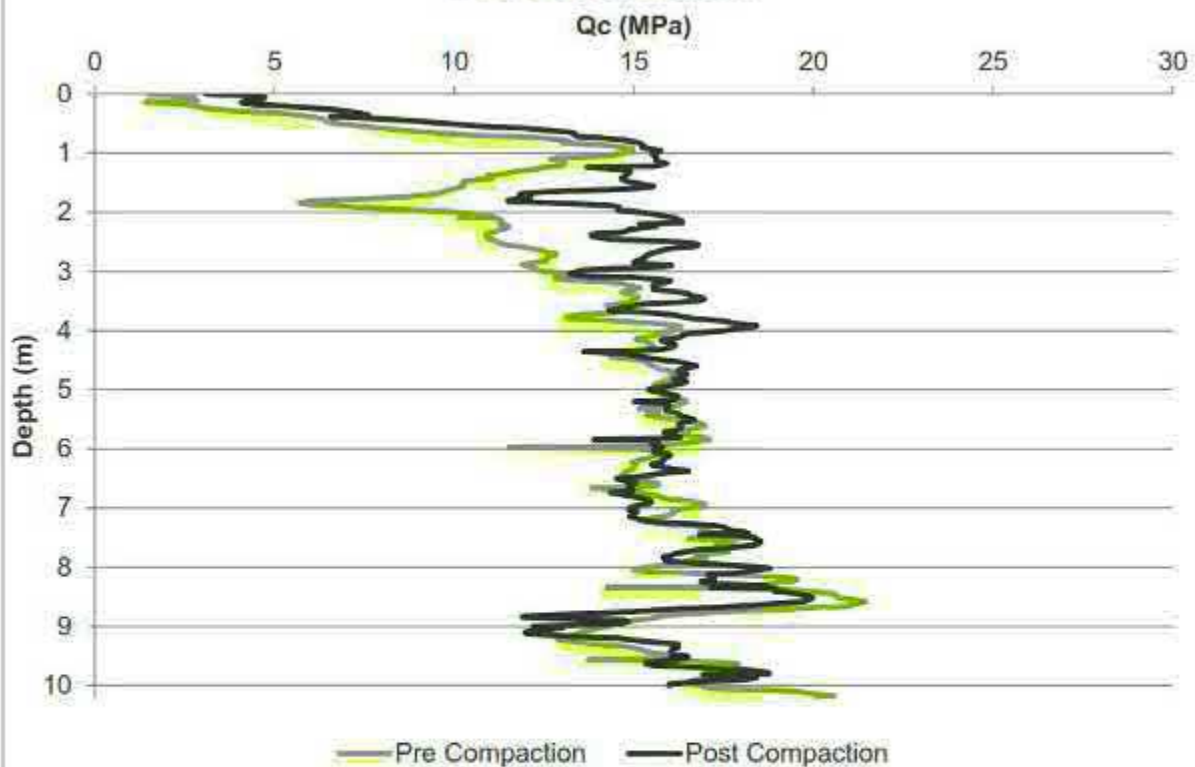
CPT508 - Qc Comparison

Pre & Post Compaction



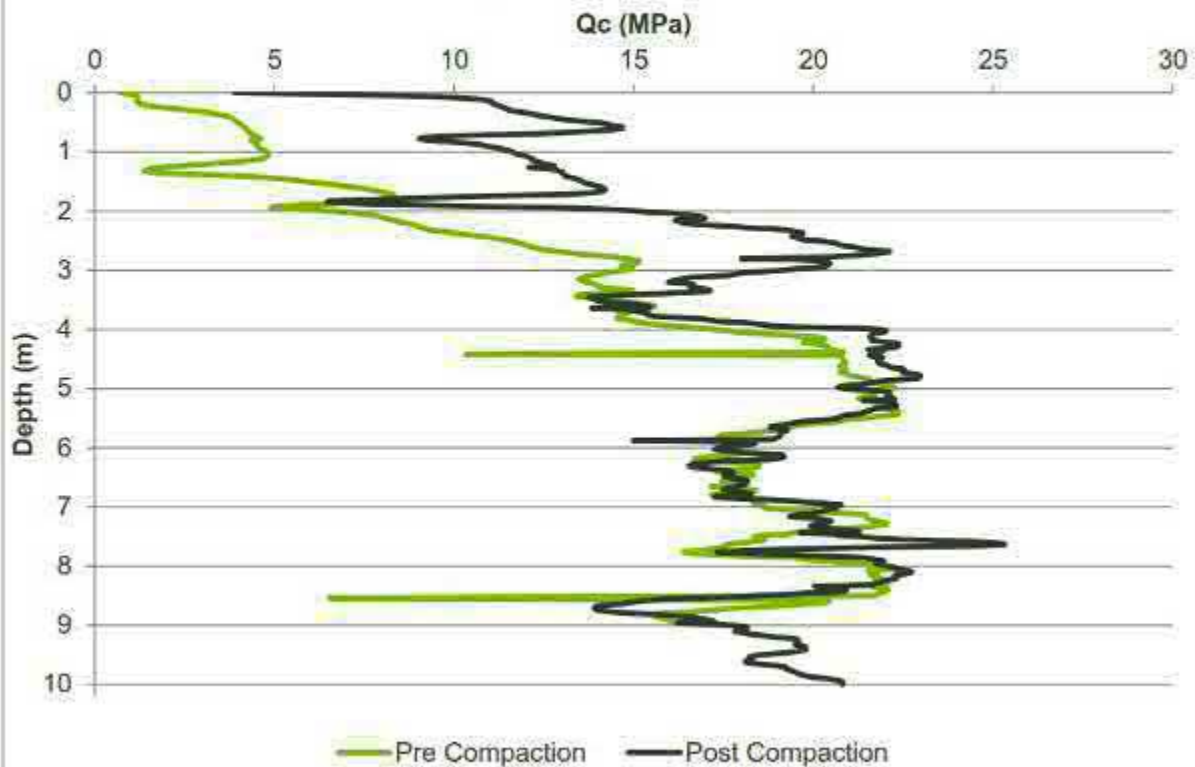
CPT509 - Qc Comparison

Pre & Post Compaction



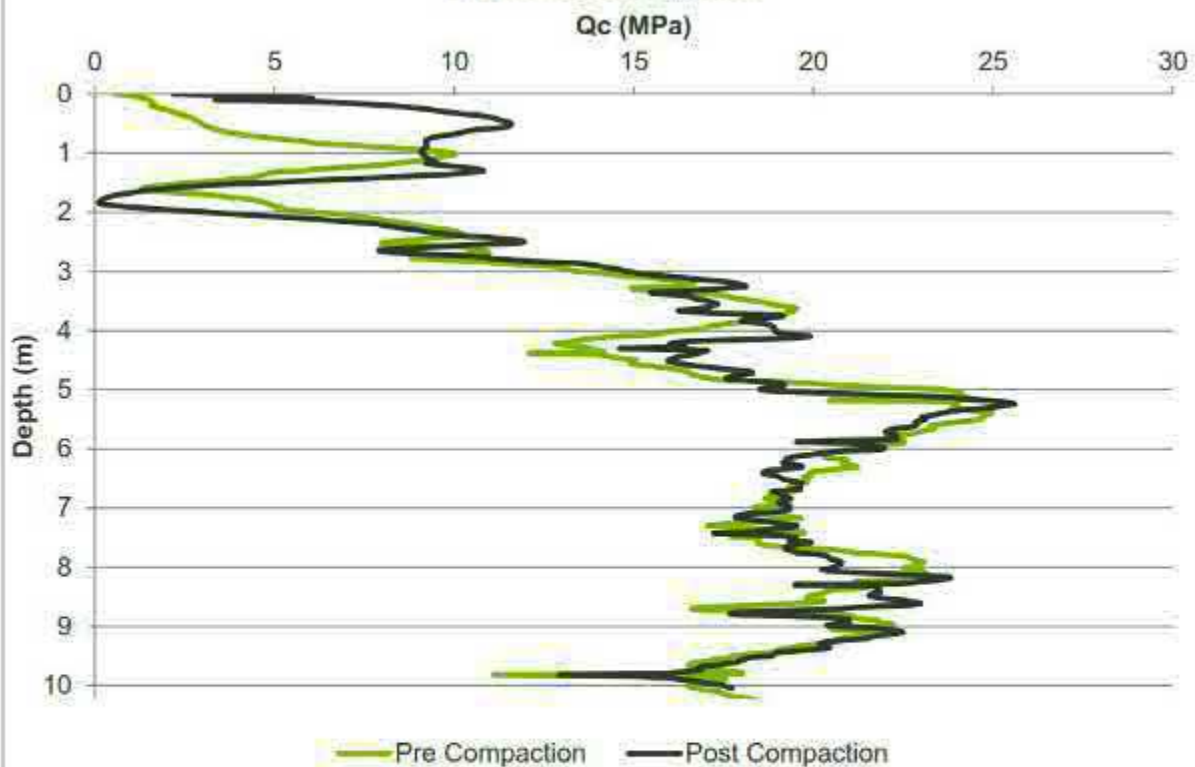
CPT532 - Qc Comparison

Pre & Post Compaction



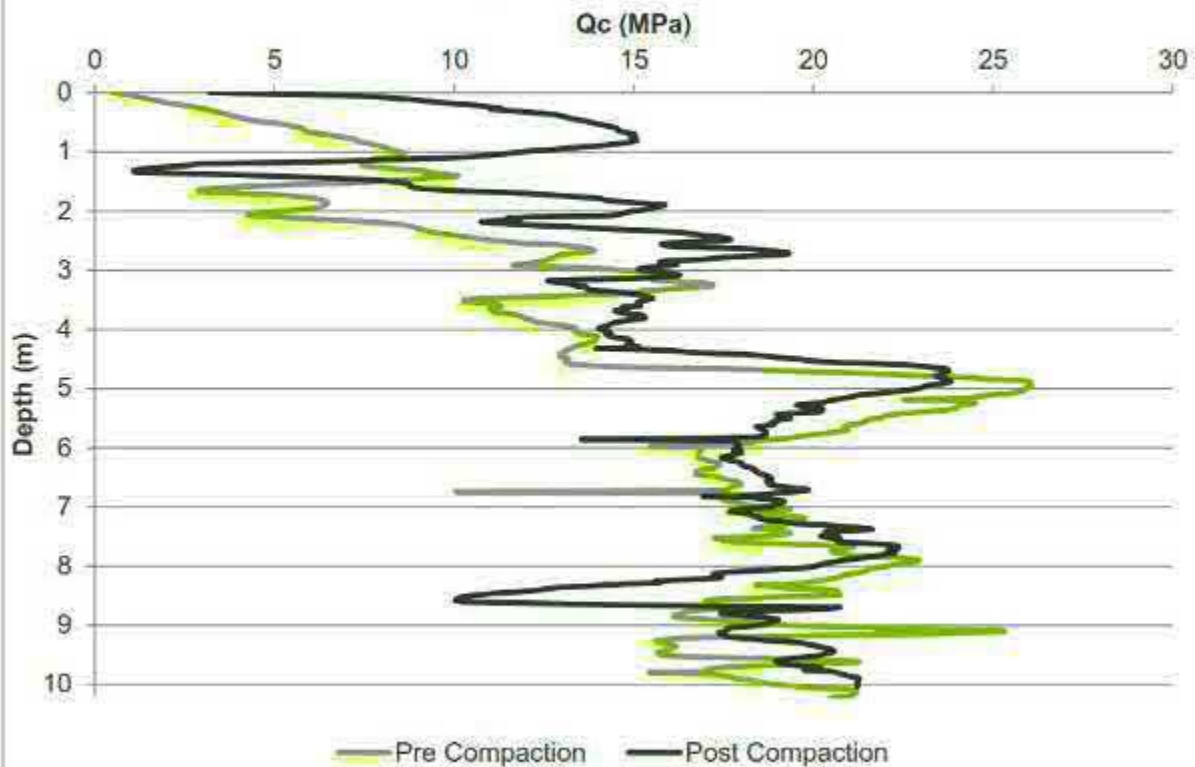
CPT533 - Qc Comparison

Pre & Post Compaction



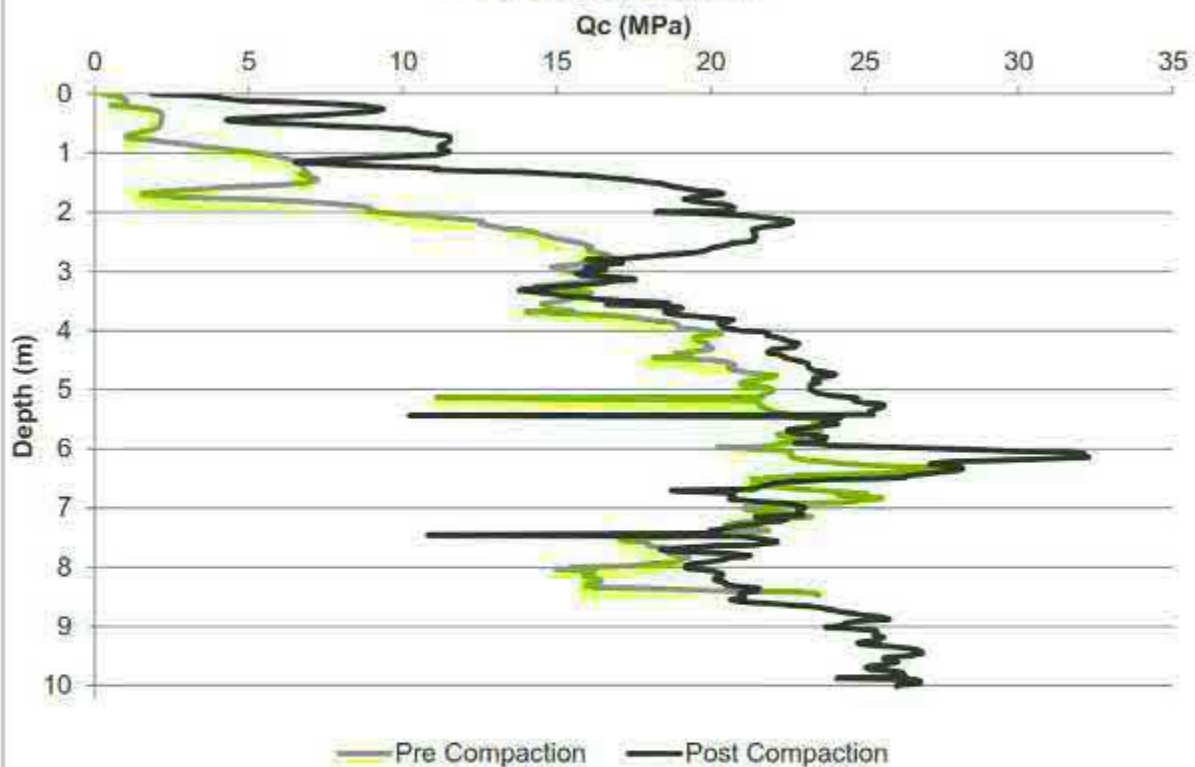
CPT534 - Qc Comparison

Pre & Post Compaction



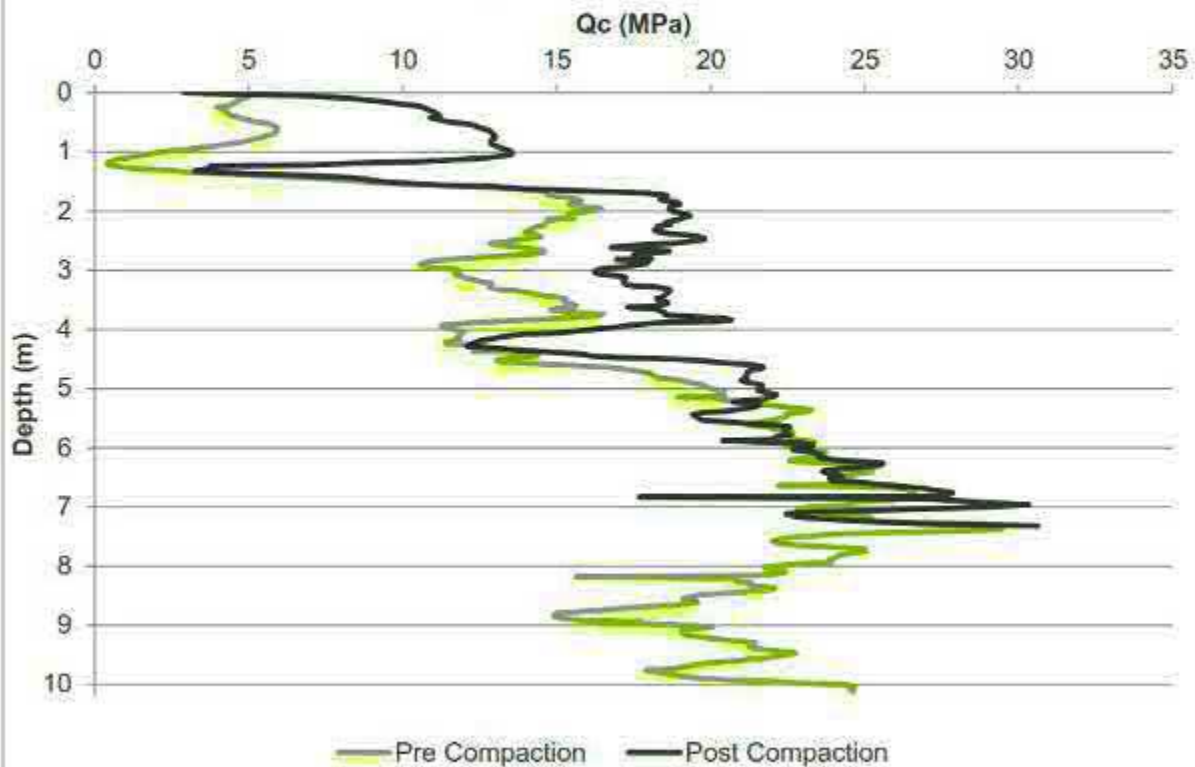
CPT540 - Qc Comparison

Pre & Post Compaction



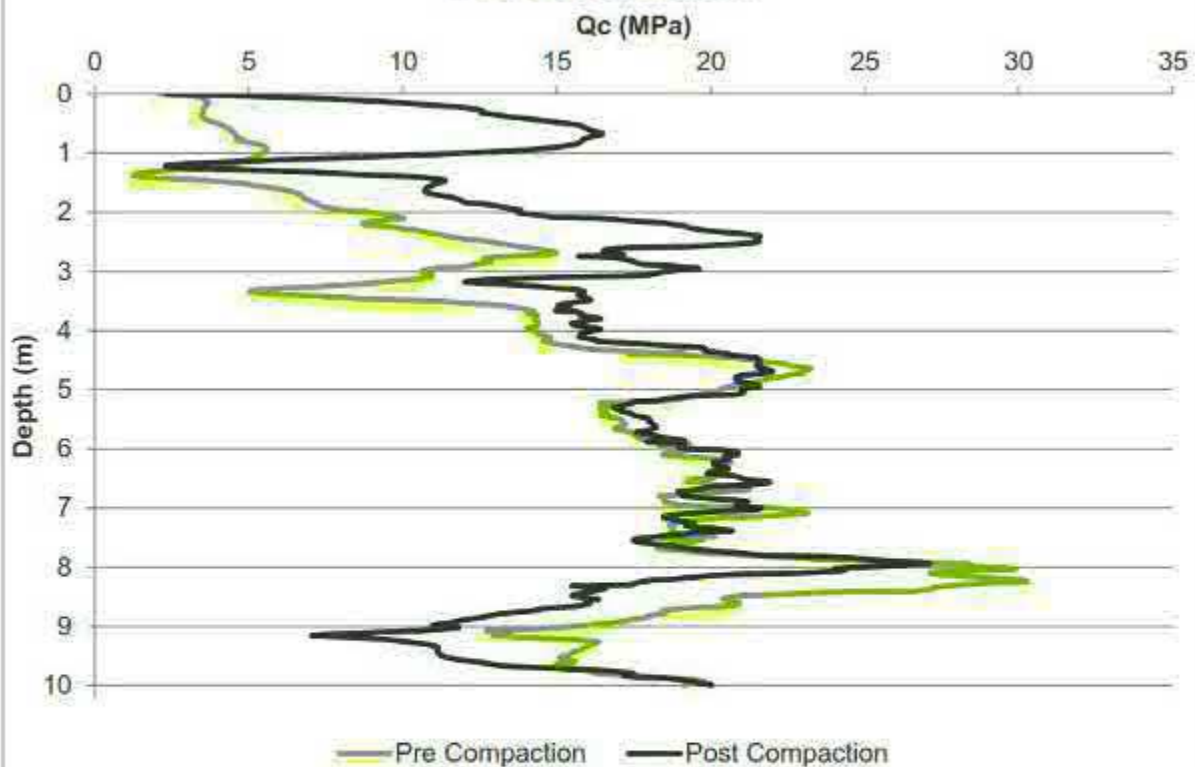
CPT601 - Qc Comparison

Pre & Post Compaction



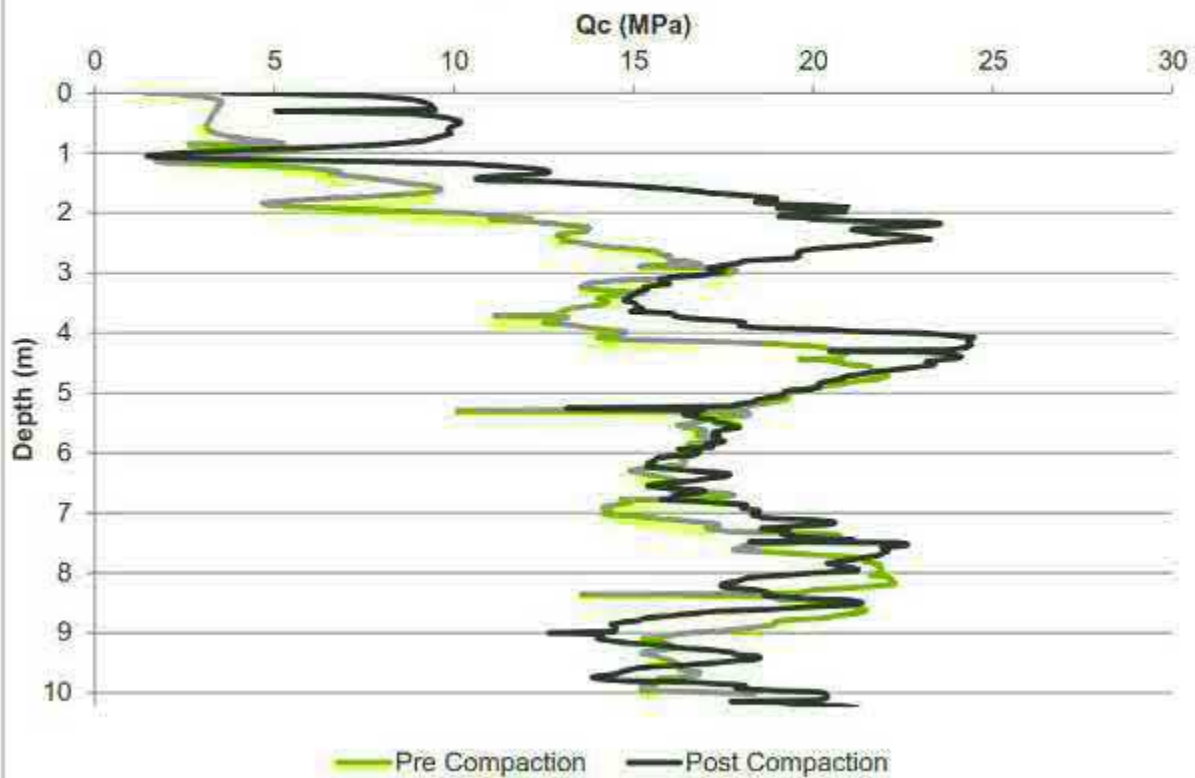
CPT602 - Qc Comparison

Pre & Post Compaction



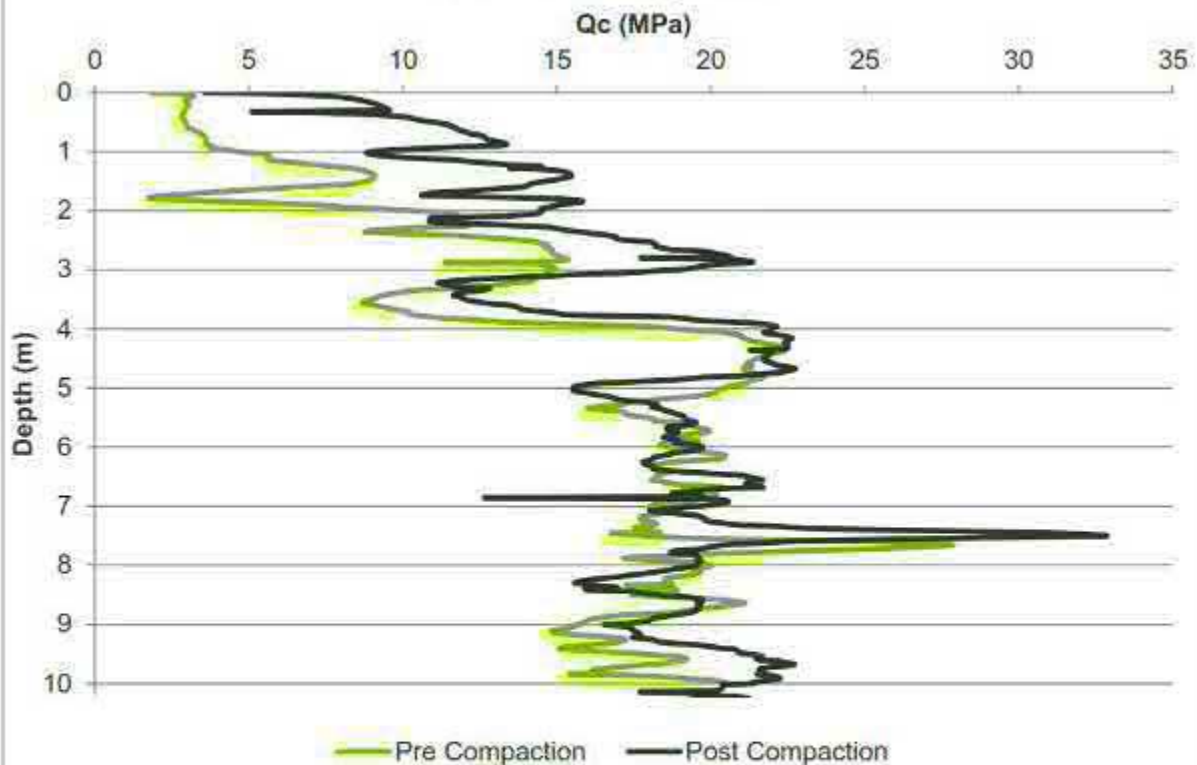
CPT603 - Qc Comparison

Pre & Post Compaction



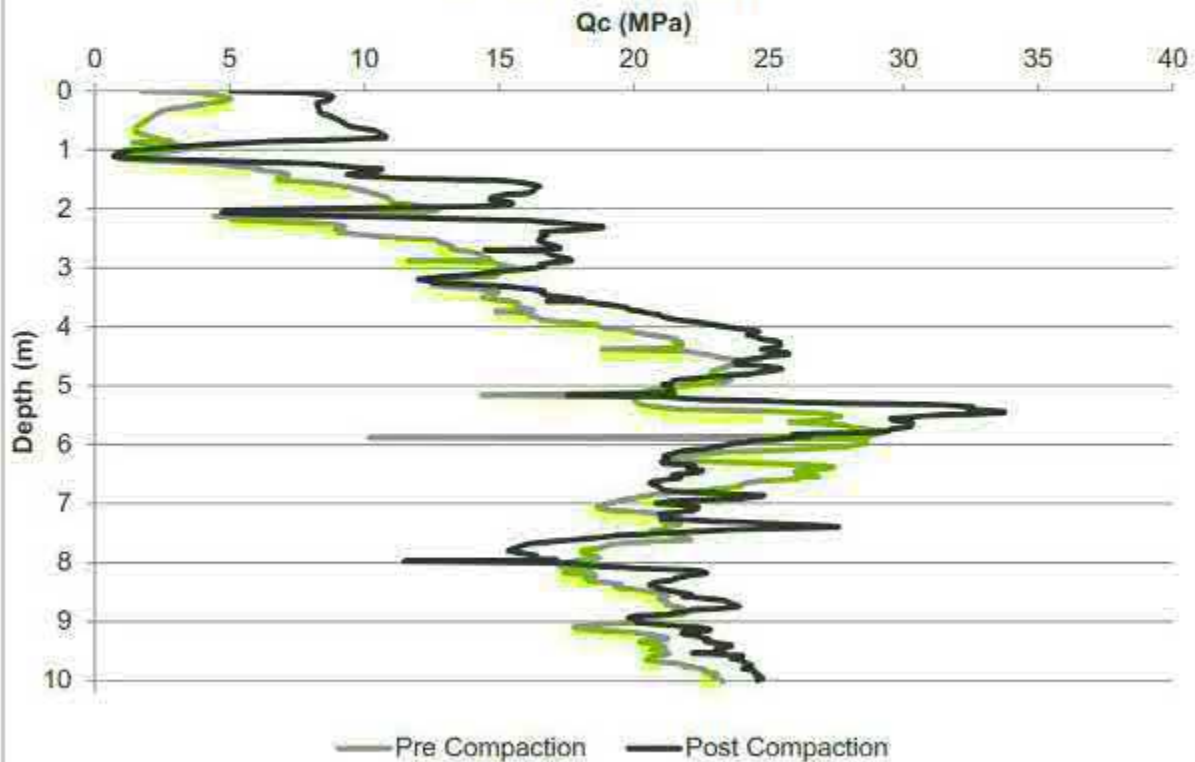
CPT604 - Qc Comparison

Pre & Post Compaction



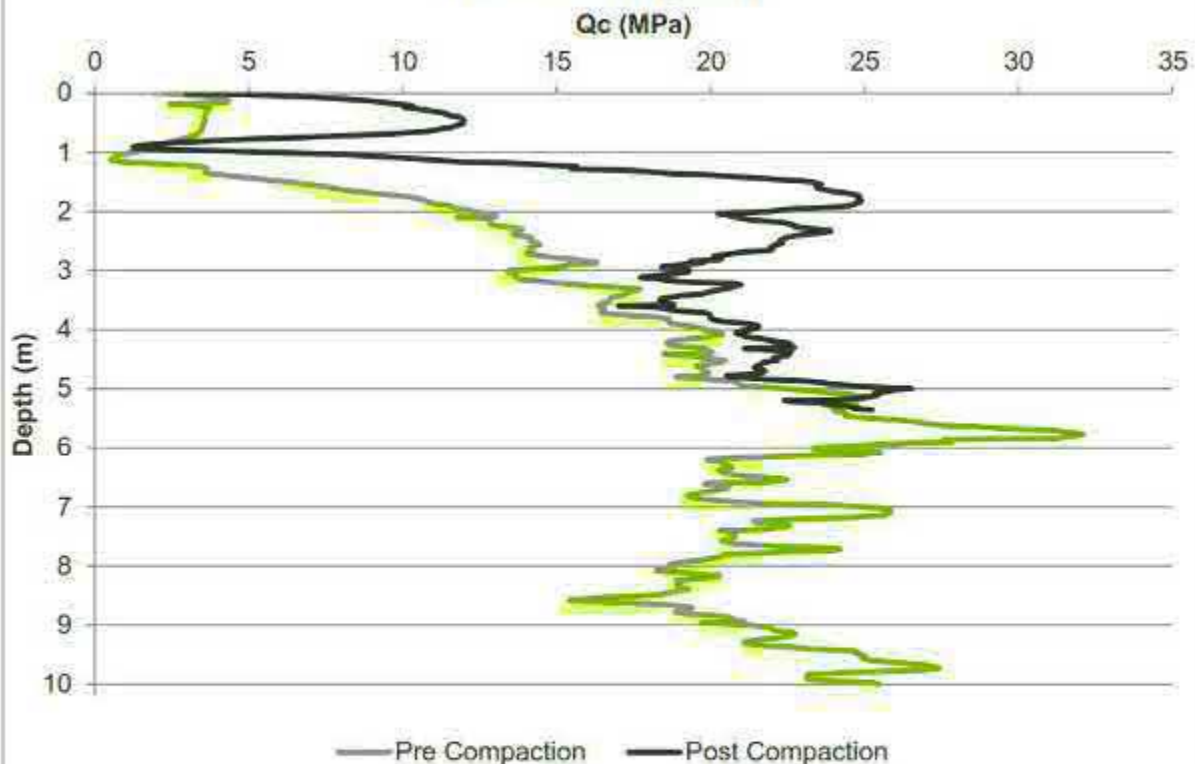
CPT605 - Qc Comparison

Pre & Post Compaction



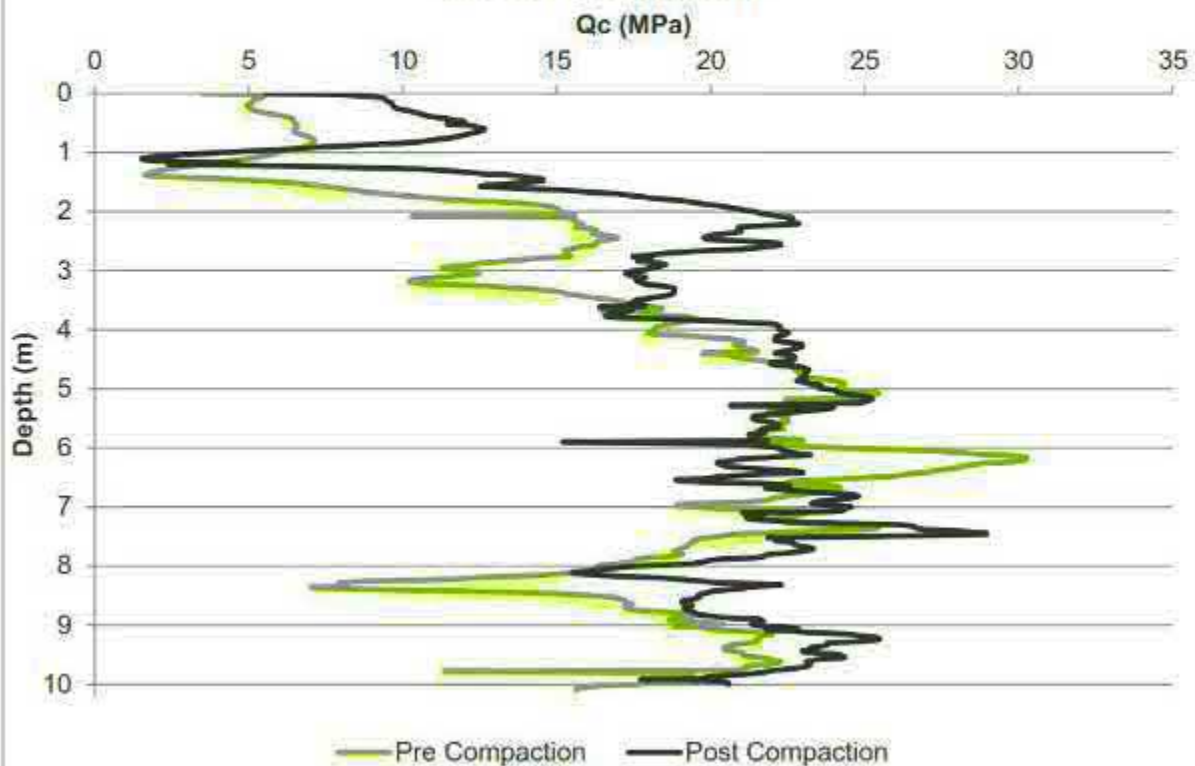
CPT606 - Qc Comparison

Pre & Post Compaction



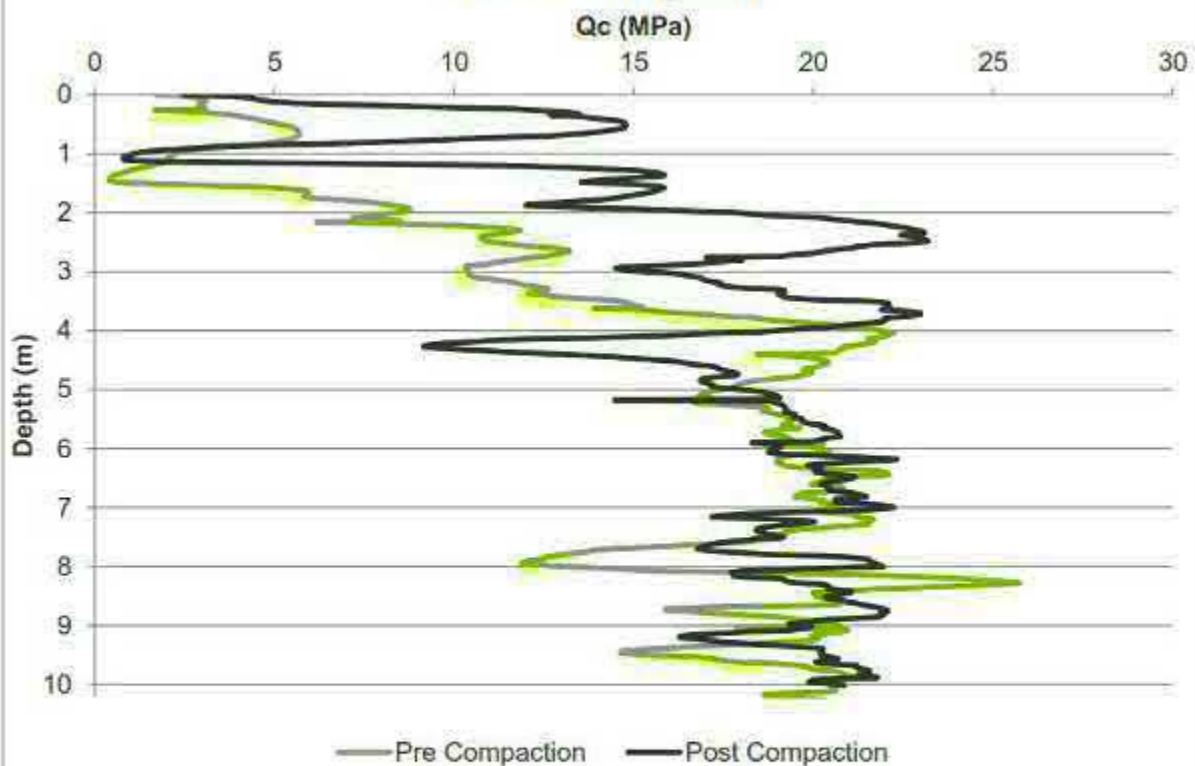
CPT607 - Qc Comparison

Pre & Post Compaction



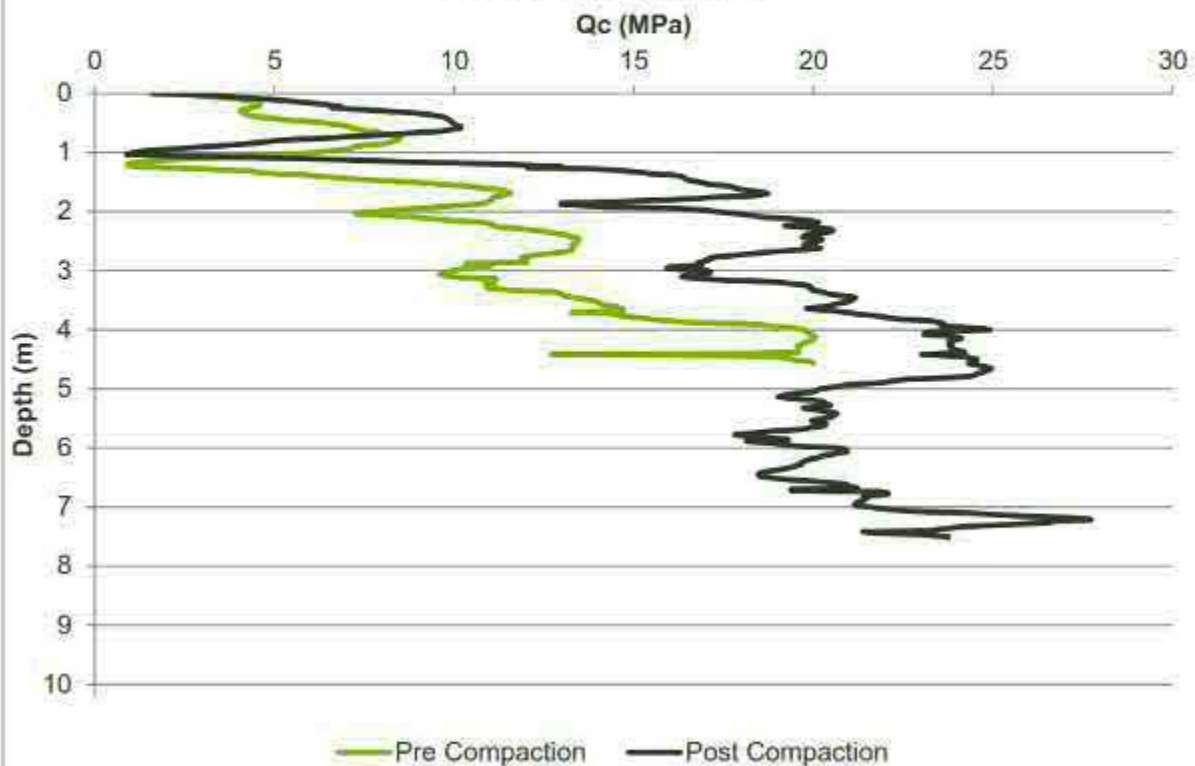
CPT608 - Qc Comparison

Pre & Post Compaction



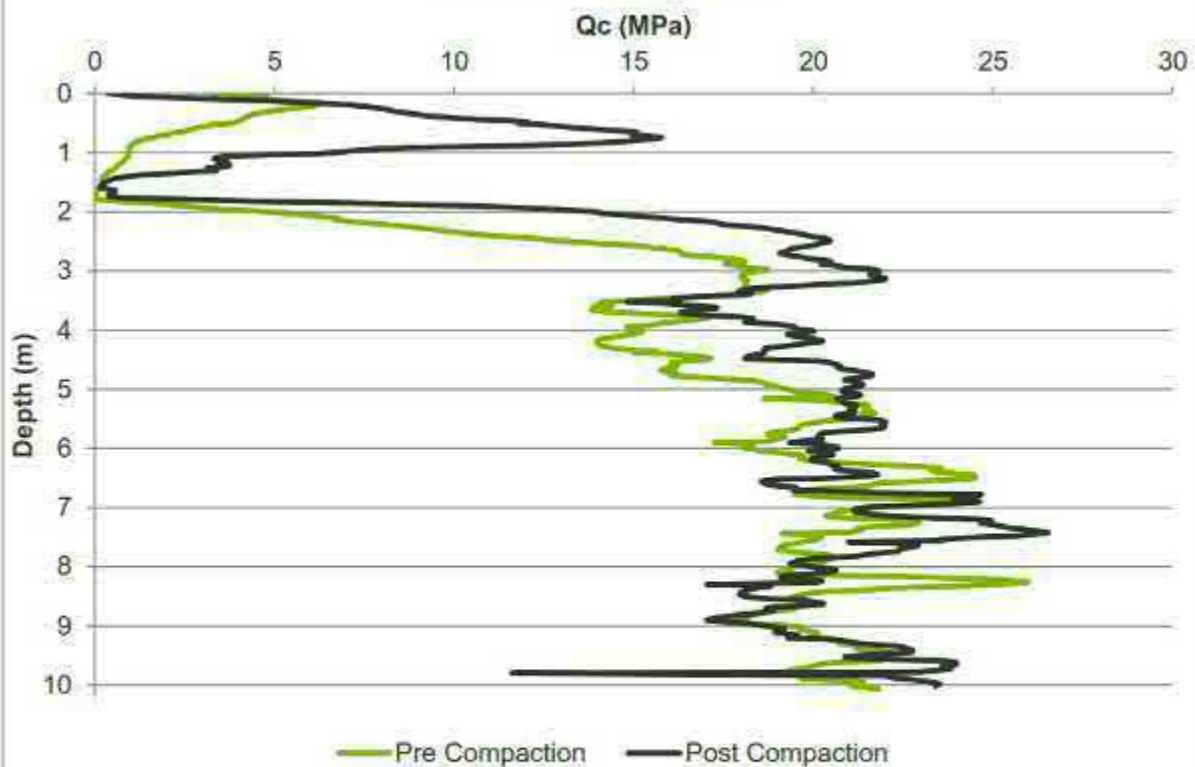
CPT609 - Qc Comparison

Pre & Post Compaction



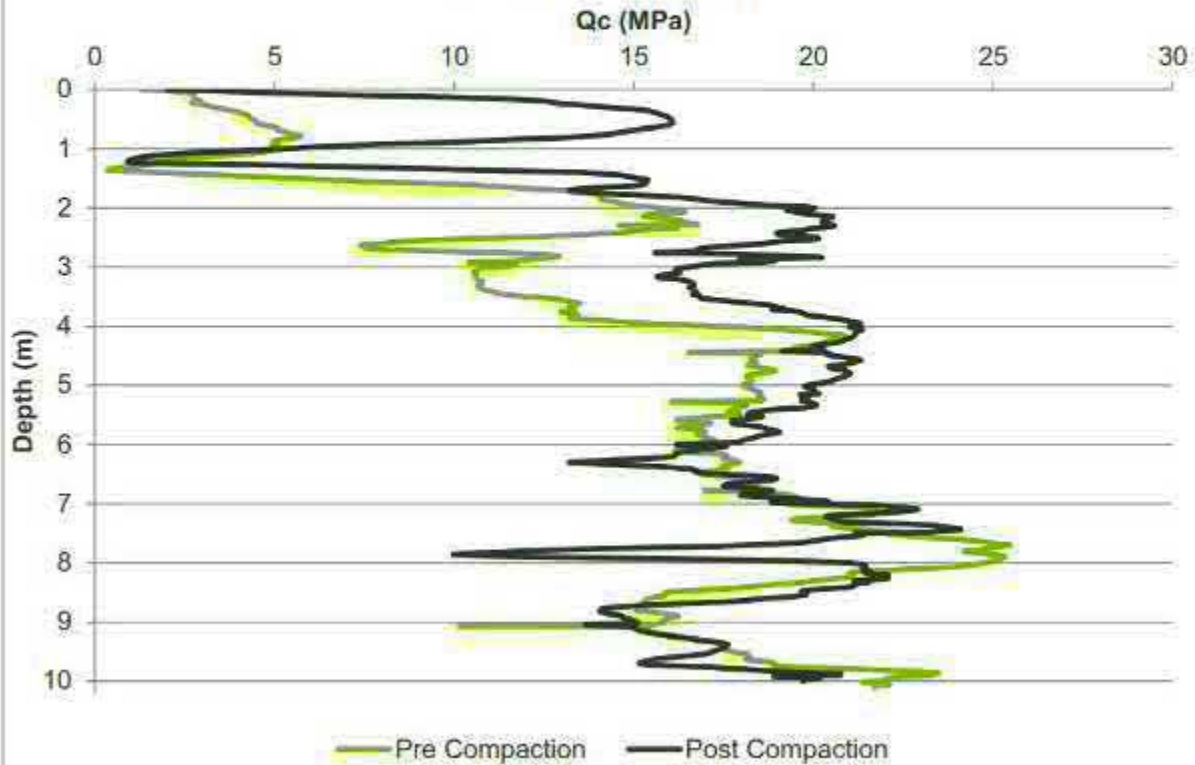
CPT611 - Qc Comparison

Pre & Post Compaction



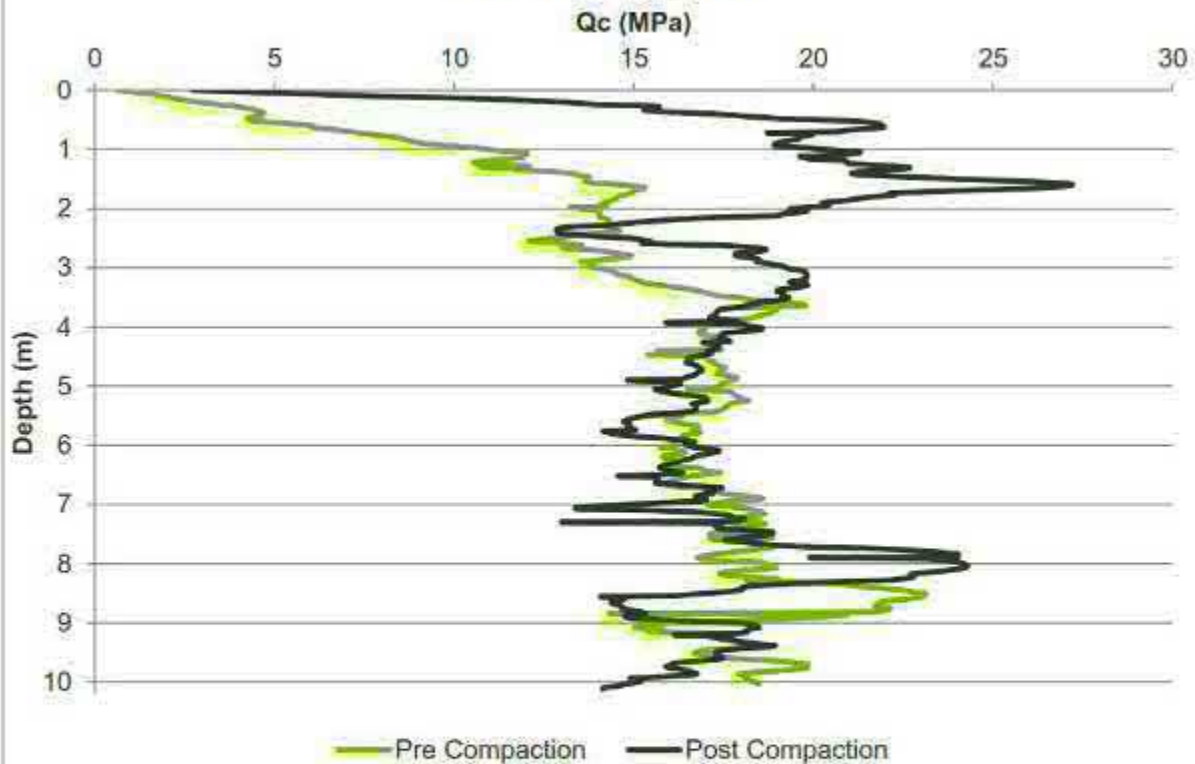
CPT613 - Qc Comparison

Pre & Post Compaction



CPT644 - Qc Comparison

Pre & Post Compaction

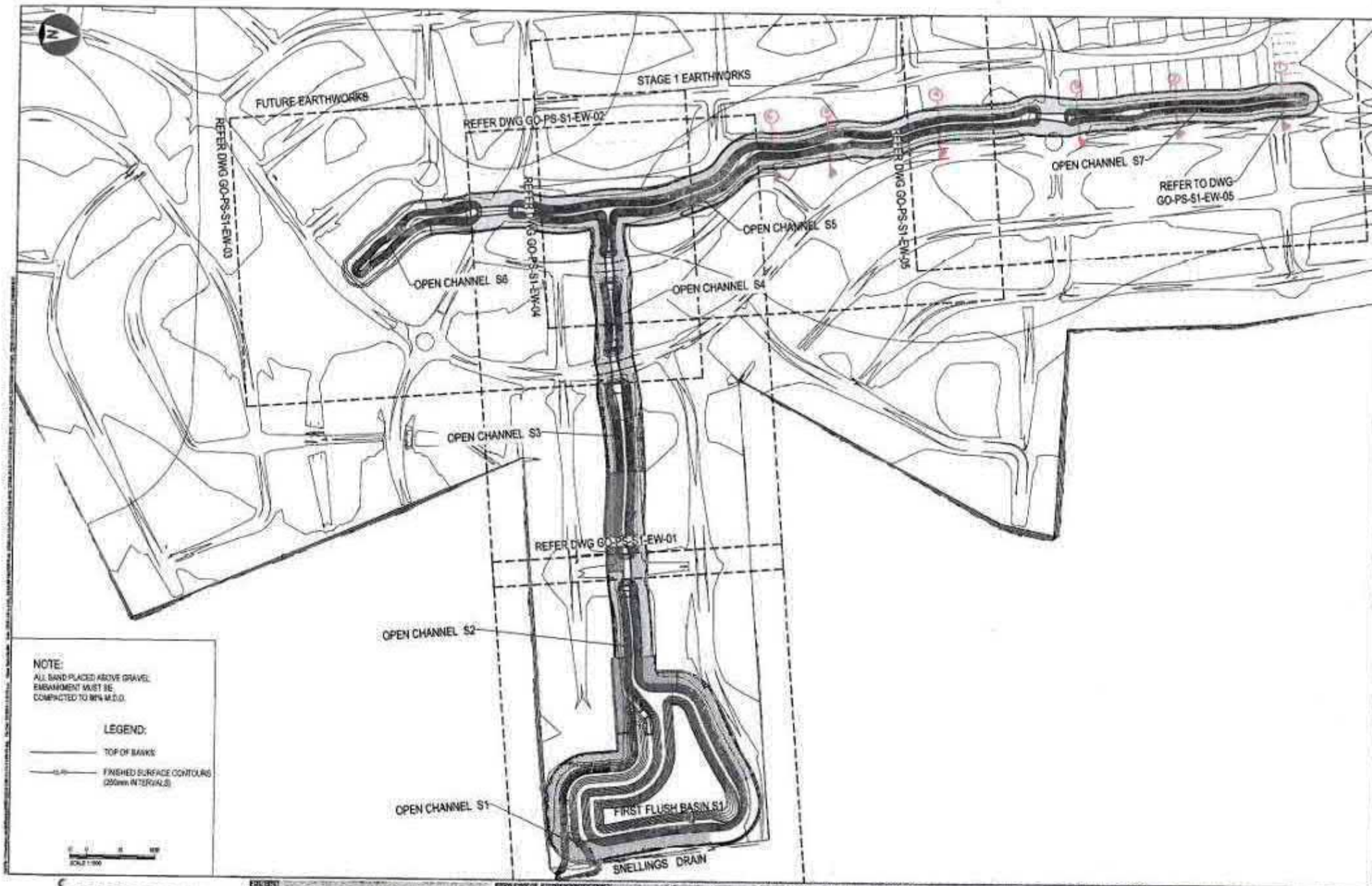


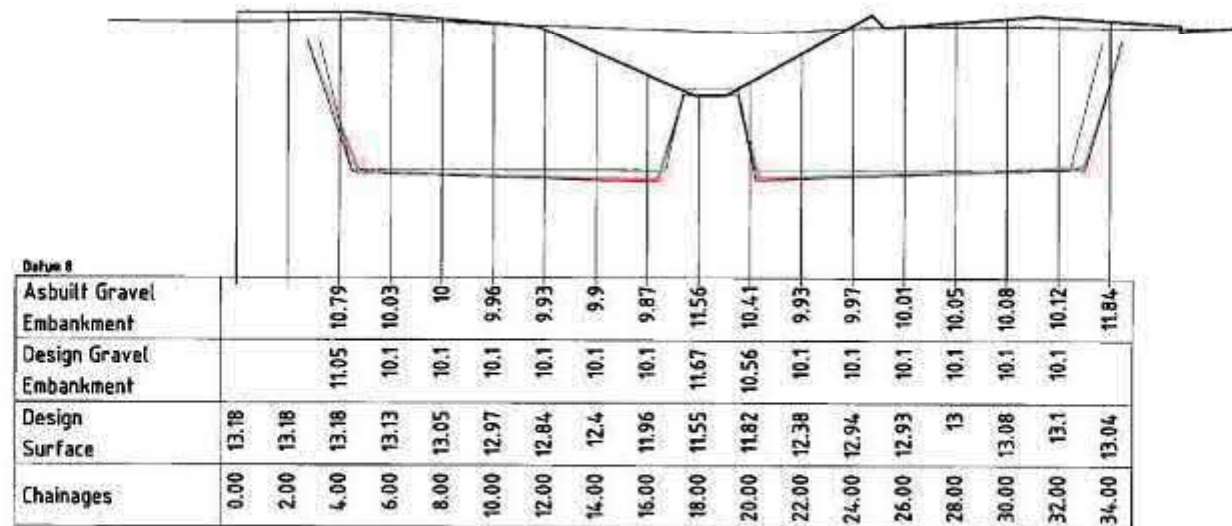


Appendix F

Gravel Embankment

Asbuilts

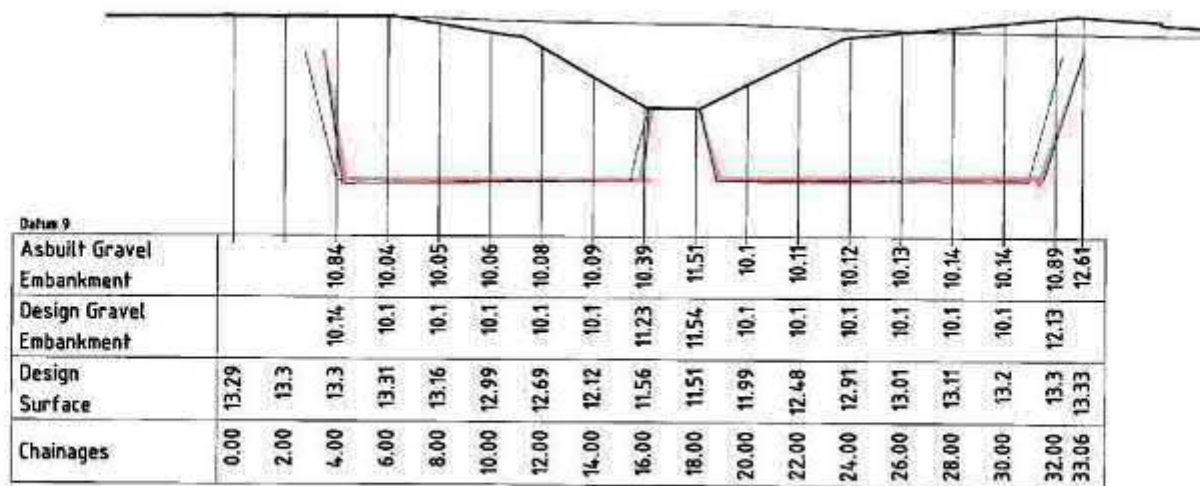




AB EW 150330 EMBANKMENT SUBGRADE SECTIONS->Section 1

HORIZONTAL 1:200

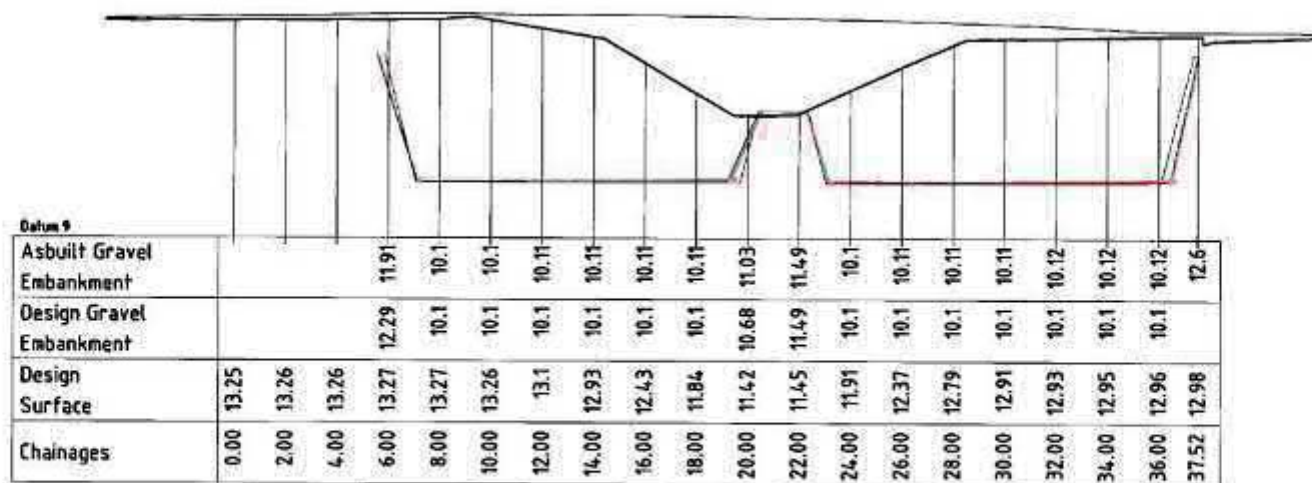
VERTICAL 1:100



AB EW 150330 EMBANKMENT SUBGRADE SECTIONS->Section 2

HORIZONTAL 1:200

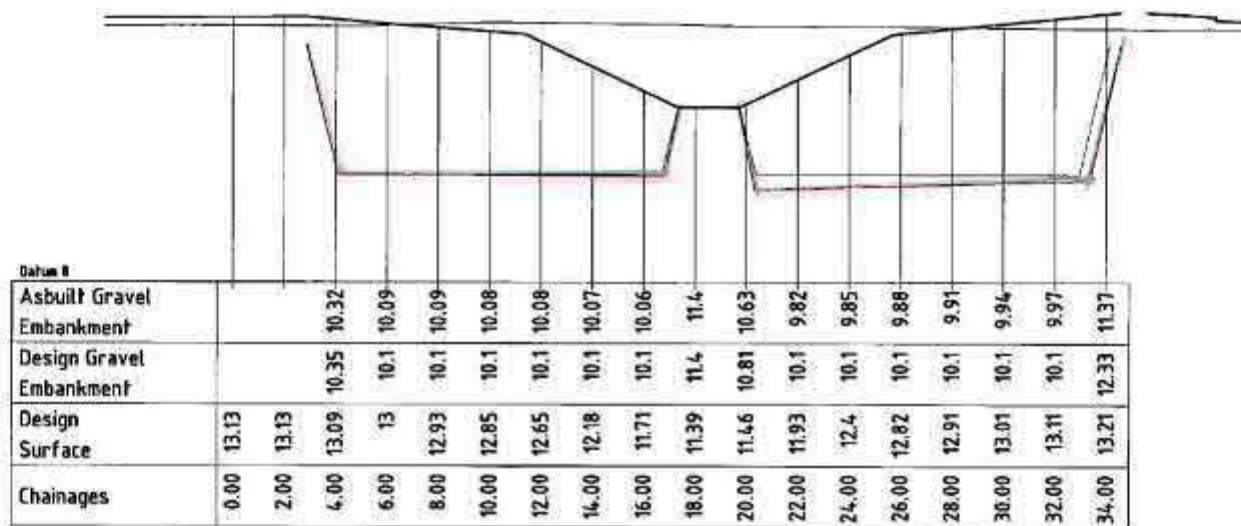
VERTICAL 1:100



AB EW 150330 EMBANKMENT SUBGRADE SECTIONS->Section 3

HORIZONTAL 1:200

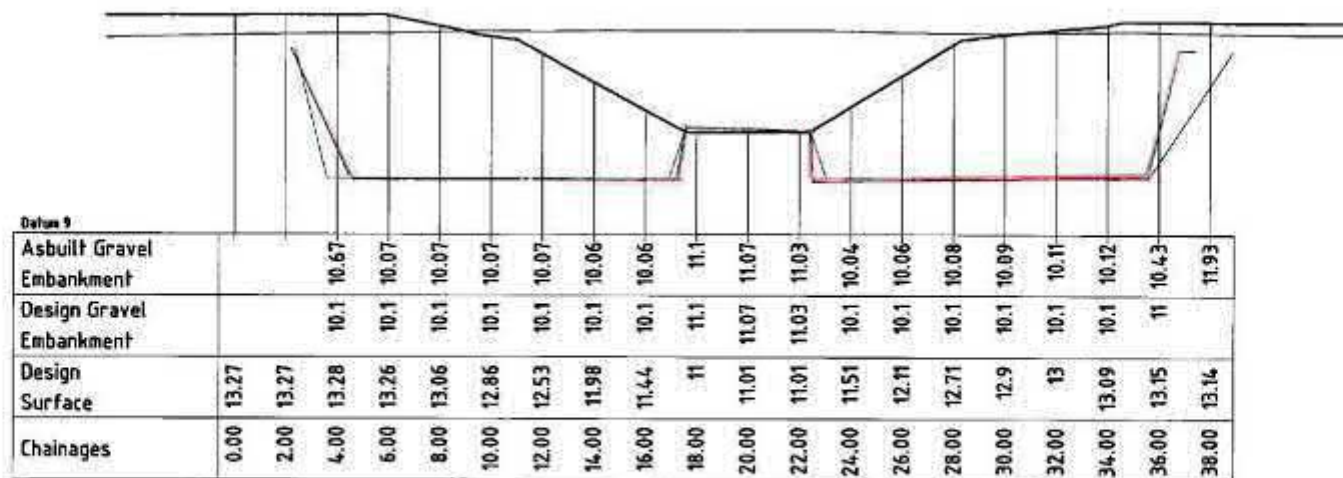
VERTICAL 1:100



AB EW 150330 EMBANKMENT SUBGRADE SECTIONS->Section 4

HORIZONTAL 1:200

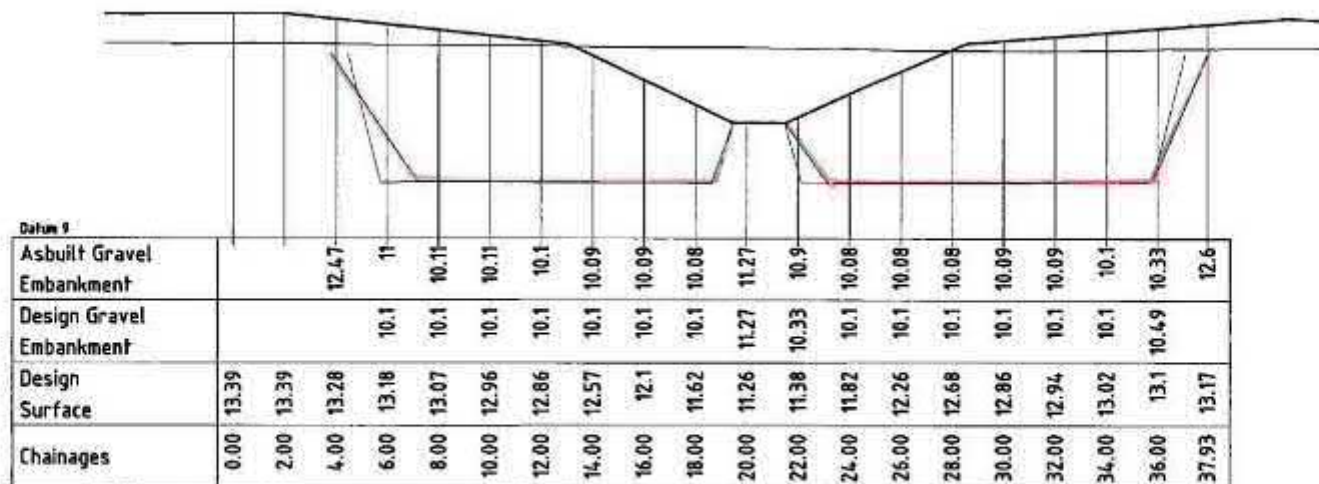
VERTICAL 1:100



AB EW 150330 EMBANKMENT SUBGRADE SECTIONS->Section 5

HORIZONTAL 1:200

VERTICAL 1:100



AB EW 150330 EMBANKMENT SUBGRADE SECTIONS->Section 6

HORIZONTAL 1:200

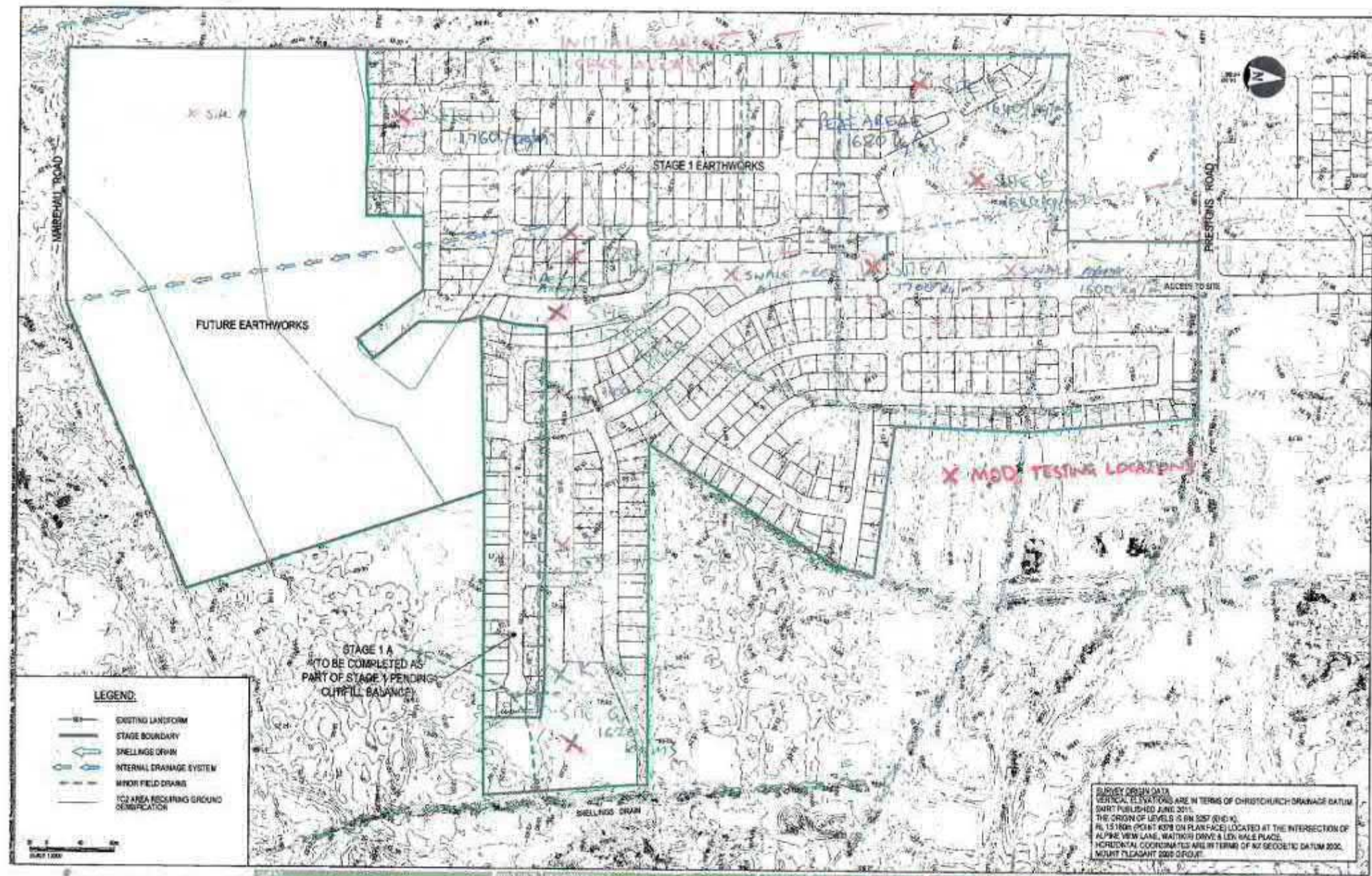
VERTICAL 1:100



Appendix G

Compaction Curves

Master copy



SURVEY DATA
VERTICAL ELEVATIONS ARE IN TERMS OF CHRISTCHURCH DRAINAGE DATUM
DAUM PUBLISHED JUNE 2011.
THE CROWN OF LEVEL 5 PM 307 (RHS) IS
AT 1510MM POINT KITE ON PLAINFACE LOCATED AT THE INTERSECTION OF
ALPINE VIEW LANE, WAITOKI DRIVE & LEX HALL PLACE.
HORIZONTAL COORDINATES ARE IN TERMS OF NZ GEODETIC DATUM 2000.
MOUNT PLEASANT 2000 DATUM.

aurecon
www.aurecongroup.com

CDL LAND
NEW ZEALAND LIMITED

DESIGNED FOR CONSTRUCTION

KASHBY

LOVELL LANE S HASSARD
W HILL
KASHBY DATE
KASHBY

PRESTONS SOUTH
EARTHWORKS STAGE 1
EXISTING LANDFORM

CONSTRUCTION
235361
1:200 @ A1
LD-PS-S1-EW-01 1

Test Report

Client: K.B. Contracting & Quarries Limited
Address: PO Box 19746, Woolston, Christchurch 8241
Client Ref: Not Advised
Job Location: New Quarry
Material: Pit run
Material Source: KB's Quarries McLeans Island

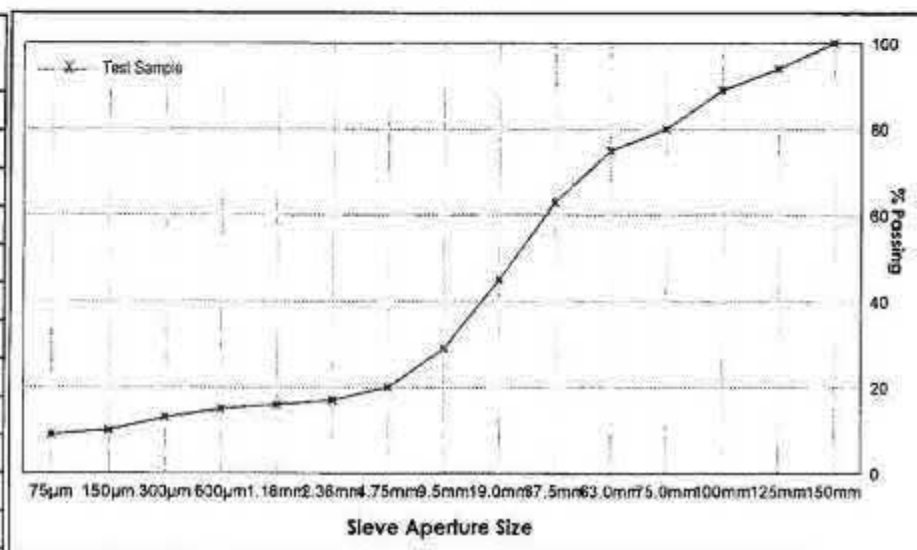
Sample Date: 11-Oct-2013 11:00
Sampled By: Declan McGowan
Laboratory No: C13/2221
Report No: 158619
Report Date: 18-Oct-2013
Replacement
Page 1 of 1

This report supersedes and replaces Report No: 158610

Test Methods: 1 The Particle-Size Distribution - Preferred Method by Wet Sieving

NZS 4407:1991 Test 3.8.1

Sieve Size (BSS)	Percent passing	Specification
125mm	94	
100mm	89	
75.0mm	80	
63.0mm	75	
37.5mm	63	
19.0mm	45	
9.5mm	29	
4.75mm	20	
2.36mm	17	
1.18mm	16	
600µm	15	
300µm	13	
150µm	10	
75µm	9	



Test Date:

14/10/2013

Notes

Test results apply to sample as received.
Percent passing finest sieve obtained by difference.
Sample received in a damp condition.
Date of sample receipt: 11-Oct-13

Craig Kelly
Approved Signatory
Laboratory Technician
IANZ Accreditation No: 439
Date of Issue: 10/04/92

C. Kelly

IANZ
ACCREDITED LABORATORY

All tests reported herein have been performed in accordance with the laboratory's scope of accreditation. This report may not be reproduced except in full.

Report No: MDD:CAN14S-12828
Issue No: 1

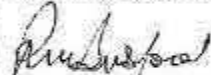
Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

The test (s) reported herein (unless otherwise indicated) have been performed in accordance with the laboratory's scope of accreditation. This report may only be reproduced in full.

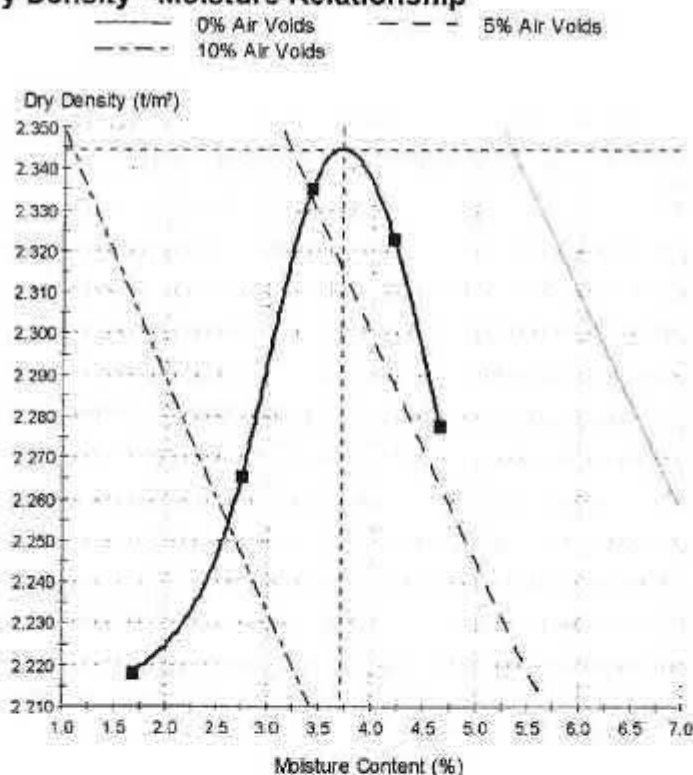
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No:200
Date of Issue: 25/06/14

Sample Details

Sample ID: CAN14S-12828
Material: Pit Run
Site/Sampled From: KB's McLeans Island Quarry
Specification: No Specification (Coarse)
Sampling Method: Stated to be NZS 4407:1991 2.4.6.2.1
Technician: Greg Orr

Client Sample ID: Lab Ref 1381/14
Sample Source: Field Sample [Taken From Site]
Date Sampled: 20/06/2014
Sampled By: Advised - See Comments
Date Tested: 25/06/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 2.34
Optimum Moisture Content (%): 3.8
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 12
Sample History: Natural

Comments

Sampled by C Gould

Test Report

Client: K.B. Contracting & Quarries Limited
Address: PO Box 19746, Woolston, Christchurch 8241
Client Ref: Not Advised
Job Location: New Quarry
Material: Pit run
Material Source: KB's Quarries McLeans Island

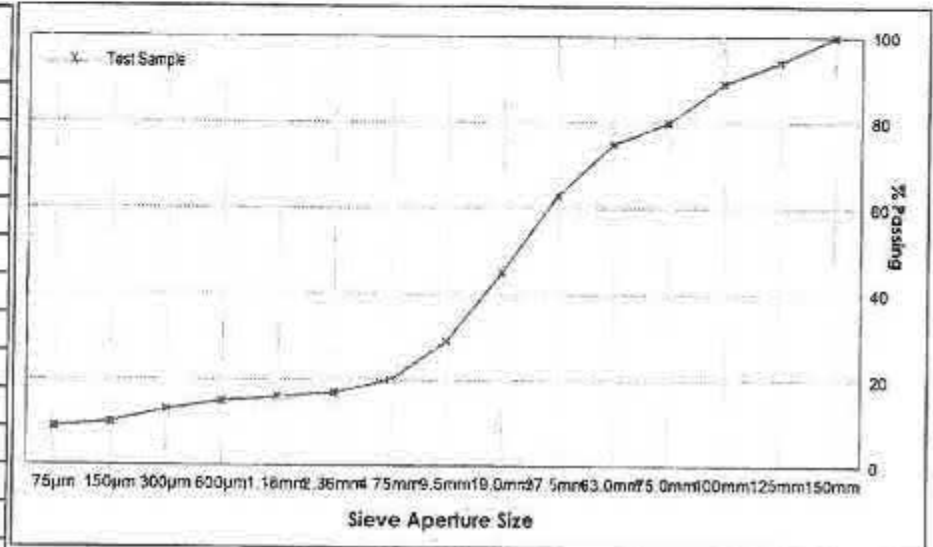
Sample Date: 11-Oct-2013 **11.00**
Sampled By: Declan McGowan
Laboratory No: C13/2221
Report No: 158619
Report Date: 18-Oct-2013
Replacement
Page 1 of 1

This report supersedes and replaces Report No: 158610

Test Methods: 1 The Particle-Size Distribution - Preferred Method by Wet Sieving

NZS 4407:1991 Test 3.8.1

Sieve Size (BSS)	Percent passing	Specification
125mm	94	
100mm	89	
75.0mm	80	
63.0mm	75	
37.5mm	63	
19.0mm	45	
9.5mm	29	
4.75mm	20	
2.36mm	17	
1.18mm	16	
600µm	15	
300µm	13	
150µm	10	
75µm	9	



Test Date:

14/10/2013

Notes

Test results apply to sample as received.
Percent passing finest sieve obtained by difference.
Sample received in a damp condition.
Date of sample receipt: 11-Oct-13

Craig Kelly
Approved Signatory
Laboratory Technician
IANZ Accreditation No: 439
Date of Issue: 10/04/92

C. Kelly

IANZ
ACCREDITED LABORATORY

All tests reported herein have been performed in accordance with the laboratory's scope of accreditation. This report may not be reproduced except in full.

Report No: MDD:CAN14S-12828
Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

The test (s) reported herein (unless otherwise indicated) have been performed in accordance with the laboratory's scope of accreditation. This report may only be reproduced in full.



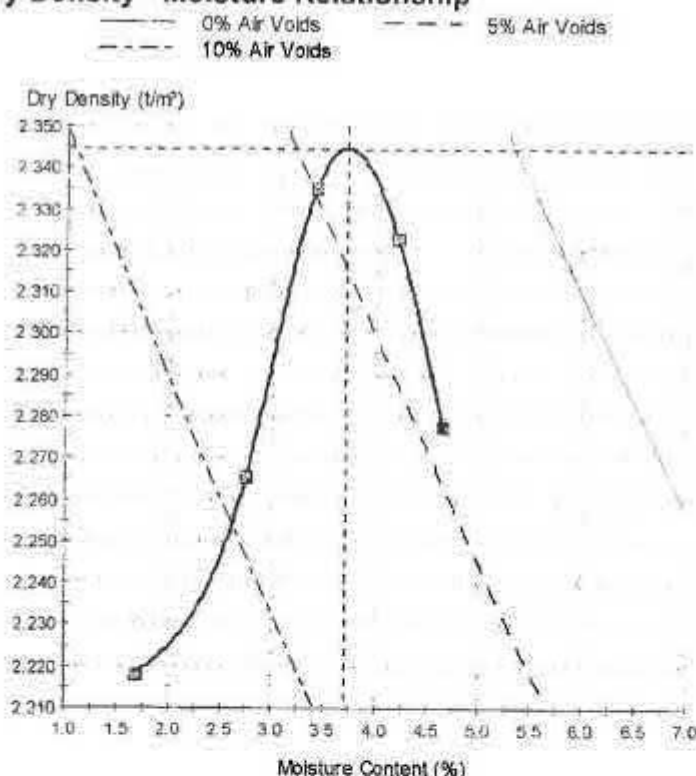
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No:200
Date of Issue: 25/06/14

Sample Details

Sample ID: CAN14S-12828
Material: Pit Run
Site/Sampled From: KB's McLeans Island Quarry
Specification: No Specification (Coarse)
Sampling Method: Stated to be NZS 4407:1991 2.4.6.2.1
Technician: Greg Orr

Client Sample ID: Lab Ref 1381/14
Sample Source: Field Sample [Taken From Site]
Date Sampled: 20/06/2014
Sampled By: Advised - See Comments
Date Tested: 25/06/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 2.34
Optimum Moisture Content (%): 3.8
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 12
Sample History: Natural

Comments

Sampled by: C Gould



Report No: MDD:CAN14S-11472

Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
 City Care Limited
 PO Box 7669
 Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

The test (s) reported herein (unless otherwise indicated) have been performed in accordance with the laboratory's scope of accreditation. This report may only be reproduced in full.



Max Burford

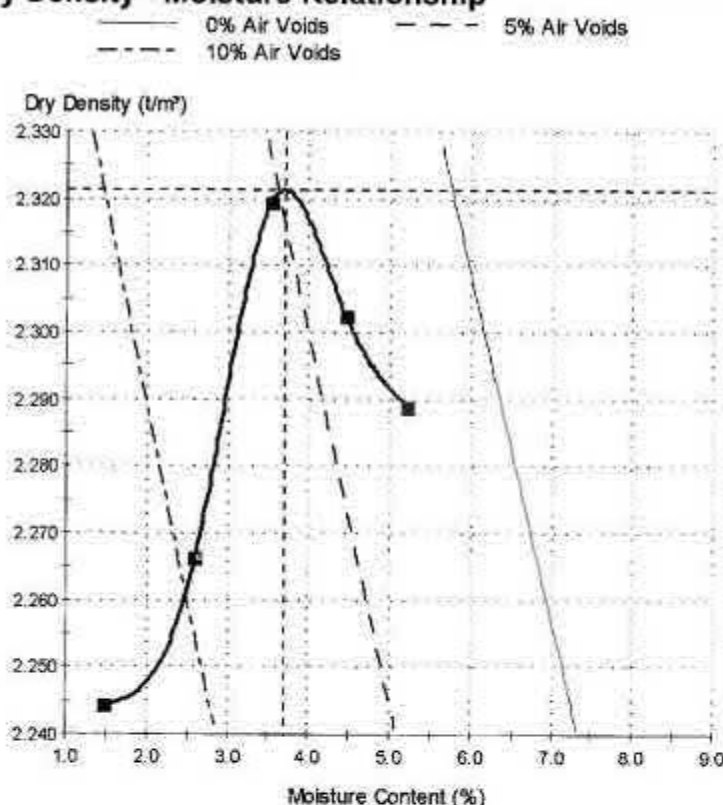
Approved Signatory: Max Burford
 (Supervisor)
 IANZ Accreditation No: 200
 Date of Issue: 03/06/14

Sample Details

Sample ID: CAN14S-11472
Material: Pit Run
Site/Sampled From: KB Quarry Scalped over 53mm
Specification: No Specification
Sampling Method: Stated to be NZS 4407:1991 2.4.6.2.2
Technician: Greg Orr

Client Sample ID: 953081
Sample Source: Miscellaneous Material Source
Date Sampled: 29/05/2014
Sampled By: Advised - See Comments
Date Tested: 03/06/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 2.32
Optimum Moisture Content (%): 3.6
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 14
Sample History: Natural

Comments

Sampled by Toni O'Regan

PIT RUN - MCLEANS ISLAND



Canterbury Laboratory

325 Pound Rd, Yaldhurst, Christchurch
PO Box 16-064, Christchurch 8441
Telephone: +64 3 349 9142
Facsimile: +64 3 349 9143
www.fultonhogan.com
0800 LABORATORY

Report No: MDD:CAN14S-12828

Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

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Max Burford

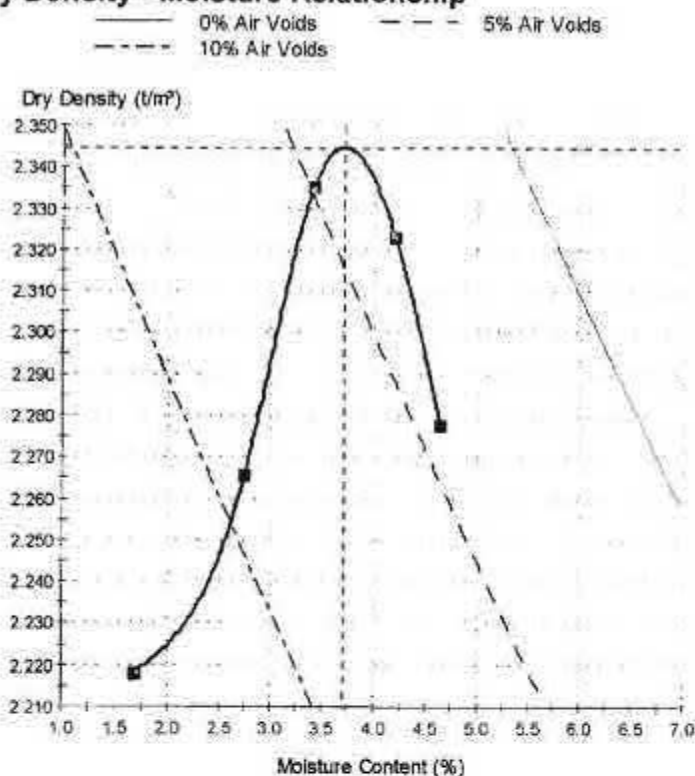
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No:200
Date of Issue: 25/06/14

Sample Details

Sample ID: CAN14S-12828
Material: Pit Run
Site/Sampled From: KB's McLeans Island Quarry
Specification: No Specification (Coarse)
Sampling Method: Stated to be NZS 4407:1991 2.4.6.2.1
Technician: Greg Orr

Client Sample ID: Lab Ref 1381/14
Sample Source: Field Sample [Taken From Site]
Date Sampled: 20/06/2014
Sampled By: Advised - See Comments
Date Tested: 25/06/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 2.34
Optimum Moisture Content (%): 3.8
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 12
Sample History: Natural

Comments

Sampled by C Gould

Test Report

Client: K.B. Contracting & Quarries Limited
Address: PO Box 19746, Woolston, Christchurch 8241
Client Ref: Not Advised
Job Location: New Quarry
Material: Pit run
Material Source: KB's Quarries McLeans Island

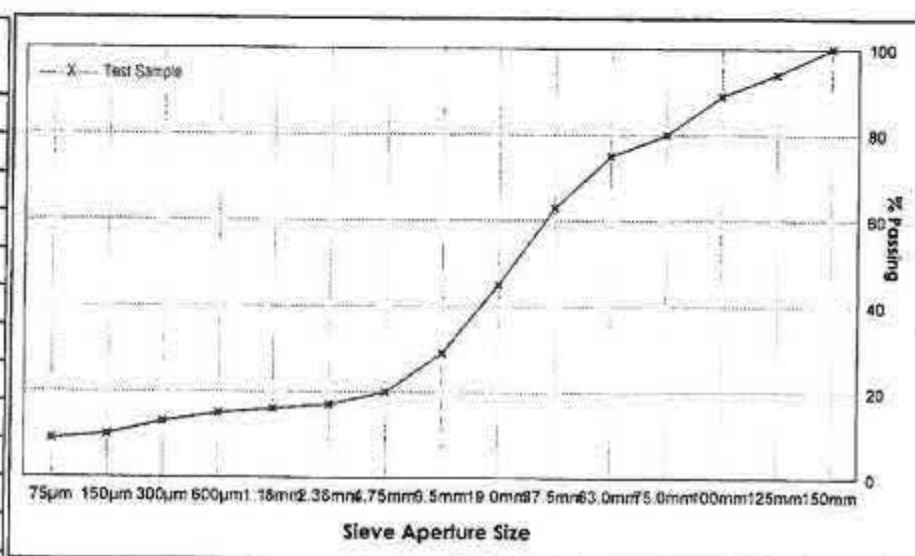
Sample Date: 11-Oct-2013 11:00
Sampled By: Declan McGowan
Laboratory No: C13/2221
Report No: 158619
Report Date: 18-Oct-2013
Replacement
Page 1 of 1

This report supersedes and replaces Report No: 158610

Test Methods: 1 The Particle-Size Distribution - Preferred Method by Wet Sieving

NZS 4407:1991 Test 3.8.1

Sieve Size (BSS)	Percent passing	Specification
125mm	94	
100mm	89	
75.0mm	80	
63.0mm	75	
37.5mm	63	
19.0mm	45	
9.5mm	29	
4.75mm	20	
2.36mm	17	
1.18mm	16	
600µm	15	
300µm	13	
150µm	10	
75µm	9	



Test Date:

14/10/2013

Notes

Test results apply to sample as received.
Percent passing finest sieve obtained by difference.
Sample received in a damp condition.
Date of sample receipt: 11-Oct-13

Craig Kelly
Approved Signatory
Laboratory Technician
IANZ Accreditation No: 439
Date of Issue: 10/04/92

C. Kelly

IANZ
ACCREDITED LABORATORY

All tests reported herein have been performed in accordance with the laboratory's scope of accreditation. This report may not be reproduced except in full.

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

The test (s) reported herein (unless otherwise indicated) have been performed in accordance with the laboratory's scope of accreditation. This report may only be reproduced in full.



Max Burford

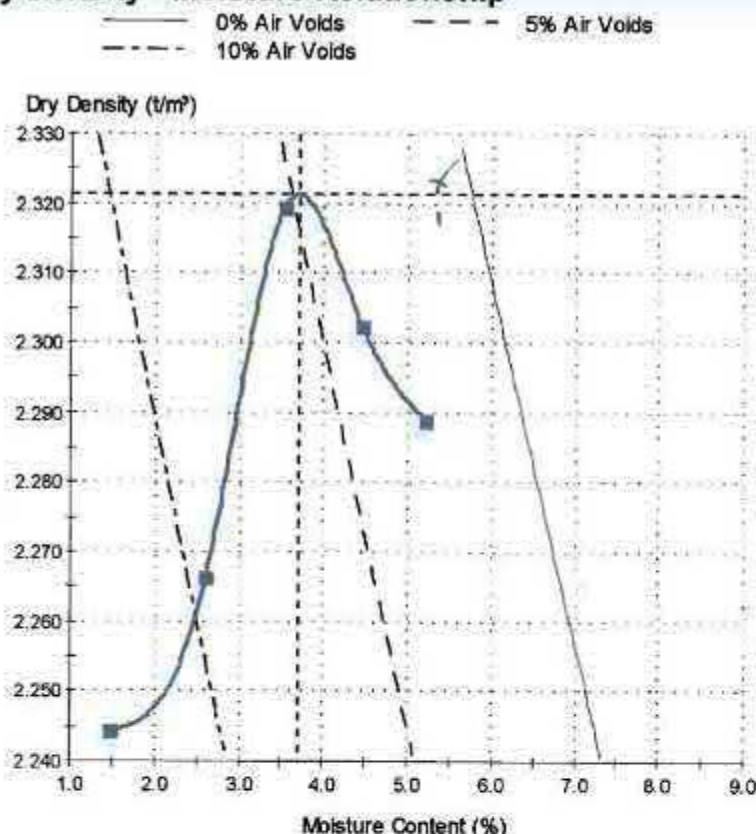
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No:200
Date of Issue: 03/06/14

Sample Details

Sample ID: CAN14S-11472
Material: Pit Run
Site/Sampled From: KB Quarry Scalped over 53mm
Specification: No Specification
Sampling Method: Stated to be NZS 4407:1991 2.4.6.2.2
Technician: Greg Orr

Client Sample ID: 953081
Sample Source: Miscellaneous Material Source
Date Sampled: 29/05/2014
Sampled By: Advised - See Comments
Date Tested: 03/06/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

____ NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 2.32
Optimum Moisture Content (%): 3.6
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 14
Sample History: Natural

Comments

Sampled by Toni O'Regan

1947

Nuclear Density Test – Backscatter

Nuclear Density Test (NZS 4407:1991 Test 4.2.2)

Lab Reference: 1601 114
(Test Number / Year)

Material: PIT RUN MCLEANS ISLAND Gauge Used: 65636
Location: CDL PRESTONS WEST SIDE LIFT II
Client: KBS Contact Name: A HODGSON
Tested By: L.S Date of Test: 11-7-14 Count Time: Fast (Normal) Slow

Minimum PPE Required: Hard Hat ☒ Safety Glasses ☒ Gloves Carried ☒ Hi Vis ☒ Sun Protection ☒

Familiar with City Care Health and Safety Plan: ☒

1. All Worksites

7. Laboratory

30. All Vehicles and Plant

4. Office Work

(Eliminate / Isolate / Minimise) Any Site Specific Hazards and controls taken? (Sign into site, working plant, traffic etc.)

PLATEAU TEST

Target Density: 2340 Lab Ref: Date of Issue:

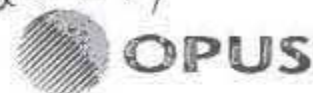
Moisture Standard: 693 Density Standard: 2313

[illegible]

Notes:

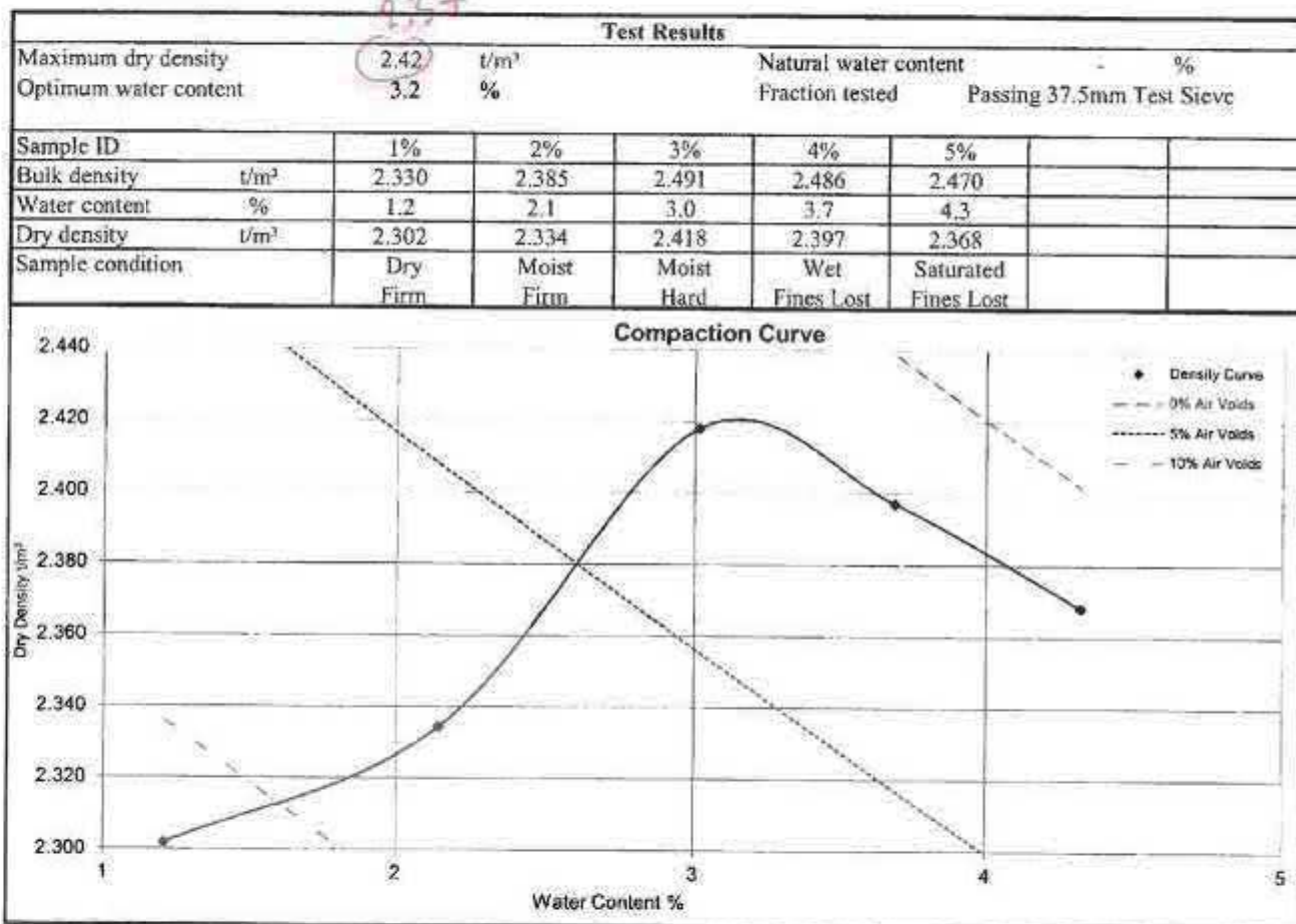
PIT RUN - MINORS
QUARRY

**DRY DENSITY / WATER CONTENT RELATIONSHIP
VIBRATING COMPACTION**



Project : Quality Assurance
Location : Prestons Road Subdivision
Client : Coffey Geotechnical
Contractor : Not Advised
Sampled by : S Gardner
Date sampled : 11 June 2014
Sampling method : Not Advised
Sample description : Pit Run
Sample condition : Damp as Received
Solid density : 2.68 t/m³ (Assumed)
Source : Prestons Road-KB's Quarries

Project No : 6-JCOFF.14/6LC
Lab Ref No : 13379
Client Ref No : A Wills



Test Methods	Notes
Compaction NZS 4402 : 1986 : Test 4.1.3	

Date tested : 13 June 2014
Date reported : 19 June 2014

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
This report may only be reproduced in full

IANZ Approved Signatory

[Signature]

Designation : Senior Civil Engineering Technician
Date : 19 June 2014



Tests indicated as not accredited are outside the scope of the laboratory's accreditation

Report No: MDD:CAN14S-22802
Issue No: 1

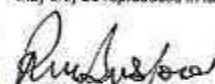
Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

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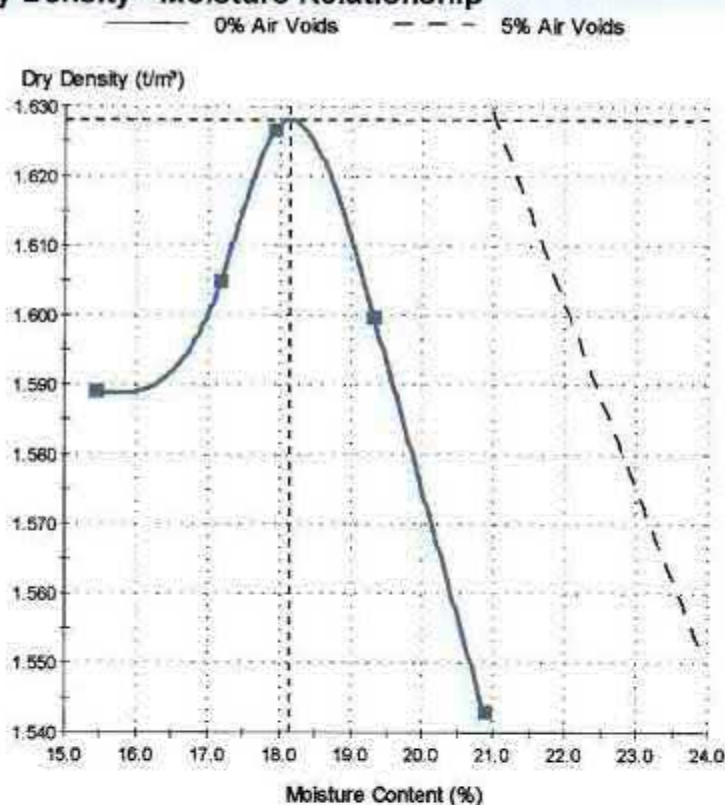
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No:200
Date of Issue: 07/11/14

Sample Details

Sample ID: CAN14S-22802
Material: BEACH SAND
Site/Sampled From: Ex CDL Prestons Road Lot 3096
Specification: No Specification
Sampling Method: As Received - Not Accredited
Technician: Max Burford

Client Sample ID: Lab Ref 2685/14
Sample Source: Field Sample [Taken From Site]
Date Sampled: 30/10/2014
Sampled By: Advised - See Comments
Date Tested: 07/11/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

———— NZS 4402:1986 Test 4.1.3 - 1986

Maximum Dry Density (t/m³): 1.62
Optimum Moisture Content (%): 18
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

Sampled by Toni O'Regan

PEAT AREA C

Canterbury Laboratory

325 Pound Rd, Yaldhurst, Christchurch
PO Box 16-064, Christchurch 8441
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0800 LABORATORY



Report No: MDD:CAN14S-12043

Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7869
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

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Max Burford

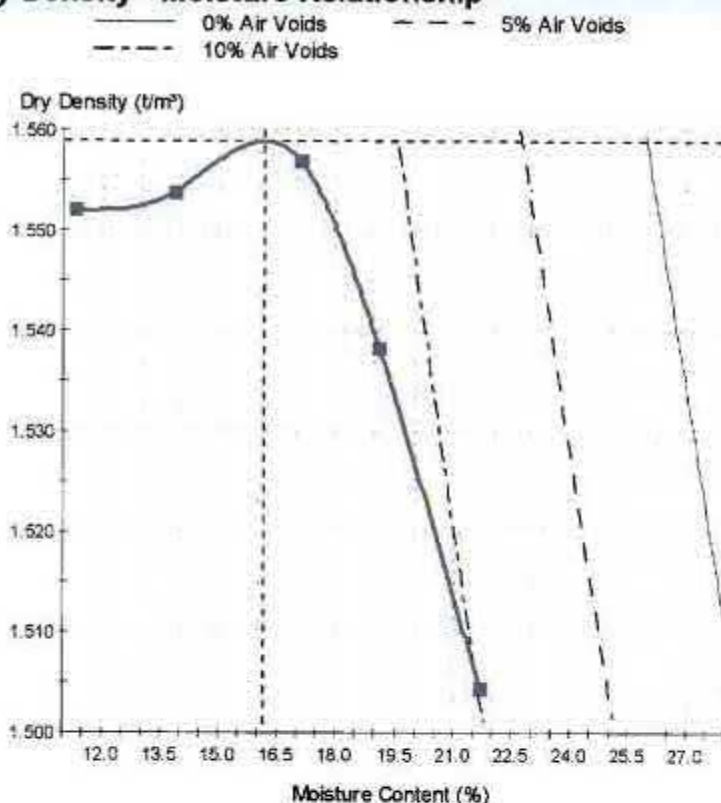
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No: 200
Date of Issue: 11/06/14

Sample Details

Sample ID: CAN14S-12043
Material: BEACH SAND
Site/Sampled From: CDL Prestons Rd Peat Area C
Specification: No Specification
Sampling Method: As Received - Not Accredited
Technician: Daniel Daly

Client Sample ID: Lab Ref 1322/14
Sample Source: Field Sample [Taken From Site]
Date Sampled: 06/06/2014
Sampled By: Not Advised
Date Tested: 11/06/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.56
Optimum Moisture Content (%): 16
Solid Density (t/m³): 2.62 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

Material is beach sand with a trace of organic

Report No: MDD:CAN14S-08017
Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

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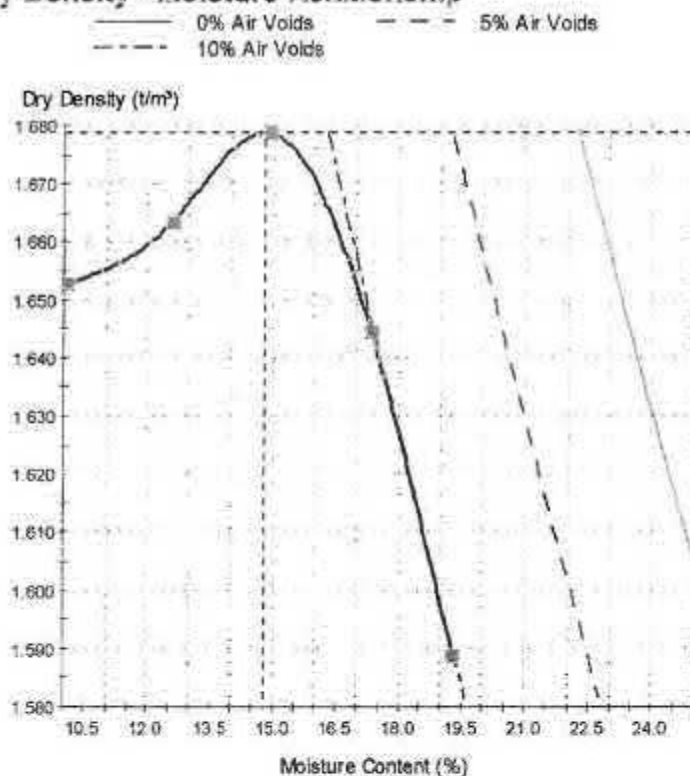
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No 200
Date of Issue: 11/04/14

Sample Details

Sample ID: CAN14S-08017
Material: BEACH SAND
Site/Sampled From: CDL Prestons Road, Peat Area E
Specification: No Specification
Sampling Method: As Received - Not Accredited
Technician: Greg Orr

Client Sample ID: 0830/14 - MF, LS
Sample Source: Field Sample [Taken From Site]
Date Sampled: 02/04/2014
Sampled By: Mark Foster
Date Tested: 11/04/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.68
Optimum Moisture Content (%): 15
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

Material is best described as FINE SAND with some medium sand and rare silt
23% medium sand with 72% FINE SAND and 5% silt

Report No: MDD:CAN14S-05060
Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7668
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

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Max Burford

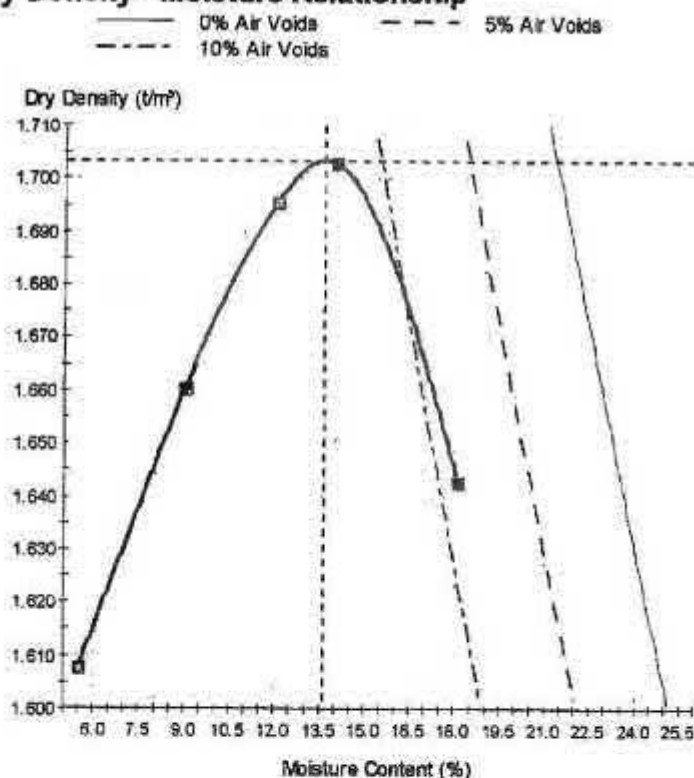
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No: 200
Date of Issue: 06/03/14

Sample Details

Sample ID: CAN14S-05060
Material: BEACH SAND
Site/Sampled From: Prestons Road Alpine V Site A
Specification: No Specification
Sampling Method: As Received - Not Accredited
Technician: Daniel Daly

Client Sample ID: 0428/14 Site A
Sample Source: Field Sample [Taken From Site]
Date Sampled: 25/02/2014
Sampled By: Advised - See Comments
Date Tested: 06/03/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.70
Optimum Moisture Content (%): 14
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

80% MEDIUM SAND 18% fine sand & 2% silt

Maximum Dry Density Report

Report No: MDD:CAN14S-05061
Issue No: 1
Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

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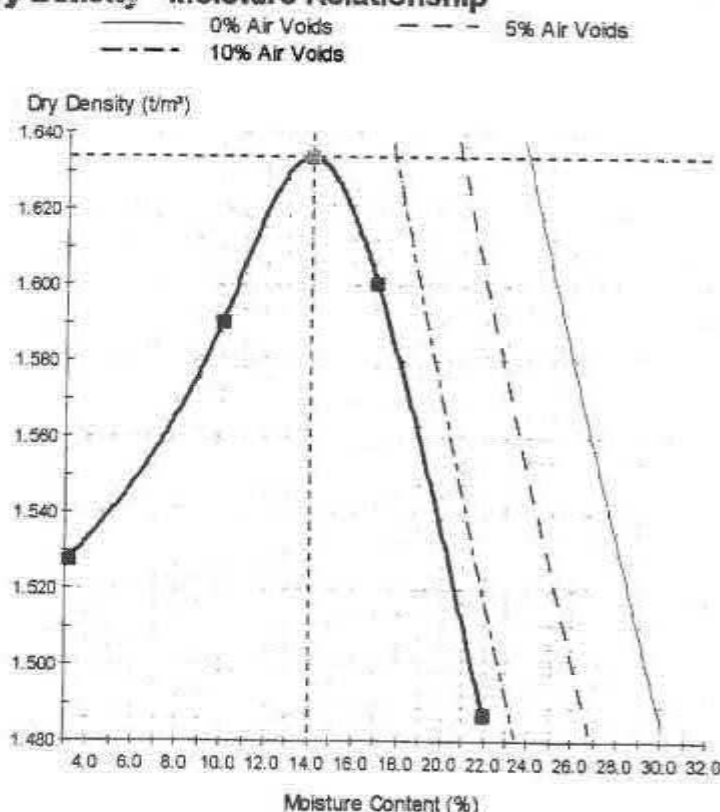
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No:200
Date of Issue: 06/03/14

Sample Details

Sample ID: CAN14S-05061
Material: BEACH SAND
Site/Sampled From: Prestons Road Alpine V Site B
Specification: No Specification
Sampling Method: As Received - Not Accredited
Technician: Daniel Daly

Client Sample ID: 0429/14 Site B
Sample Source: Field Sample [Taken From Site]
Date Sampled: 25/02/2014
Sampled By: Advised - See Comments
Date Tested: 06/03/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.64
Optimum Moisture Content (%): 14
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

50% MEDIUM SAND 46% fine sand & 4% silt



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Facsimile: +64 3 349 9143
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0800 LABORATORY

Report No: MDD:CAN14S-05062

Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

This test (as reported herein) (unless indicated) have been performed in accordance with the laboratory's scope of accreditation. Results only apply to samples as received. This report must be reproduced in full.



Max Burford

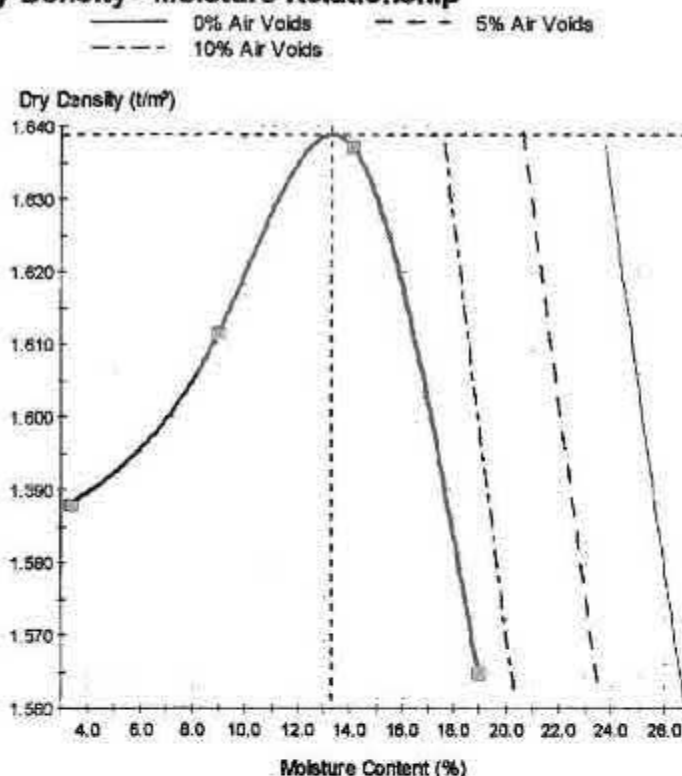
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No: 200
Date of Issue: 06/03/14

Sample Details

Sample ID: CAN14S-05062
Material: BEACH SAND
Site/Sampled From: Prestons Road Alpine V Site C
Specification: No Specification
Sampling Method: As Received - Not Accredited
Technician: Daniel Daly

Client Sample ID: 0430/14 Site C
Sample Source: Field Sample (Taken From Site)
Date Sampled: 25/02/2014
Sampled By: Advised - See Comments
Date Tested: 06/03/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.64
Optimum Moisture Content (%): 13
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

35% MEDIUM SAND 50% fine sand & 15% silt

Report No: MDD:CAN14S-08055
Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

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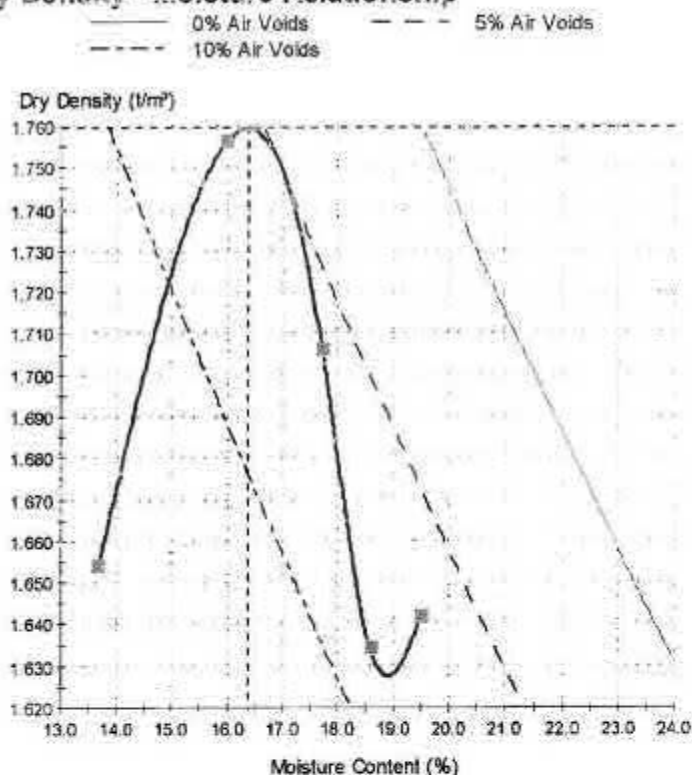

Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No 200
Date of Issue: 11/04/14

Sample Details

Sample ID: CAN14S-08055
Material: Silty Sand
Site/Sampled From: CDL Prestons Road Site D
Specification: No Specification
Sampling Method: As Received - Not Accredited
Technician: Greg Orr

Client Sample ID: 0826/14 - MF, LS
Sample Source: Miscellaneous Material Source
Date Sampled: 02/04/2014
Sampled By: Mark Foster
Date Tested: 11/04/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986

Maximum Dry Density (t/m^3):	1.76
Optimum Moisture Content (%):	16
Solid Density (t/m^3):	2.68 assumed
Fraction Tested Passes (mm):	37.5
Material Removed (%):	0
Sample History:	Natural

Comments

Material is best described as medium FINE SAND with some silt
1% coarse sand 29% medium sand with 50% FINE SAND and 20% silt

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

The test(s) reported herein (unless indicated) have been performed in accordance with the laboratory's scope of accreditation. Results only apply to samples as received. This report must be reproduced in full.



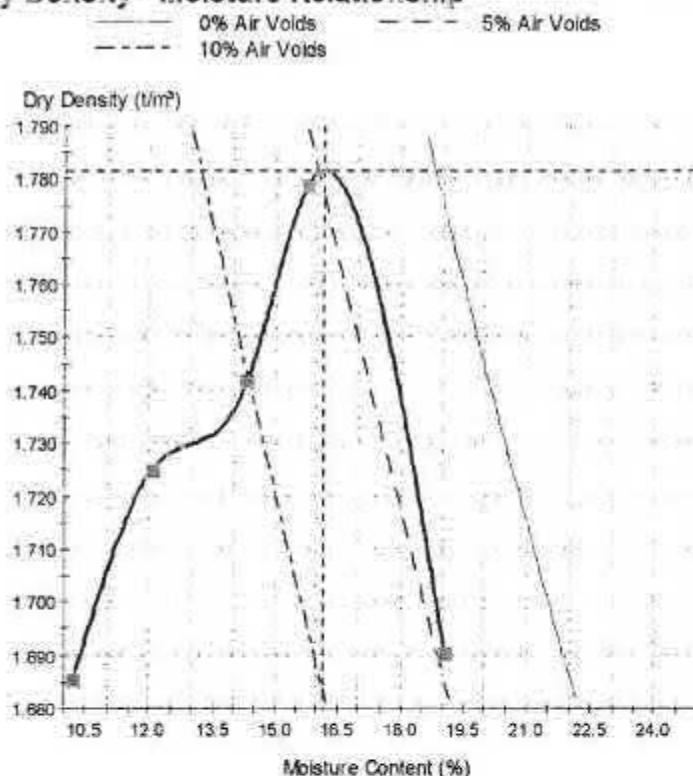
Max Burford
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No: 200
Date of Issue: 11/04/14

Sample Details

Sample ID: CAN14S-07948
Material: Silty Sand
Site/Sampled From: CDL Prestons Road, Site E
Specification: No Specification
Sampling Method: As Received - Not Accredited
Technician: Greg Orr

Client Sample ID: 0827/14 - MF, LS
Sample Source: Miscellaneous Material Source
Date Sampled: 02/04/2014
Sampled By: Mark Foster
Date Tested: 09/04/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.78
Optimum Moisture Content (%): 16
Solid Density (t/m³): 2.68
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

Material is best described as **silty FINE SAND**
30% silt and 70% fine sand

Report No: MDD:CAN14S-08057
Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

The test (s) reported herein (unless indicated) have been performed in accordance with the laboratory's scope of accreditation. Results only apply to samples as received. This report must be reproduced in full.

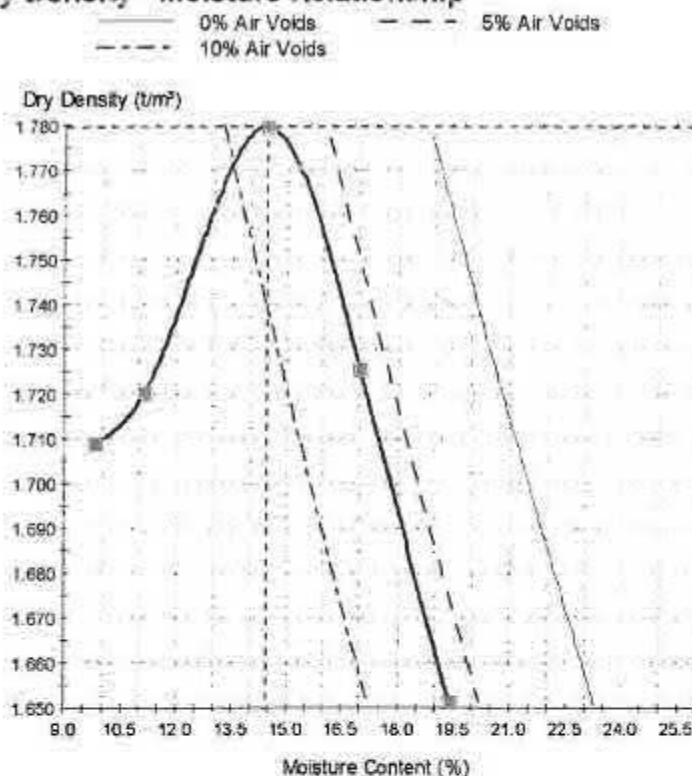

Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No: 200
Date of Issue: 11/04/14

Sample Details

Sample ID: CAN14S-08057
Material: Silty SAND
Site/Sampled From: CDL Prestons Road Site F
Specification: No Specification (Fine)
Sampling Method: As Received - Not Accredited
Technician: Greg Orr

Client Sample ID: 0828/14 - MF, LS
Sample Source: Field Sample [Taken From Site]
Date Sampled: 02/04/2014
Sampled By: Mark Foster
Date Tested: 11/04/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.78
Optimum Moisture Content (%): 14
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

Material is best described as silty FINE SAND
28% silt 70% fine sand and 2% medium sand

Report No: MDD:CAN14S-08006
Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7889
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

The test (s) reported herein (unless indicated) have been performed in accordance with the laboratory's scope of accreditation. Results only apply to samples as received. This report must be reproduced in full.


Max Burford

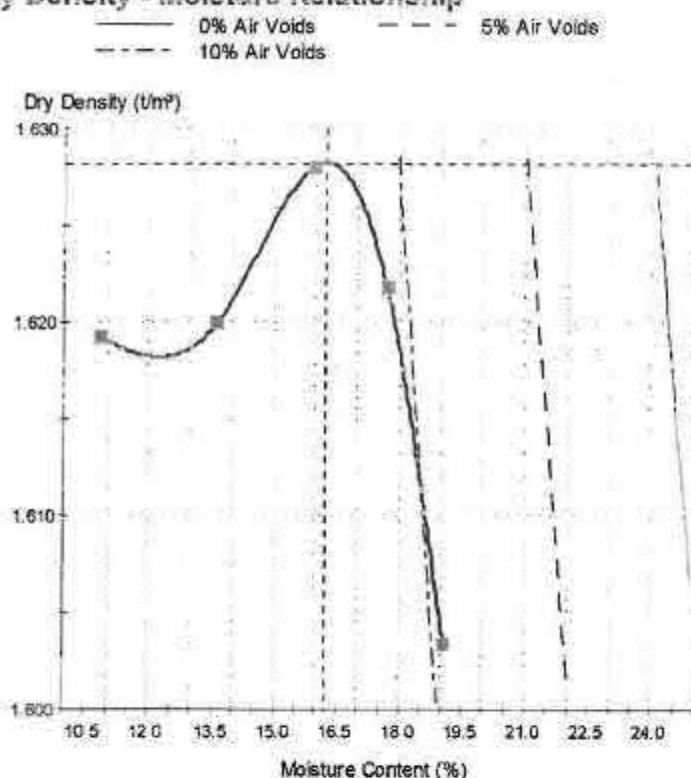
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No:200
Date of Issue: 11/04/14

Sample Details

Sample ID: CAN14S-08006
Material: BEACH SAND
Site/Sampled From: CDL Prestons Road, Site G
Specification: No Specification
Sampling Method: As Received - Not Accredited
Technician: Greg Orr

Client Sample ID: 0829/14 - MF, LS
Sample Source: Field Sample [Taken From Site]
Date Sampled: 02/04/2014
Sampled By: Mark Foster
Date Tested: 11/04/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.62
Optimum Moisture Content (%): 16
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

Material is best described as BEACH SAND
55% medium sand with 43% fine sand with 2% silt

Report No: MDD:CAN14S-25525
Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

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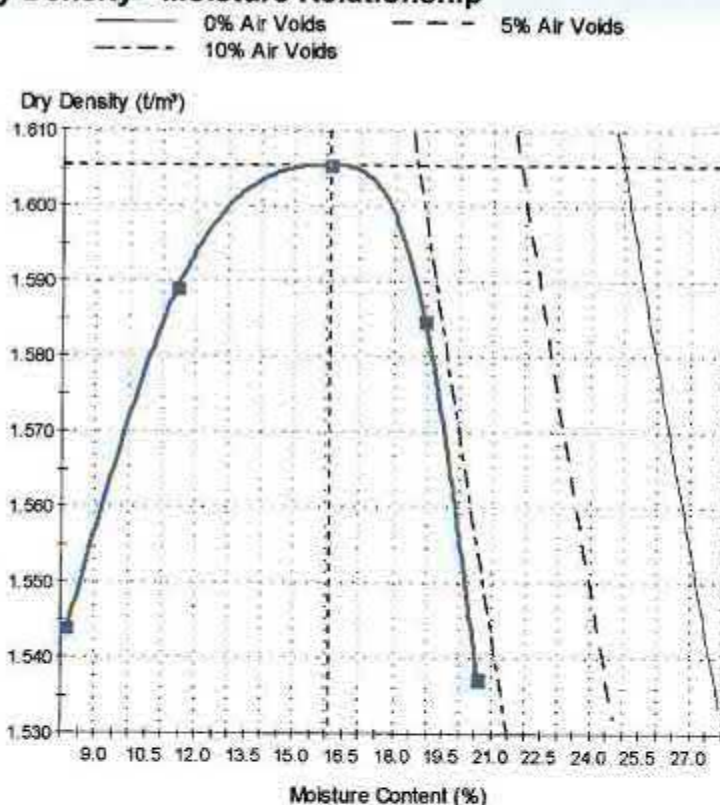

Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No:200
Date of Issue: 15/12/14

Sample Details

Sample ID: CAN14S-25525
Material: Sand
Site/Sampled From: Test Site #1
Specification: No Specification (Fine)
Sampling Method: Not Advised - Not Accredited
Technician: Marc Bos

Client Sample ID: 3092/14
Sample Source: Field Sample [Taken From Site]
Date Sampled: 08/12/2014
Sampled By: Advised - See Comments
Date Tested: 15/12/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.60
Optimum Moisture Content (%): 16
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

Sampled by LS



Report No: MDD:CAN14S-25526

Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
 City Care Limited
 PO Box 7669
 Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

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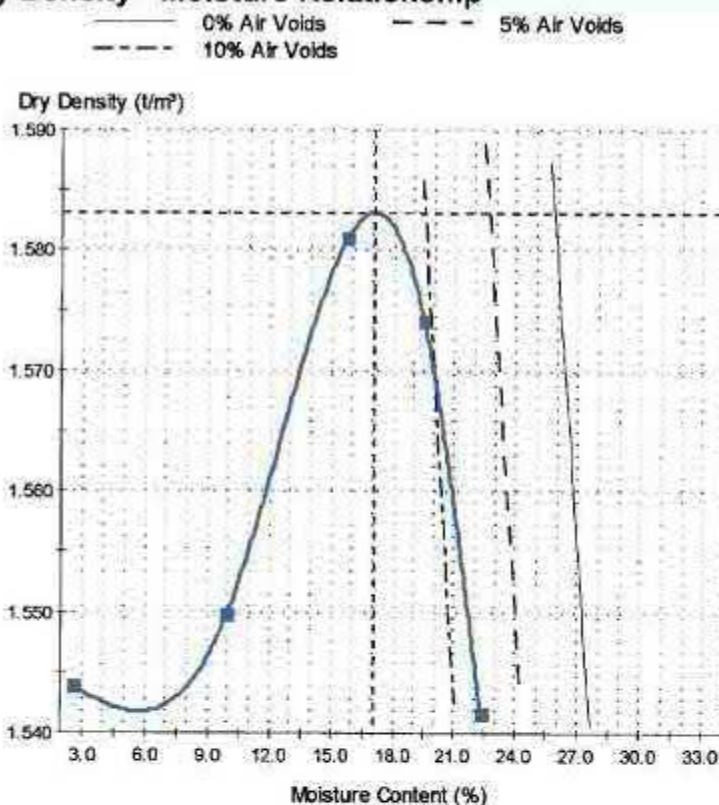
Approved Signatory: Max Burford
 (Supervisor)
 IANZ Accreditation No: 200
 Date of Issue: 15/12/14

Sample Details

Sample ID: CAN14S-25526
Material: Sand
Site/Sampled From: Site # J
Specification: No Specification (Fine)
Sampling Method: As Received - Not Accredited
Technician: Marc Bos

Client Sample ID: 3093/14
Sample Source: Field Sample [Taken From Site]
Date Sampled: 08/12/2014
Sampled By: Advised - See Comments
Date Tested: 15/12/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.58
Optimum Moisture Content (%): 17
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

Sampled by LS

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

The test (s) reported herein (unless otherwise indicated) have been performed in accordance with the laboratory's scope of accreditation. This report may only be reproduced in full.



Max Burford

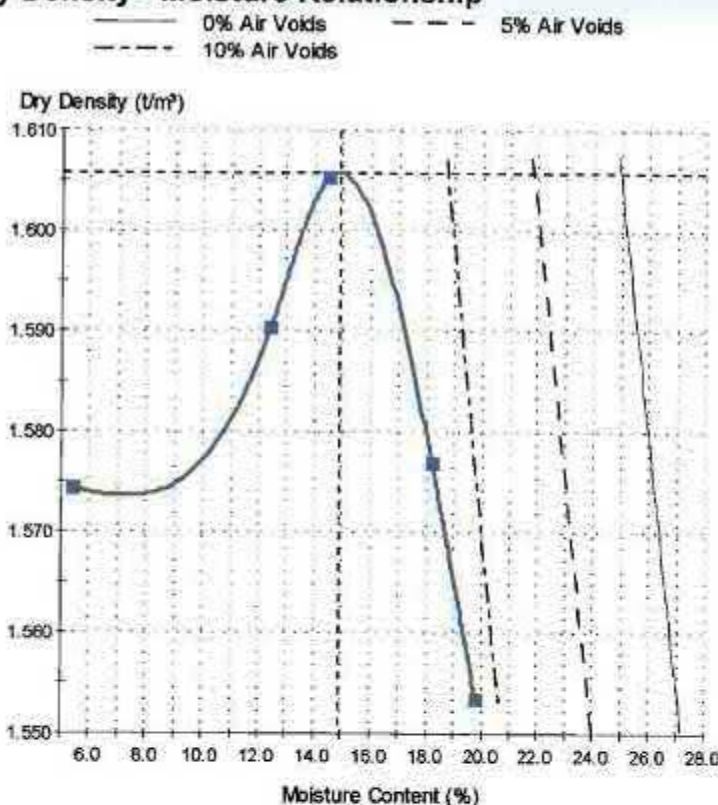
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No:200
Date of Issue: 15/12/14

Sample Details

Sample ID: CAN14S-25527
Material: Sand
Site/Sampled From: CDC Prestons Sample K
Specification: No Specification (Fine)
Sampling Method: As Received - Not Accredited
Technician: Marc Bos

Client Sample ID: 3094/14
Sample Source: Field Sample [Taken From Site]
Date Sampled: 08/12/2014
Sampled By: Advised - See Comments
Date Tested: 15/12/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986
Maximum Dry Density (t/m³): 1.60
Optimum Moisture Content (%): 15
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

Sampled by LS

SWALE AREA A

Canterbury Laboratory

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PO Box 16-064, Christchurch 8441
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Report No: MDD:CAN14S-11317

Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

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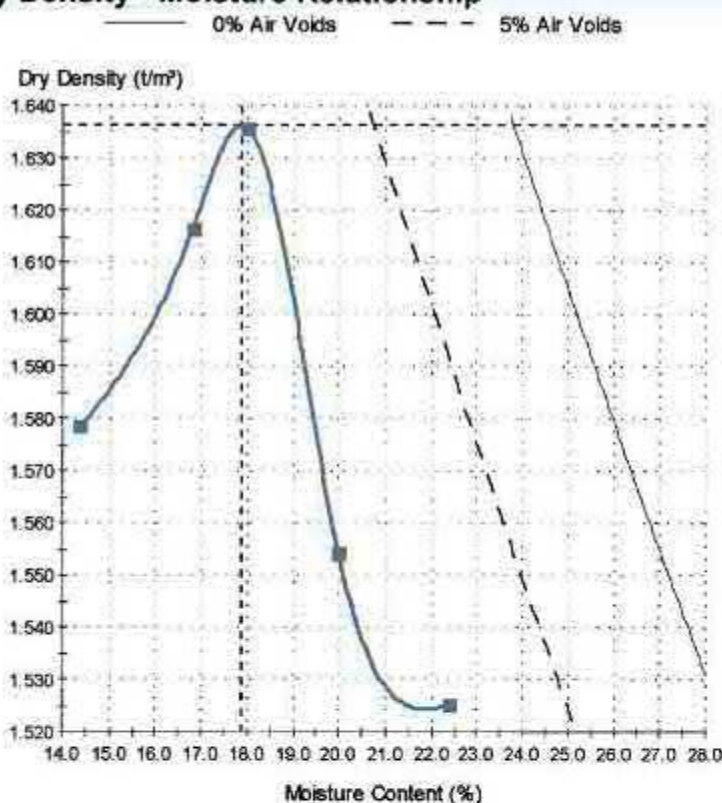
Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No: 200
Date of Issue: 30/05/14

Sample Details

Sample ID: CAN14S-11317
Material: BEACH SAND
Site/Sampled From: CDL Prestons Rd, Swale Area A
Specification: No Specification
Sampling Method: As Received - Not Accredited
Technician: Atu Rova

Client Sample ID: Lab Ref 1181/14
Sample Source: Field Sample [Taken From Site]
Date Sampled: 27/05/2014
Sampled By: Mark Foster
Date Tested: 30/05/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

———— NZS 4402:1986 Test 4.1.3 - 1986 ————
Maximum Dry Density (t/m³): 1.64
Optimum Moisture Content (%): 18
Solid Density (t/m³): 2.68 assumed
Fraction Tested Passes (mm): 37.5
Material Removed (%): 0
Sample History: Natural

Comments

The material is best described as FINE SAND with less 5% of medium sand and silt

Report No: MDD:CAN14S-15900
Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

The test (s) reported herein (unless otherwise indicated) have been performed in accordance with the laboratory's scope of accreditation. This report may only be reproduced in full.



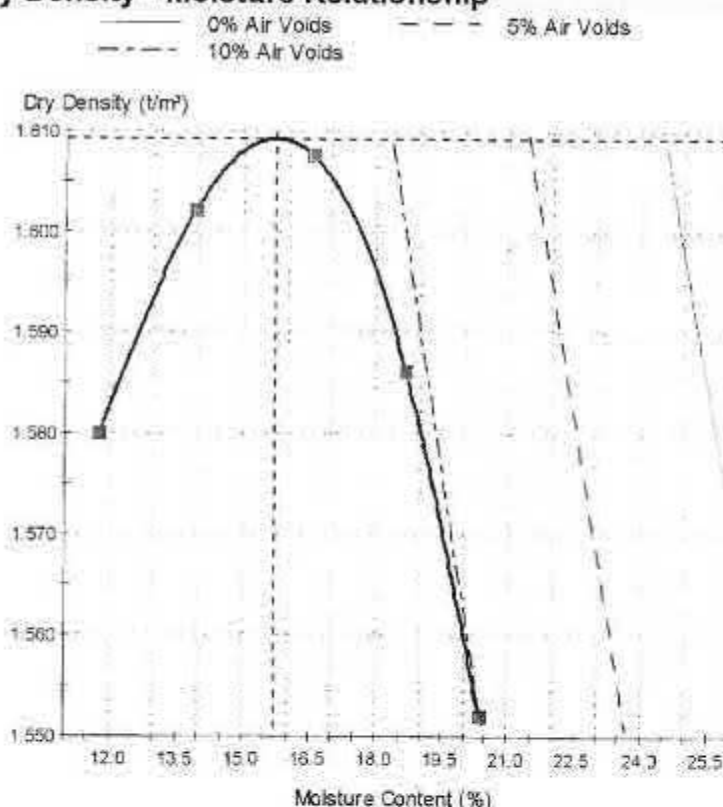

Approved Signatory: Max Burford
(Supervisor)
IANZ Accreditation No:200
Date of Issue: 13/08/14

Sample Details

Sample ID: CAN14S-15900
Material: BEACH SAND
Site/Sampled From: CDL Prestons Road Swale Area B
Specification: No Specification
Sampling Method: Stated to be NZS 4407:1991 2.4.6.2.2
Technician: Max Burford

Client Sample ID: Lab ref:1833/14
Sample Source: Field Sample [Taken From Site]
Date Sampled: 07/08/2014
Sampled By: Advised - See Comments
Date Tested: 13/08/2014
Sampling Endorsed?: No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986

Maximum Dry Density (t/m³):	1.60
Optimum Moisture Content (%):	16
Solid Density (t/m³):	2.66 assumed
Fraction Tested Passes (mm):	37.5
Material Removed (%):	0
Sample History:	Natural

Comments

Sampled by RR
Material is best described as FINE SAND with minor medium sand



Appendix H

NDM Test Results

Project
Project No.
Date
Title

Prestons South Subdivision
235361
19-Nov-14
Summary of Gravel Compaction Results

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
3/06/2014	1281	1	1	812440	395345	U	2320	PIT RUN	1		99.7
		2	2	812416	395344	U	2320	PIT RUN	1		100.3
		3	3	812395	395351	U	2320	PIT RUN	1		98.9
		4	4	812379	395352	U	2320	PIT RUN	1		98.4
		5	5	812356	395355	U	2320	PIT RUN	1		99.9
4/06/2014	1301	1	6	812440	395345	U	2320	PIT RUN	2		98.8
		2	7	812416	395344	U	2320	PIT RUN	2		100.2
		3	8	812395	395351	U	2320	PIT RUN	2		99.9
		4	9	812379	395352	U	2320	PIT RUN	2		100.2
		5	10	812356	395355	U	2320	PIT RUN	2		98.9
		6	11	812441	395361	U	2320	PIT RUN	1		98.6
		7	12	812417	395362	U	2320	PIT RUN	1		100.1
		8	13	812396	395364	U	2320	PIT RUN	1		100.2
		9	14	812380	395368	U	2320	PIT RUN	1		98.4
		10	15	812357	395370	U	2320	PIT RUN	1		99.5
5/06/2014	1308	1	16	812441	395361	U	2320	PIT RUN	2		101.9
		2	17	812417	395362	U	2320	PIT RUN	2		100.2
		3	18	812396	395364	U	2320	PIT RUN	2		100.8
		4	19	812380	395368	U	2320	PIT RUN	2		99.8
		5	20	812357	395370	U	2320	PIT RUN	2		100.8
		6	21	812440	395345	U	2320	PIT RUN	3		100.8
		7	22	812416	395344	U	2320	PIT RUN	3		100.9
		8	23	812395	395351	U	2320	PIT RUN	3		100.4
		9	24	812379	395352	U	2320	PIT RUN	3		101.4
		10	25	812356	395355	U	2320	PIT RUN	3		100.8
6/06/2014	1321	1	26	812440	395345	U	2320	PIT RUN	4		98.1
		2	27	812416	395344	U	2320	PIT RUN	4		100.3
		3	28	812395	395351	U	2320	PIT RUN	4		100.0
		4	29	812379	395352	U	2320	PIT RUN	4		98.9
		5	30	812356	395355	U	2320	PIT RUN	4		98.4
		6	31	812441	395361	U	2320	PIT RUN	1	No ref	96.9
		7	32	812417	395362	U	2320	PIT RUN	3	No ref	95.8
		8	33	812396	395364	U	2320	PIT RUN	3	No ref	96.4
		9	34	812380	395368	U	2320	PIT RUN	3	No ref	97.5
		10	35	812357	395370	U	2320	PIT RUN	3		98.8
25/06/2014	1426	1	36	812329	395383	U	2320	PIT RUN	1		98.8
		2	37	812297	395405	U	2320	PIT RUN	1		99.4
		3	38	812306	395384	U	2320	PIT RUN	1		98.5
		4	39	812336	395356	U	2320	PIT RUN	1		100.1
		5	40	812440	395345	U	2320	PIT RUN	6		99.7
30/06/2014	1463	2	41	812416	395344	U	2320	PIT RUN	6		99.1
		3	42	812379	395352	U	2320	PIT RUN	6		99.0
		4	43	812356	395355	U	2320	PIT RUN	6		98.0
		5	44	812306	395401	U	2320	PIT RUN	1		98.3
		6	45	812278	395412	U	2320	PIT RUN	1		98.2
		7	46	812266	395417	U	2320	PIT RUN	1		99.8
		8	47	812237	395421	U	2320	PIT RUN	1		98.2
		9	48	812357	395370	U	2320	PIT RUN	5		100.0
		10	49	812380	395368	U	2320	PIT RUN	5		100.3
		11	50	812417	395362	U	2320	PIT RUN	5		98.5
3/07/2014	1498	1	51	812440	395345	U	2320	PIT RUN	7		98.0
		2	52	812416	395344	U	2320	PIT RUN	7		99.6
		3	53	812379	395352	U	2320	PIT RUN	7		98.5
		4	54	812356	395355	U	2320	PIT RUN	7		99.4
		5	55	812336	395356	U	2320	PIT RUN	2		98.5
		6	56	812329	395383	U	2320	PIT RUN	2		98.6
		7	57	812357	395370	U	2320	PIT RUN	6		98.8
		8	58	812380	395368	U	2320	PIT RUN	6		98.7
		9	59	812417	395362	U	2320	PIT RUN	6		98.5
		10	60	812441	395361	U	2320	PIT RUN	6		98.6
6/07/2014	1514	1	61	812393	395408	U	2340	PIT RUN	4	1566	92.9
		2	62	812278	395412	U	2340	PIT RUN	4	1566	94.7
		3	63	812266	395417	U	2340	PIT RUN	4	1566	96.1
		4	64	812254	395421	U	2340	PIT RUN	4	1566	96.6
		5	65	812289	395393	U	2340	PIT RUN	3		99.5
9/07/2014	1566	2	66	812278	395397	U	2340	PIT RUN	3		101.1
		3	67	812262	395402	U	2340	PIT RUN	3		99.1
		4	68	812251	395407	U	2340	PIT RUN	3		99.3
		5	69	812254	395421	U	2320	PIT RUN	4		100.2
		6	70	812266	395417	U	2320	PIT RUN	4		99.5
		7	71	812278	395412	U	2320	PIT RUN	4		99.9
		8	72	812293	395408	U	2320	PIT RUN	4		99.7
		9	73	812302	395389	U	2340	PIT RUN	1		98.3
7/07/2014	1541	2	74	812289	395393	U	2340	PIT RUN	1		98.2
		3	75	812278	395397	U	2340	PIT RUN	1		98.6
		4	76	812262	395402	U	2340	PIT RUN	1		99.4
		5	77	812306	395401	U	2320	PIT RUN	3		98.6
7/07/2014	1540	2	78	812297	395409	U	2320	PIT RUN	3		98.0
		3	79	812288	395409	U	2320	PIT RUN	3		98.1
		4	80	812278	395412	U	2320	PIT RUN	3		98.5
		5	81	812311	395379	U	2340	PIT RUN	2		99.2
8/07/2014	1561	2	82	812302	395389	U	2340	PIT RUN	2		98.6
		3	83	812289	395393	U	2340	PIT RUN	2		98.4
		4	84	812278	395397	U	2340	PIT RUN	2		99.1
		5	85	812306	395384	U	2340	PIT RUN	4		99.6
11/07/2014	1603	2	86	812278	395397	U	2340	PIT RUN	4	1602	95.9
		3	87	812311	395379	U	2340	PIT RUN	4		99.0
		4	88	812302	395389	U	2340	PIT RUN	4		98.8
		5	89	812289	395393	U	2340	PIT RUN	4		102.2
14/07/2014	1620	4	90	812278	395397	U	2340	PIT RUN	4		101.1
		1	91	812440	395345	U	2320	PIT RUN	8		99.5
		2	92	812416	395344	U	2320	PIT RUN	8		102.2
		3	93	812379	395352	U	2320	PIT RUN	8		98.2
		4	94	812356	395355	U	2320	PIT RUN	8		98.3

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		5	95	812319	395371	U	2320	PIT RUN	4		98.5
		6	96	812337	395375	U	2320	PIT RUN	4		103.5
		7	97	812421	395390	U	2320	PIT RUN	4		99.1
16/07/2014	1642	1	98	812336	395356	U	2340	PIT RUN	4		98.7
		2	99	812329	395381	U	2340	PIT RUN	4		100.7
		3	100	812302	395389	U	2340	PIT RUN	5		98.0
		4	101	812285	395393	U	2340	PIT RUN	5		98.2
		5	102	812278	395397	U	2340	PIT RUN	5		98.0
		6	103	812262	395402	U	2340	PIT RUN	5		101.4
		7	104	812266	395417	U	2340	PIT RUN	5		98.5
		8	105	812278	395412	U	2340	PIT RUN	5		99.2
		9	106	812293	395408	U	2340	PIT RUN	5		98.0
		10	107	812306	395401	U	2340	PIT RUN	5		98.0
		11	108	812357	395370	U	2340	PIT RUN	7		98.2
		12	109	812380	395368	U	2340	PIT RUN	7		99.9
		13	110	812417	395362	U	2340	PIT RUN	7		98.6
		14	111	812441	395361	U	2340	PIT RUN	7		99.5
17/07/2014	1649	1	112	812302	395389	U	2320	PIT RUN	6		98.5
		2	113	812289	395393	U	2320	PIT RUN	6		102.1
		3	114	812278	395397	U	2320	PIT RUN	6		98.9
		4	115	812262	395402	U	2320	PIT RUN	6		98.8
		5	116	812336	395356	U	2320	PIT RUN	5		98.8
		6	117	812319	395371	U	2320	PIT RUN	5		98.1
		7	118	812329	395381	U	2320	PIT RUN	5		99.0
		8	119	812306	395401	U	2320	PIT RUN	6		98.5
		9	120	812293	395408	U	2320	PIT RUN	6		98.6
		10	121	812278	395412	U	2320	PIT RUN	6		98.2
		11	122	812266	395417	U	2320	PIT RUN	6		98.3
28/07/2014	1728	1	123	812298	395390	U	2340	PIT RUN	1		99.4
		2	124	812294	395391	U	2340	PIT RUN	1		100.6
		3	125	812285	395395	U	2340	PIT RUN	1		98.9
		4	126	812258	395402	U	2340	PIT RUN	1		98.7
25/07/2014	1712	1	127	812334	395380	U	2340	PIT RUN	3		98.3
		2	128	812336	395356	U	2340	PIT RUN	3		99.4
		3	129	812311	395375	U	2340	PIT RUN	6		98.6
		4	130	812298	395390	U	2340	PIT RUN	4		99.1
		5	131	812294	395391	U	2340	PIT RUN	4		98.4
		6	132	812285	395395	U	2340	PIT RUN	4		98.8
28/07/2014	1727	1	133	812334	395380	U	2340	PIT RUN	4		98.3
		2	134	812321	395390	U	2340	PIT RUN	4		99.4
21/07/2014	1665	1	135	812311	395379	U	2320	PIT RUN	6		100.7
		2	136	812311	395400	U	2320	PIT RUN	6		98.6
		3	137	812301	395403	U	2320	PIT RUN	6		99.1
		4	138	812293	395408	U	2320	PIT RUN	7		99.0
		5	139	812278	395412	U	2320	PIT RUN	7		100.6
		6	140	812266	395417	U	2320	PIT RUN	7		99.6
		7	141	812254	395423	U	2320	PIT RUN	7		98.2
		8	142	812251	395396	U	2320	PIT RUN	7		98.2
		9	143	812262	395402	U	2320	PIT RUN	7		98.0
		10	144	812278	395397	U	2320	PIT RUN	7		99.0
		11	145	812289	395393	U	2320	PIT RUN	7		99.4
23/07/2014	1686	1	146	812289	395421	U	2340	PIT RUN	2		99.6
		2	147	812227	395421	U	2340	PIT RUN	2		99.0
		3	148	812202	395424	U	2340	PIT RUN	2		98.0
		4	149	812183	395425	U	2340	PIT RUN	2		99.5
		5	150	812271	395414	U	2340	PIT RUN	1		99.0
		6	151	812271	395399	U	2340	PIT RUN	1		99.4
24/07/2014	1690	1	152	812329	395381	U	2320	PIT RUN	7		98.2
		2	153	812319	395371	U	2320	PIT RUN	7		99.6
		3	154	812336	395356	U	2320	PIT RUN	7		98.8
		4	155	812288	395409	U	2340	PIT RUN	2		98.5
		5	156	812271	395399	U	2340	PIT RUN	2		99.3
		6	157	812266	395417	U	2340	PIT RUN	3		99.3
		7	158	812265	395421	U	2340	PIT RUN	3		98.1
		8	159	812227	395421	U	2340	PIT RUN	3		98.1
		9	160	812217	395423	U	2340	PIT RUN	3		98.7
		10	161	812202	395424	U	2340	PIT RUN	3		98.9
30/07/2014	1745	1	162	812258	395402	U	2340	PIT RUN	2		98.5
		2	163	812241	395405	U	2340	PIT RUN	2		98.4
		3	164	812223	395404	U	2340	PIT RUN	2		98.7
		4	165	812199	395412	U	2340	PIT RUN	2		99.1
		5	166	812271	395414	U	2340	PIT RUN	5		98.6
		6	167	812285	395395	U	2340	PIT RUN	5		98.2
31/07/2014	1760	1	168	812258	395402	U	2340	PIT RUN	1		98.4
		2	169	812241	395405	U	2340	PIT RUN	3		99.7
		3	170	812223	395404	U	2340	PIT RUN	3		98.3
		4	171	812199	395412	U	2340	PIT RUN	3		98.9
1/08/2014	1775	1	172	812258	395402	U	2340	PIT RUN	4		98.0
		2	173	812241	395405	U	2340	PIT RUN	4		98.1
		3	174	812223	395404	U	2340	PIT RUN	4		98.8
		4	175	812199	395412	U	2340	PIT RUN	4		98.8
4/08/2014	1795	1	176	812336	395356	U	2320	PIT RUN	8		98.7
		2	177	812345	395362	U	2320	PIT RUN	8		100.4
		3	178	812345	395374	U	2320	PIT RUN	8		98.7
		4	179	812357	395370	U	2320	PIT RUN	8		101.6
		5	180	812380	395368	U	2320	PIT RUN	8		100.5
		6	181	812417	395362	U	2320	PIT RUN	8		100.0
		7	182	812416	395344	U	2320	PIT RUN	8		98.4
		8	183	812329	395381	U	2320	PIT RUN	8		98.1
		9	184	812321	395390	U	2320	PIT RUN	8		100.3
		10	185	812313	395400	U	2320	PIT RUN	8		99.3
		11	186	812301	395403	U	2320	PIT RUN	8		98.0
		12	187	812289	395393	U	2320	PIT RUN	8		98.0
		13	188	812302	395389	U	2320	PIT RUN	8		98.4
		14	189	812311	395379	U	2320	PIT RUN	8		98.8
		15	190	812319	395371	U	2320	PIT RUN	8		99.4
		16	191	812271	395395	U	2320	PIT RUN	6		99.2
		17	192	812341	395405	U	2320	PIT RUN	4		98.1
		18	193	812223	395404	U	2320	PIT RUN	4		100.3
		19	194	812199	395412	U	2320	PIT RUN	4		99.0

DATE	LAB REFERENCE	SITE NUMBER	LAB#	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
6/08/2014	1817	1	195	812202	895424	U	2320	PIT RUN	5		98.3
		2	196	812227	895421	U	2320	PIT RUN	5		98.1
		3	197	812237	895421	U	2320	PIT RUN	5		98.0
		4	198	812249	895421	U	2320	PIT RUN	5		98.1
7/08/2014	1834	1	199	812176	895415	U	2180	PIT RUN	1		99.5
		2	200	812159	895426	U	2340	PIT RUN	1		98.1
9/08/2014	1885	1	201	812176	895415	U	2180	PIT RUN	2		99.1
		2	202	812159	895426	U	2340	PIT RUN	2		99.9
		3	203	812199	895412	U	2340	PIT RUN	5		98.1
		4	204	812223	895404	U	2180	PIT RUN	5		98.5
		5	205	812241	895405	U	2340	PIT RUN	5		98.8
		6	206	812271	895399	U	2180	PIT RUN	5		100.2
		7	207	812249	895421	U	2320	PIT RUN	6		98.3
		8	208	812237	895421	U	2320	PIT RUN	6		98.1
		9	209	812227	895421	U	2320	PIT RUN	6		98.2
		10	210	812202	895424	U	2320	PIT RUN	6		98.1
11/08/2014	1892	1	211	812202	895424	U	2180	PIT RUN	7		98.2
		2	212	812227	895421	U	2340	PIT RUN	7		98.2
		3	213	812237	895421	U	2340	PIT RUN	7		98.9
		4	214	812249	895421	U	2180	PIT RUN	7		98.2
22/07/2014	1676	1	215	812249	895421	U	2320	PIT RUN	1		98.8
		2	216	812227	895421	U	2120	PIT RUN	1		98.0
		3	217	812217	895423	U	2320	PIT RUN	1		98.0
		4	218	812202	895424	U	2320	PIT RUN	1		98.5
12/08/2014	1905	1	219	812202	895424	U	2180	PIT RUN	8		98.0
		2	220	812227	895421	U	2340	PIT RUN	8		98.0
		3	221	812237	895421	U	2180	PIT RUN	8		98.0
		4	222	812249	895421	U	2340	PIT RUN	8		98.4
		5	223	812176	895415	U	2320	PIT RUN	3		98.4
		6	224	812159	895426	U	2320	PIT RUN	3		98.0
		7	225	812294	895391	U	2320	PIT RUN	6		98.1
		8	226	812288	895409	U	2120	PIT RUN	6		98.0
13/08/2014	1920	1	227	812294	895391	U	2340	PIT RUN	7		100.6
		2	228	812288	895409	U	2340	PIT RUN	7		98.0
		3	229	812176	895415	U	2180	PIT RUN	6		98.3
		4	230	812159	895426	U	2340	PIT RUN	4		99.0
14/08/2014	1935	1	231	812271	895399	U	2180	PIT RUN	6		98.1
		2	232	812241	895405	U	2340	PIT RUN	6		98.3
		3	233	812223	895404	U	2340	PIT RUN	6		98.1
		4	234	812199	895412	U	2340	PIT RUN	6		98.7
		5	235	812176	895415	U	2340	PIT RUN	5		98.6
		6	236	812159	895426	U	2180	PIT RUN	5		98.0
20/08/2014	1986	1	237	812550	895340	U	2340	PIT RUN	1		99.4
		2	238	812551	895326	U	2340	PIT RUN	2		100.0
		3	239	812531	895329	U	2340	PIT RUN	2		99.2
		4	240	812517	895329	U	2340	PIT RUN	2		98.4
		5	241	812497	895329	U	2180	PIT RUN	2		99.5
		6	242	812479	895334	U	2340	PIT RUN	2		99.1
21/08/2014	1993	1	243	812498	895344	U	2340	PIT RUN	2		98.2
		2	244	812504	895343	U	2340	PIT RUN	2		98.2
		3	245	812518	895342	U	2340	PIT RUN	2		98.4
		4	246	812532	895342	U	2180	PIT RUN	2		100.1
		5	247	812537	895341	U	2340	PIT RUN	2		98.0
22/08/2014	2010	1	248	812551	895326	U	2340	PIT RUN	3		98.2
		2	249	812531	895329	U	2340	PIT RUN	3		99.8
		3	250	812517	895329	U	2340	PIT RUN	3		98.6
		4	251	812497	895329	U	2180	PIT RUN	3		99.0
		5	252	812479	895334	U	2340	PIT RUN	3		98.5
		6	253	812550	895340	U	2340	PIT RUN	3		99.4
		7	254	812532	895342	U	2340	PIT RUN	3		98.4
		8	255	812518	895342	U	2340	PIT RUN	3		98.1
		9	256	812498	895343	U	2180	PIT RUN	3		98.5
		10	257	812480	895350	U	2340	PIT RUN	3		99.7
25/08/2014	2022	1	258	812551	895326	U	2340	PIT RUN	4		98.5
		2	259	812531	895329	U	2340	PIT RUN	4		98.0
		3	260	812517	895329	U	2340	PIT RUN	4		98.5
		4	261	812497	895329	U	2180	PIT RUN	4		98.9
		5	262	812479	895334	U	2340	PIT RUN	4		99.6
26/08/2014	2029	1	263	812176	895415	U	2120	PIT RUN	7		99.1
		2	264	812159	895426	U	2320	PIT RUN	7		100.7
		3	265	812199	895412	U	2320	PIT RUN	7		101.9
		4	266	812223	895404	U	2120	PIT RUN	7		98.8
		5	267	812241	895405	U	2320	PIT RUN	7		100.4
		6	268	812271	895399	U	2120	PIT RUN	7		99.9
19/06/2014	1378	1	269	812441	895361	U	2320	PIT RUN	3		98.9
		2	270	812417	895362	U	2320	PIT RUN	3		99.4
		3	271	812396	895363	U	2120	PIT RUN	3		98.2
		4	272	812380	895368	U	2320	PIT RUN	3		100.6
		5	273	812357	895370	U	2120	PIT RUN	3		98.5
		6	274	812356	895355	U	2320	PIT RUN	5		99.9
		7	275	812379	895352	U	2320	PIT RUN	5		100.0
		8	276	812395	895351	U	2120	PIT RUN	5		100.1
		9	277	812416	895344	U	2320	PIT RUN	5		99.0
		10	278	812480	895365	U	2120	PIT RUN	5		98.6
27/08/2014	2039	1	279	812551	895326	U	2340	PIT RUN	5		99.6
		2	280	812531	895329	U	2340	PIT RUN	5		99.1
		3	281	812517	895329	U	2180	PIT RUN	5		99.4
		4	282	812497	895329	U	2340	PIT RUN	5		98.9
		5	283	812479	895334	U	2180	PIT RUN	5		98.5
		6	284	812271	895399	U	2340	PIT RUN	8		98.3
		7	285	812241	895405	U	2180	PIT RUN	8		98.1
		8	286	812223	895404	U	2340	PIT RUN	8		98.3
		9	287	812199	895412	U	2340	PIT RUN	8		98.2
28/08/2014	2068	1	288	812551	895326	U	2180	PIT RUN	6		100.6
		2	289	812531	895329	U	2340	PIT RUN	6		98.8
		3	290	812517	895329	U	2180	PIT RUN	6		98.4
		4	291	812497	895329	U	2120	PIT RUN	6		99.6
		5	292	812479	895334	U	2320	PIT RUN	6		99.3
30/08/2014	2076	1	293	812610	895134	M	2180	PIT RUN	1		98.6
		2	294	812578	895341	U	2340	PIT RUN	1		98.8

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		3	295	812545	895345	U	2340	PIT RUN	1		98.4
		4	296	812464	895347	U	2320	PIT RUN	7		98.7
		5	297	812479	895334	U	2320	PIT RUN	7		98.3
		6	298	812497	895325	U	2320	PIT RUN	7		99.1
		7	299	812517	895326	U	2180	PIT RUN	7		98.8
		8	300	812531	895329	U	2340	PIT RUN	7		98.2
		9	301	812532	895347	U	2160	PIT RUN	4		98.7
		10	302	812518	895342	U	2340	PIT RUN	4		98.1
		11	303	812498	895344	U	2340	PIT RUN	4		98.7
		12	304	812480	895350	U	2180	PIT RUN	6		100.2
		13	305	812465	895358	U	2340	PIT RUN	4		100.6
19/08/2014	1949	1	306	812537	895347	U	2160	PIT RUN	1		98.1
		2	307	812518	895342	U	2340	PIT RUN	1		98.1
		3	308	812498	895344	U	2340	PIT RUN	1		98.1
		4	309	812480	895350	U	2180	PIT RUN	1		99.0
		5	310	812159	895426	U	2340	PIT RUN	6		98.2
		6	311	812176	895415	U	2160	PIT RUN	6		99.1
2/09/2014	2093	1	312	812545	895345	U	2340	PIT RUN	2		100.0
		2	313	812578	895341	U	2340	PIT RUN	2		100.2
		3	314	812589	895341	U	2180	PIT RUN	2		100.1
3/09/2014	2104	1	315	812550	895340	U	2340	PIT RUN	5		99.0
		2	316	812537	895347	U	2160	PIT RUN	5		99.9
		3	317	812518	895342	U	2340	PIT RUN	5		98.0
		4	318	812498	895344	U	2340	PIT RUN	5		100.2
		5	319	812480	895350	U	2180	PIT RUN	5		98.1
3/09/2014	2105	1	320	812589	895341	U	2340	PIT RUN	3		100.9
		2	321	812578	895341	U	2160	PIT RUN	3		98.8
		3	322	812545	895345	U	2340	PIT RUN	3		99.5
4/09/2014	2119	1	323	812602	895322	M	2340	PIT RUN	1		99.4
		2	324	812584	895322	U	2180	PIT RUN	1		98.1
		3	325	812566	895325	U	2340	PIT RUN	1		98.9
		4	326	812546	895329	U	2160	PIT RUN	1		100.3
		5	327	812539	895329	U	2340	PIT RUN	1		101.1
5/09/2014	2125	1	328	812539	895329	U	2340	PIT RUN	2		99.5
		2	329	812546	895325	U	2180	PIT RUN	2		100.8
		3	330	812566	895325	U	2340	PIT RUN	2		98.8
		4	331	812584	895322	U	2160	PIT RUN	2		100.6
		5	332	812602	895322	M	2340	PIT RUN	2		99.1
8/09/2014	2135	1	333	812640	895321	M	2340	PIT RUN	1		98.0
		2	334	812617	895321	M	2340	PIT RUN	1		98.9
10/09/2014	2166	1	335	812640	895321	M	2340	PIT RUN	2		98.0
		2	336	812617	895321	M	2180	PIT RUN	2		98.4
		3	337	812621	895340	M	2340	PIT RUN	3		98.7
		4	338	812638	895336	M	2340	PIT RUN	3		98.6
12/09/2014	2186	1	339	812396	895364	U	2340	PIT RUN	6		98.6
		2	340	812435	895361	U	2340	PIT RUN	6		100.1
		3	341	812465	895358	U	2160	PIT RUN	6		99.7
		4	342	812480	895350	U	2340	PIT RUN	6		98.7
		5	343	812498	895344	U	2340	PIT RUN	6		100.1
		6	344	812497	895329	U	2340	PIT RUN	NA		9.2
		7	345	812479	895334	U	2340	PIT RUN	NA		98.7
		8	346	812464	895342	U	2160	PIT RUN	NA		98.2
		9	347	812440	895345	U	2340	PIT RUN	NA		99.9
		10	348	812395	895351	U	2340	PIT RUN	NA		99.4
15/09/2014	2209	1	349	812640	895321	M	2340	PIT RUN	3		98.1
		2	350	812617	895321	M	2340	PIT RUN	3		98.3
		3	351	812602	895322	M	2160	PIT RUN	3		98.1
		4	352	812584	895322	U	2340	PIT RUN	3		98.2
		5	353	812566	895325	U	2160	PIT RUN	3		99.5
		6	354	812546	895329	U	2340	PIT RUN	3		98.6
		7	355	812532	895342	U	2340	PIT RUN	7		98.1
		8	356	812518	895342	U	2160	PIT RUN	7		98.5
		9	357	812504	895343	U	2340	PIT RUN	7		98.4
		10	358	812498	895344	U	2340	PIT RUN	7		98.4
		11	359	812480	895350	U	2340	PIT RUN	7		98.4
16/09/2014	2214	1	360	812638	895336	M	2340	PIT RUN	4		98.6
		2	361	812621	895340	M	2160	PIT RUN	4		99.2
		3	362	812589	895341	U	2340	PIT RUN	4		98.4
		4	363	812578	895341	U	2180	PIT RUN	4		98.4
		5	364	812545	895345	U	2340	PIT RUN	4		98.2
		6	365	812539	895329	U	2340	PIT RUN	4		98.0
		7	366	812546	895329	U	2160	PIT RUN	4		98.2
		8	367	812566	895325	U	2340	PIT RUN	4		98.2
		9	368	812584	895322	U	2160	PIT RUN	4		98.4
		10	369	812602	895322	M	2340	PIT RUN	4		99.6
		11	370	812617	895321	U	2340	PIT RUN	4		98.3
18/09/2014	2242	1	371	812504	895343	U	2160	PIT RUN	8		98.9
		2	372	812480	895350	U	2340	PIT RUN	8		103.5
		3	373	812465	895358	U	2180	PIT RUN	8		99.8
		4	374	812441	895361	U	2340	PIT RUN	8		98.6
		5	375	812417	895362	U	2340	PIT RUN	8		98.5
		6	376	812550	895340	U	2160	PIT RUN	5		98.6
		7	377	812578	895341	U	2340	PIT RUN	5		98.5
		8	378	812589	895341	U	2180	PIT RUN	5		98.5
		9	379	812621	895340	M	2340	PIT RUN	5		98.9
		10	380	812638	895336	M	2340	PIT RUN	5		98.3
19/09/2014	2268	1	381	812539	895329	U	2160	PIT RUN	5		99.3
		2	382	812551	895326	U	2340	PIT RUN	5		99.3
		3	383	812566	895325	U	2160	PIT RUN	5		100.2
		4	384	812584	895322	U	2340	PIT RUN	5		99.1
		5	385	812602	895322	M	2160	PIT RUN	5		98.0
		6	386	812617	895321	M	2340	PIT RUN	5		98.0
22/09/2014	2270	1	387	812526	895342	U	2340	PIT RUN	1		98.5
		2	388	812511	895343	U	2180	PIT RUN	1		102.2
		3	389	812526	895342	U	2340	PIT RUN	2		98.5
		4	390	812511	895341	U	2180	PIT RUN	2		98.4
		5	391	812526	895342	U	2340	PIT RUN	3		99.0
		6	392	812511	895343	U	2340	PIT RUN	3		98.4
23/09/2014	2280	1	393	812511	895343	U	2180	PIT RUN	4		98.6
		2	394	812512	895391	U	2340	PIT RUN	4		98.4

DATE	LAB REFERENCE	SITE NUMBER	LAB#	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		3	395	812539	395329	U	2340	PIT RUN	6		100.3
		4	396	812551	395328	U	2340	PIT RUN	6		100.3
		5	397	812566	395325	U	2340	PIT RUN	6		101.7
		6	398	812584	395322	U	2340	PIT RUN	6		98.9
		7	399	812602	395322	M	2340	PIT RUN	6		98.1
		8	400	812617	395321	M	2340	PIT RUN	6		101.0
4/07/2014	1519	1	401	812319	395371	U	2340	PIT RUN	3	1604	93.7
		2	402	812321	395390	U	2340	PIT RUN	3	1604	94.6
11/07/2014	1604	1	403	812319	395371	U	2340	PIT RUN	3		98.8
		2	404	812321	395390	U	2340	PIT RUN	3		99.0
		3	405	812317	395394	U	2340	PIT RUN	3		100.4
1/02/2014	1480	1	406	812356	395351	U	2320	PIT RUN	6	1492	97.2
		2	407	812379	395352	U	2320	PIT RUN	6	1492	96.5
		3	408	812395	395351	U	2320	PIT RUN	6	1492	94.2
		4	409	812416	395344	U	2320	PIT RUN	6	1492	91.7
		5	410	812416	395344	U	2320	PIT RUN	6	1492	90.2
		6	411	812395	395351	U	2320	PIT RUN	6	1492	95.6
		7	412	812379	395352	U	2320	PIT RUN	6	1492	95.4
		8	413	812356	395351	U	2320	PIT RUN	6	1492	95.1
		9	414	812342	395372	U	2320	PIT RUN	2		96.7
		10	415	812337	395375	U	2320	PIT RUN	2		95.1
		11	416	812321	395390	U	2320	PIT RUN	2		99.4
		12	417	812313	395400	U	2320	PIT RUN	2		99.1
2/07/2014	1492	1	418	812356	395351	U	2320	PIT RUN	6		99.1
		2	419	812379	395352	U	2320	PIT RUN	6	NO REF	96.7
		3	420	812395	395351	U	2320	PIT RUN	6	NO REF	97.4
		4	421	812416	395344	U	2320	PIT RUN	6		98.8
		5	422	812416	395344	U	2320	PIT RUN	6		98.3
		6	423	812395	395351	U	2320	PIT RUN	6		99.3
		7	424	812379	395352	U	2320	PIT RUN	6	NO REF	96.8
		8	425	812356	395351	U	2320	PIT RUN	6	NO REF	96.7
9/09/2014	2159	1	426	812638	395336	M	2340	PIT RUN	2		99.2
		2	427	812621	395340	M	2340	PIT RUN	2		98.5
		3	428	812614	395321	M	2340	PIT RUN	1		98.2
		4	429	812636	395321	M	2340	PIT RUN	1		98.0
25/09/2014	2313	1	430	812511	395343	U	2340	PIT RUN	5		98.1
		2	431	812526	395342	U	2340	PIT RUN	5		98.6
29/09/2014	2355	1	432	812667	395331	M	2340	PIT RUN	1		98.7
		2	433	812698	395326	M	2340	PIT RUN	1		98.7
		3	434	812729	395326	M	2340	PIT RUN	1		98.0
		4	435	812728	395314	M	2340	PIT RUN	1		98.5
		5	436	812697	395317	M	2340	PIT RUN	1		100.5
		6	437	812668	395320	M	2340	PIT RUN	1		98.4
30/09/2014	2371	1	438	812668	395320	M	2340	PIT RUN	2		99.1
		2	439	812697	395317	M	2340	PIT RUN	2		99.0
		3	440	812728	395314	M	2340	PIT RUN	2		98.9
1/10/2014	2396	1	441	812667	395331	M	2340	PIT RUN	2		100.6
		2	442	812698	395326	M	2340	PIT RUN	2		98.6
		3	443	812729	395326	M	2340	PIT RUN	2		100.0
		4	444	812728	395314	M	2340	PIT RUN	3		101.2
		5	445	812697	395317	M	2340	PIT RUN	3		98.1
		6	446	812668	395320	M	2340	PIT RUN	3		99.9
2/10/14	2405	1	447	812668	395320	M	2340	PIT RUN	4		98.4
		2	448	812697	395317	M	2340	PIT RUN	4		98.4
		3	449	812728	395314	M	2340	PIT RUN	4		98.8
		4	450	812667	395317	M	2340	PIT RUN	4		98.5
		5	451	812698	395326	M	2340	PIT RUN	4		98.2
		6	452	812729	395326	M	2340	PIT RUN	4		99.7
3/10/2014	2427	1	453	812526	395342	U	2340	PIT RUN	6		101.9
		2	454	812550	395340	U	2340	PIT RUN	6		99.3
		3	455	812578	395343	U	2340	PIT RUN	6		102.4
		4	456	812589	395341	U	2340	PIT RUN	6		100.9
		5	457	812621	395340	M	2340	PIT RUN	6		1001.2
		6	458	812638	395336	M	2340	PIT RUN	6		103.6
		7	459	812667	395331	M	2340	PIT RUN	6		101.2
		8	460	812698	395326	M	2340	PIT RUN	6		100.7
		9	461	812729	395326	M	2340	PIT RUN	6		100.5
6/10/2014	2441	1	462	812668	395320	M	2340	PIT RUN	5		98.1
		2	463	812697	395317	M	2340	PIT RUN	5		100.0
		3	464	812728	395314	M	2340	PIT RUN	5		98.5
		4	465	812667	395317	M	2340	PIT RUN	5		98.1
		5	466	812698	395326	M	2340	PIT RUN	5		99.0
		6	467	812729	395326	M	2340	PIT RUN	5		99.7
9/10/2014	2486	1	468	812667	395331	M	2340	PIT RUN	7		98.2
		2	469	812698	395326	M	2340	PIT RUN	7		98.3
		3	470	812729	395326	M	2340	PIT RUN	7		98.5
		4	471	812668	395320	M	2340	PIT RUN	8		99.2
		5	472	812697	395317	M	2340	PIT RUN	8		98.4
		6	473	812728	395314	M	2340	PIT RUN	8		98.3
		7	474	812539	395329	U	2340	PIT RUN	8		100.0
		8	475	812551	395328	U	2340	PIT RUN	8		98.9
		9	476	812566	395325	U	2340	PIT RUN	8		98.0
		10	477	812584	395322	U	2340	PIT RUN	8		100.1
		11	478	812602	395322	M	2340	PIT RUN	8		100.2
		12	479	812617	395321	M	2340	PIT RUN	8		98.7
10/10/2014	2497	1	480	812729	395326	M	2340	PIT RUN	8		105.7
		2	481	812698	395326	M	2340	PIT RUN	8		100.0
		3	482	812667	395331	M	2340	PIT RUN	8		99.5
		4	483	812589	395341	U	2340	PIT RUN	7		99.5
		5	484	812578	395341	U	2340	PIT RUN	7		100.9
		6	485	812550	395340	U	2340	PIT RUN	7		99.5
14/10/2014	2518	1	486	812498	395344	U	2340	PIT RUN	8		98.0
		2	487	812526	395342	U	2340	PIT RUN	8	NO REF/2536	96.9
		3	488	812550	395340	U	2340	PIT RUN	8	NO REF/2536	96.6
24/06/2014	1417	1	489			M	2320	PIT RUN	4		98.2
		2	490			M	2320	PIT RUN	4		100.9
		3	491			M	2320	PIT RUN	4		98.7
		4	492			M	2320	PIT RUN	4		98.5
7/10/2014	2455	1	493	812668	395320	M	2340	PIT RUN	6		98.1
		2	494	812697	395317	M	2340	PIT RUN	6		98.4

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		3	495	812728	395314	M	2340	PIT RUN	6		99.4
		4	496	812640	395321	M	2340	PIT RUN	7		99.6
		5	497	812617	395322	M	2340	PIT RUN	7		99.1
		6	498	812584	395322	U	2340	PIT RUN	7		98.4
		7	499	812551	395326	U	2340	PIT RUN	7		99.7
		8	500	812539	395329	U	2340	PIT RUN	7		98.6
		9	501	812511	395341	U	2340	PIT RUN	6		98.7
		10	502	812526	395342	U	2340	PIT RUN	6		99.2
8/30/2014	2464	1	503	812667	395331	M	2340	PIT RUN	6		100.5
		2	504	812698	395326	M	2340	PIT RUN	6		99.8
		3	505	812729	395326	M	2340	PIT RUN	6		99.6
		4	506	812728	395314	M	2340	PIT RUN	7		98.3
		5	507	812697	395317	M	2340	PIT RUN	7		98.0
		6	508	812668	395320	M	2340	PIT RUN	7		99.4
28/10/2014	2665	1	509	812647	395313	M	2340	PIT RUN	1		98.4
		2	510	812661	395312	M	2340	PIT RUN	1		98.1
		3	511	812675	395311	M	2340	PIT RUN	1		98.1
15/10/2014	2536	1	512	812526	395342	U	2340	PIT RUN	8	2518	99.3
		2	513	812550	395340	U	2340	PIT RUN	8	2518	98.8
		3	514	812578	395341	U	2340	PIT RUN	8		100.3
		4	515	812589	395341	U	2340	PIT RUN	8		99.1
		5	516	812621	395340	U	2340	PIT RUN	8		98.1
		6	517	812638	395336	U	2340	PIT RUN	8		98.4
29/10/2014	2677	1	518	812614	395342	M	2340	PIT RUN	2		99.1
		2	519	812643	395337	M	2340	PIT RUN	2		98.4
		3	520	812650	395335	M	2340	PIT RUN	2		98.1
30/10/2014	2686	1	521	812650	395335	M	2340	PIT RUN	3		100.6
		2	522	812632	395337	M	2340	PIT RUN	3		98.1
		3	523	812614	395342	M	2340	PIT RUN	3		100.3
31/10/2014	2722	1	524	812650	395335	M	2340	PIT RUN	4		98.4
		2	525	812632	395337	M	2340	PIT RUN	4		98.8
		3	526	812614	395342	M	2340	PIT RUN	4		98.8
3/11/2014	2726	1	527	812650	395335	M	2340	PIT RUN	5		99.3
		2	528	812632	395337	M	2340	PIT RUN	5		98.8
		3	529	812614	395342	M	2340	PIT RUN	5		98.8
4/11/2014	2743	1	530	812650	395335	M	2340	PIT RUN	6		98.0
		2	531	812642	395337	M	2340	PIT RUN	6		98.7
		3	532	812614	395342	M	2340	PIT RUN	6		99.8
5/11/2014	2765	1	533	812632	395337	M	2340	PIT RUN	7		98.8
		2	534	812632	395337	M	2340	PIT RUN	7		99.5
		3	535	812614	395342	M	2340	PIT RUN	7		98.9
11/11/2014	2843	1	536	812742	395313	M	2340	PIT RUN	1		100.6
		2	537	812765	395313	M	2340	PIT RUN	1		99.2
		3	538	812783	395311	M	2340	PIT RUN	1		99.4
12/11/2014	2867	1	539	812742	395313	M	2340	PIT RUN	2		99.2
		2	540	812765	395313	M	2340	PIT RUN	2		100.5
		3	541	812783	395311	M	2340	PIT RUN	2		100.3
13/11/2014	2884	1	542	812783	395311	M	2340	PIT RUN	3		98.4
		2	543	812765	395313	M	2340	PIT RUN	3		98.0
		3	544	812742	395313	M	2340	PIT RUN	3		98.1
		4	545	812661	395320	M	2340	PIT RUN	1	2896	90.6
		5	546	812650	395320	M	2340	PIT RUN	1	2896	91.2
		6	547	812661	395334	M	2340	PIT RUN	1	2896	93.9
		7	548	812644	395334	M	2340	PIT RUN	1	2896	95.0
17/11/2014	2896	1	549	812783	395311	M	2340	PIT RUN	4		101.7
		2	550	812765	395313	M	2340	PIT RUN	4		101.0
		3	551	812742	395313	M	2340	PIT RUN	4		99.9
		4	552	812661	395334	M	2340	PIT RUN	1	2884	98.1
		5	553	812644	395334	M	2340	PIT RUN	1	2884	98.3
		6	554	812650	395320	M	2340	PIT RUN	1	2884	92.0
		7	555	812661	395320	M	2340	PIT RUN	1	2884	100.0
18/11/2014	2910	1	556	812783	395311	M	2340	PIT RUN	5		101.0
		2	557	812765	395313	M	2340	PIT RUN	5		98.6
		3	558	812742	395313	M	2340	PIT RUN	5		100.1
18/11/2014	2909	1	559	812644	395334	M	2340	PIT RUN	2		98.8
		2	560	812650	395320	M	2340	PIT RUN	2		100.6
		3	561	812661	395320	M	2340	PIT RUN	2		98.0
		4	562	812661	395334	M	2340	PIT RUN	2		99.6
		5	563	812644	395334	M	2340	PIT RUN	2		98.6
19/11/2014	2920	1	564	812783	395311	M	2340	PIT RUN	6		100.8
		2	565	812765	395313	M	2340	PIT RUN	6		99.3
		3	566	812742	395313	M	2340	PIT RUN	6		99.5
20/11/2014	2940	1	567	812783	395311	M	2340	PIT RUN	7		99.4
		2	568	812765	395313	M	2340	PIT RUN	7		99.6
		3	569	812742	395313	M	2340	PIT RUN	7		98.7
19/11/2014	3015	1	570	812742	395313	M	2340	PIT RUN	8	2951	93.6
		2	571	812765	395313	M	2340	PIT RUN	8	2951	92.2
		3	572	812783	395311	M	2340	PIT RUN	8	2951	93.1
		4	573	812755	395312	M	2340	PIT RUN	8	2951	94.7
20/11/2014	2939	1	574	812650	395320	M	2340	PIT RUN	4		98.8
		2	575	812661	395320	M	2340	PIT RUN	4		99.1
		3	576	812661	395334	M	2340	PIT RUN	4		98.0
		4	577	812644	395334	M	2340	PIT RUN	4		99.9
21/11/2014	2957	1	578	812650	395320	M	2340	PIT RUN	5		98.6
		2	579	812661	395320	M	2340	PIT RUN	5		98.4
		3	580	812661	395334	M	2340	PIT RUN	5		99.3
		4	581	812644	395334	M	2340	PIT RUN	5		98.3
21/11/2014	2951	1	582	812783	395311	M	2340	PIT RUN	8	3019	98.4
		2	583	812765	395313	M	2340	PIT RUN	8	3019	98.1
		3	584	812742	395313	M	2340	PIT RUN	8	3019	98.1
25/11/2014	2980	1	585	812774	395309	M	2320	PIT RUN	1		100.0
		2	586	812774	395309	M	2320	PIT RUN	2		102.6
25/11/2014	2979	1	587	812661	395334	M	2340	PIT RUN	7		99.9
		2	588	812644	395334	M	2340	PIT RUN	7		98.2
		3	589	812650	395320	M	2340	PIT RUN	7		98.8
		4	590	812661	395320	M	2340	PIT RUN	7		100.9
26/11/2014	2993	1	591	812774	395309	M	2320	PIT RUN	3		100.4
		2	592	812774	395309	M	2320	PIT RUN	4		100.3
		3	593	812774	395309	M	2320	PIT RUN	5		100.4
		4	594	812774	395309	M	2320	PIT RUN	6		101.1

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		5	595	812774	395309	M	2320	PIT RUN	7		103.0
		6	596	812774	395309	M	2320	PIT RUN	8		101.1
10/12/2014	3137	1	597	812221	395539	U	2340	PIT RUN	1		98.8
		2	598	812220	395520	U	2340	PIT RUN	1		98.6
		3	599	812218	395500	U	2340	PIT RUN	1		100.3
		4	600	812218	395481	U	2340	PIT RUN	1		99.6
		5	601	812217	395462	U	2340	PIT RUN	1		99.3
		6	602	812217	395443	U	2340	PIT RUN	1		98.7
11/12/2014	3155	1	603	812217	395443	U	2340	PIT RUN	2		98.2
		2	604	812217	395462	U	2340	PIT RUN	2		99.6
		3	605	812218	395481	U	2340	PIT RUN	2		98.4
		4	606	812218	395500	U	2340	PIT RUN	2		98.1
		5	607	812220	395520	U	2340	PIT RUN	2		99.0
		6	608	812221	395539	U	2340	PIT RUN	2		98.4
19/12/2014	2919	1	609	812650	395120	U	2340	PIT RUN	3		98.8
		2	610	812661	395330	U	2340	PIT RUN	3		99.1
		3	611	812644	395334	U	2340	PIT RUN	3		99.7
		4	612	812661	395334	U	2340	PIT RUN	3		100.5
1/12/2014	3023	1	613	812661	395330	M	2340	PIT RUN	9		101.8
		2	614	812650	395120	M	2340	PIT RUN	9		98.7
		3	615	812650	395335	M	2340	PIT RUN	9		99.0
		4	616	812661	395334	M	2340	PIT RUN	9		100.8
15/12/2014	3179	1	617	812217	395443	U	2320	PIT RUN	4		98.6
		2	618	812217	395462	U	2320	PIT RUN	4		98.1
		3	619	812218	395481	U	2320	PIT RUN	4		98.1
		4	620	812218	395500	U	2320	PIT RUN	4		98.3
		5	621	812220	395520	U	2320	PIT RUN	4		98.8
		6	622	812221	395539	U	2320	PIT RUN	4		98.8
16/12/2014	3193	1	623	812207	395443	U	2340	PIT RUN	1		101.4
		2	624	812207	395462	U	2340	PIT RUN	1		101.3
		3	625	812208	395481	U	2340	PIT RUN	1		98.9
		4	626	812208	395500	U	2340	PIT RUN	1		102.0
		5	627	812211	395520	U	2340	PIT RUN	1		102.1
		6	628	812211	395539	U	2340	PIT RUN	1		99.4
1/12/2014	3221	1	629	812207	395443	U	2340	PIT RUN	3		98.8
		2	630	812207	395462	U	2340	PIT RUN	3		99.5
		3	631	812208	395481	U	2340	PIT RUN	3		98.1
		4	632	812208	395500	U	2340	PIT RUN	3		100.1
		5	633	812211	395520	U	2340	PIT RUN	3		98.0
		6	634	812211	395539	U	2340	PIT RUN	3		99.4
17/12/2014	3216	1	635	812207	395443	U	2340	PIT RUN	2		100.3
		2	636	812207	395462	U	2340	PIT RUN	2		98.1
		3	637	812208	395481	U	2340	PIT RUN	2		98.2
		4	638	812208	395500	U	2340	PIT RUN	2		98.3
		5	639	812211	395520	U	2340	PIT RUN	2		98.1
		6	640	812211	395539	U	2340	PIT RUN	2		99.0
18/12/2014	3230	1	641	812207	395443	U	2340	PIT RUN	4		98.9
		2	642	812207	395462	U	2340	PIT RUN	4		98.5
		3	643	812208	395481	U	2340	PIT RUN	4		98.6
		4	644	812208	395500	U	2340	PIT RUN	4		99.1
		5	645	812211	395520	U	2340	PIT RUN	4		98.5
		6	646	812211	395539	U	2340	PIT RUN	4		99.0
13/01/2015	36	1	647	812217	395443	U	2340	PIT RUN	5		98.0
		2	648	812217	395462	U	2340	PIT RUN	5		98.3
		3	649	812218	395481	U	2340	PIT RUN	5		98.1
		4	650	812218	395500	U	2340	PIT RUN	5		98.0
		5	651	812220	395520	U	2340	PIT RUN	5		98.3
		6	652	812221	395539	U	2340	PIT RUN	5		100.0
		7	653	812211	395539	U	2340	PIT RUN	5		98.6
		8	654	812211	395520	U	2340	PIT RUN	5		100.0
		9	655	812208	395500	U	2340	PIT RUN	5		98.5
		10	656	812208	395481	U	2340	PIT RUN	5		98.5
		11	657	812207	395462	U	2340	PIT RUN	5		100.8
		12	658	812207	395443	U	2340	PIT RUN	5		98.4
21/01/2015	120	1	659	812207	395443	U	2320	PIT RUN	6		99.7
		2	660	812207	395462	U	2320	PIT RUN	6		100.3
		3	661	812208	395481	U	2320	PIT RUN	6		100.3
		4	662	812208	395500	U	2320	PIT RUN	6		100.7
		5	663	812211	395520	U	2320	PIT RUN	6		99.4
		6	664	812211	395539	U	2320	PIT RUN	6		99.5
28/01/2015	221	1	672	812217	395443	U	2320	PIT RUN	6		100.4
		2	673	812217	395462	U	2320	PIT RUN	6		99.8
		3	674	812218	395481	U	2320	PIT RUN	6		98.9
		4	675	812218	395500	U	2320	PIT RUN	6		98.1
		5	676	812220	395520	U	2320	PIT RUN	6		99.7
		6	677	812221	395539	U	2320	PIT RUN	6		100.5

Project
 Project No.
 Date
 Title

Prestons South Subdivision
 235361
 19-Nov-14
 Summary of Sand Compaction Results

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
17/03/2014	610	1	1	395263	812581	M	1640	SAND	1		97.9
		2	2	395272	812550	M	1640	SAND	1		102.3
		3	3	395275	812532	M	1640	SAND	1		103.2
		4	4	395278	812502	M	1640	SAND	1		98.1
		5	5	395275	812482	N	1648	SAND	1		100.5
		6	6	395235	812483	N	1640	SAND	1		102.9
		7	7	395233	812498	M	1640	SAND	1		99
		8	8	395232	812517	M	1640	SAND	1		98.5
		9	9	395230	812547	M	1640	SAND	1		95.3
		10	10	395229	812508	M	1640	SAND	1		95.3
19/03/2014	633	1	11	395198	812570	M	1640	SAND	1		100.5
		2	12	395200	812551	M	1640	SAND	1		99.4
		3	13	395201	812532	M	1640	SAND	1		98.6
		4	14	395202	812514	M	1640	SAND	1		99.8
19/03/2014	632	1	15	395203	812581	M	1640	SAND	1		101
		4	16	395277	812514	M	1640	SAND	1		100.2
		6	17	395235	812483	N	1640	SAND	1		100.7
		9	18	395230	812547	M	1640	SAND	1		101.8
		10	19	395229	812568	M	1640	SAND	1		99
		11	20	395246	812576	M	1640	SAND	1		98.7
31/03/2014	760	A1	21	395098	812697	M	1650	SAND	1		97.4
		A2	22	395119	812696	M	1640	SAND	1		100.7
		A3	23	395140	812696	M	1640	SAND	1		95.2
		A4	24	395161	812695	M	1640	SAND	1		95.2
		A5	25	395182	812694	M	1640	SAND	1		97.5
		A6	26	395203	812694	M	1640	SAND	1		96.2
		B1	27	395113	812680	M	1640	SAND	1		99
		B2	28	395134	812679	M	1640	SAND	1		95.3
		B3	29	395155	812679	M	1640	SAND	1		101.7
		B4	30	395176	812678	M	1640	SAND	1		95.5
		B5	31	395197	812677	M	1640	SAND	1		98.7
		B6	32	395218	812677	M	1640	SAND	1		97
		B7	33	395239	812676	M	1640	SAND	1		95.9
		C8	34	395113	812657	M	1640	SAND	1		95.2
		C7	35	395134	812657	M	1640	SAND	1		95.8
		C6	36	395155	812656	M	1640	SAND	1		96.2
		C5	37	395176	812656	M	1640	SAND	1		98.3
		C4	38	395197	812655	M	1640	SAND	1		99.1
		C3	39	395218	812654	M	1640	SAND	1		95.2
		C2	40	395239	812654	M	1640	SAND	1		95.5
3/04/2014	789	C1	41	395260	812653	M	1640	SAND	1		98.4
		1	42	395087	812516	M	1640	SAND	1		104.7
		2	43	395106	812516	M	1640	SAND	1		97.7
		3	44	395126	812518	M	1640	SAND	1		100.8
		4	45	395146	812518	M	1640	SAND	1		103.5
		5	46	395167	812520	M	1640	SAND	1		99.8
		6	47	395166	812537	M	1640	SAND	1		103
		7	48	395145	812536	M	1640	SAND	1		100.1
		8	49	395124	812535	M	1640	SAND	1		101.2
		9	50	395105	812534	M	1640	SAND	1		97.8
		10	51	395085	812533	M	1640	SAND	1		99.8
		11	52	395085	812551	M	1640	SAND	1		98.5
		12	53	395104	812551	M	1640	SAND	1		101.5
		13	54	395124	812553	M	1640	SAND	1		101.5
		14	55	395144	812553	M	1640	SAND	1		101.8
		15	56	395165	812555	M	1640	SAND	1		98.7
		16	57	395164	812578	M	1640	SAND	1		102.8
		17	58	395142	812580	M	1640	SAND	1		103.8
		18	59	395122	812576	M	1640	SAND	1		97.9
		19	60	395103	812575	M	1640	SAND	1		101.1
3/04/2014	790	20	61	395083	812574	M	1640	SAND	1		100.2
		1	62	395078	812593	M	1640	SAND	1		102.4
		2	63	395090	812593	M	1640	SAND	1		105
		3	64	395101	812593	M	1640	SAND	1		101.8
		4	65	395112	812593	M	1640	SAND	1		103.2
		5	66	395121	812594	M	1640	SAND	1		105.8
		6	67	395132	812595	M	1640	SAND	1		101
		7	68	395144	812595	M	1640	SAND	1		106.2
		8	69	395159	812595	M	1640	SAND	1		105
		9	70	395173	812595	M	1640	SAND	1		105.9
		10	71	395186	812595	M	1640	SAND	1		104.1
		11	72	395186	812611	M	1640	SAND	1		102.5
		12	73	395172	812611	M	1640	SAND	1		101.4
		13	74	395158	812611	M	1640	SAND	1		102.2
		14	75	395144	812611	M	1640	SAND	1		106
		15	76	395132	812611	M	1640	SAND	1		103.5
		16	77	395120	812610	M	1640	SAND	1		103.9
		17	78	395111	812610	M	1640	SAND	1		99.2
		18	79	395101	812610	M	1640	SAND	1		105.3

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		19	80	395090	812610	M	1640	SAND	1		102.1
		20	81	395078	812609	M	1640	SAND	1		103.2
		21	82	395074	812631	M	1640	SAND	1		102.5
		22	83	395080	812632	M	1640	SAND	1		107.3
		23	84	395097	812632	M	1640	SAND	1		100
		24	85	395108	812632	M	1640	SAND	1		104.7
		25	86	395117	812633	M	1640	SAND	1		103.7
		26	87	395128	812633	M	1640	SAND	1		106.6
		27	88	395140	812633	M	1640	SAND	1		102.8
		28	89	395155	812633	M	1640	SAND	1		103.6
		29	90	395160	812634	M	1640	SAND	1		104.9
		30	91	395182	812634	M	1640	SAND	1		98.9
4/04/2014	815	1	92	395068	812743	M	1640	SAND	1		96.4
		2	93	395083	812737	M	1640	SAND	1		101.9
		3	94	395094	812728	M	1640	SAND	1		100.1
		4	95	395102	812720	M	1640	SAND	1		96.6
		5	96	395109	812709	M	1640	SAND	1		95.4
		6	97	395073	812702	M	1640	SAND	1		97.9
17/04/2014	934	1	98	395072	812690	M	1680	SAND	1		99.1
		2	99	395070	812723	M	1680	SAND	1		96.9
		3	100	395068	812745	M	1680	SAND	1		98
		4	101	395089	812745	M	1680	SAND	1		99.7
		5	102	395090	812724	M	1680	SAND	1		97.6
		6	103	395093	812691	M	1680	SAND	1		98.2
		7	104	395110	812700	M	1680	SAND	1		98.6
		8	105	395108	812725	M	1680	SAND	1		98.3
		9	106	395106	812745	M	1680	SAND	1		101.5
		10	107	395122	812746	M	1680	SAND	1		96.7
		11	108	395139	812726	M	1680	SAND	1		101
		12	109	395150	812708	M	1680	SAND	1		96.4
		13	110	395152	812747	M	1680	SAND	1		97.6
		14	111	395190	812747	M	1680	SAND	1		96.2
24/04/2014	958	1	112	395103	812575	M	1620	SAND	2		97.8
		2	113	395104	812551	M	1620	SAND	2		98.1
		3	114	395105	812534	M	1620	SAND	2		99.9
		4	115	395106	812516	M	1620	SAND	2		99.9
		5	116	395142	812580	M	1620	SAND	2		101.2
		6	117	395144	812553	M	1620	SAND	2		100
		7	118	395145	812536	M	1620	SAND	2		101.7
		8	119	395146	812518	M	1620	SAND	2		102.7
5/05/2014	1001	1	120	395104	812398	N	1620	SAND	1		106
		2	121	395106	812379	N	1620	SAND	1		105
		3	122	395106	812357	N	1620	SAND	1		104.5
		4	123	395108	812340	N	1620	SAND	1		101.2
		5	124	395131	812341	N	1620	SAND	1		105.7
		6	125	395129	812358	N	1620	SAND	1		106.3
		7	126	395128	812379	N	1620	SAND	1		104.5
		8	127	395127	812399	N	1620	SAND	1		106.8
		9	128	395148	812401	N	1620	SAND	1		105.1
		10	129	395150	812380	N	1620	SAND	1		105.2
		11	130	395152	812361	N	1620	SAND	1		104.6
		12	131	395152	812347	N	1620	SAND	1		102
		13	132	395178	812343	N	1620	SAND	1		102.9
		14	133	395178	812362	N	1620	SAND	1		104.5
		15	134	395177	812380	N	1620	SAND	1		104.1
		16	135	395175	812403	N	1620	SAND	1		105.8
9/05/2014	1073	1	136	395108	812325	N	1620	SAND	1		103.9
		2	137	395131	812325	N	1620	SAND	1		102
		3	138	395132	812305	N	1620	SAND	1		102.7
		4	139	395109	812304	N	1620	SAND	1		101.3
		5	140	395157	812328	N	1620	SAND	1		98.3
		6	141	395178	812329	N	1620	SAND	1		106.8
		7	142	395195	812310	N	1620	SAND	1		97.1
		8	143	395178	812311	N	1620	SAND	1		98.1
		9	144	395196	812312	N	1620	SAND	1		98.3
		10	145	395215	812313	N	1620	SAND	1		103.7
		11	146	395213	812332	N	1620	SAND	1		104.3
		12	147	395194	812331	N	1620	SAND	1		105
		13	148	395193	812348	N	1620	SAND	1		105.3
		14	149	395212	812348	N	1620	SAND	1		103.9
		15	150	395211	812367	N	1620	SAND	1		102.5
		16	151	395190	812366	N	1620	SAND	1		104.9
		17	152	395187	812384	N	1620	SAND	1		103.8
		18	153	395210	812385	N	1620	SAND	1		99.8
		19	154	395209	812405	N	1620	SAND	1		98.9
		20	155	395185	812404	N	1620	SAND	1	1089	94.3
12/05/2014	1089	1	156	395185	812404	N	1620	SAND	1		100.8
		2	157	395209	812405	N	1620	SAND	1		99.6
		3	158	395237	812418	N	1620	SAND	1		100.7
		4	159	395238	812399	N	1620	SAND	1		101.3
		5	160	395241	812380	N	1620	SAND	1		104.9
		6	161	395242	812361	N	1620	SAND	1		102.1
		7	162	395242	812341	N	1620	SAND	1		99.1
		8	163	395244	812321	N	1620	SAND	1		103.7
		9	164	395267	812322	N	1620	SAND	1		102.3
		10	165	395265	812342	N	1620	SAND	1		102.8

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		11	166	395265	812362	N	1620	SAND	1		101.8
		12	167	395263	812381	N	1620	SAND	1		99.6
		13	168	395261	812399	N	1620	SAND	1		98.7
		14	169	395260	812419	N	1620	SAND	1		106.4
16/05/2014	1136	1	170	395235	812483	N	1620	SAND	1		101.8
		2	171	395268	812487	N	1620	SAND	1		99.2
		3	172	395267	812506	M	1620	SAND	1		108
		4	173	395243	812504	M	1620	SAND	1		98.2
		5	174	395240	812439	N	1620	SAND	1		99.6
		6	175	395260	812441	N	1620	SAND	1		103.3
		7	176	395281	812442	N	1620	SAND	1		102.5
		8	177	395277	812416	N	1620	SAND	1		104.7
		9	178	395279	812396	N	1620	SAND	1		100.9
		10	179	395280	812378	N	1620	SAND	1		100.4
		11	180	395282	812360	N	1620	SAND	1		103.3
		12	181	395287	812338	N	1620	SAND	1		105.7
		13	182	395289	812320	N	1620	SAND	1		105.7
19/05/2014	1148	42	183	395181	812507	M	1620	SAND	1		101.5
		34	184	395153	812504	M	1620	SAND	1		107.3
		33	185	395106	812497	M	1620	SAND	1		108.1
		55	186	395107	812477	N	1620	SAND	1		109.3
		73	187	395153	812481	N	1620	SAND	1		100.5
		74	188	395177	812484	N	1620	SAND	1		102.9
		75	189	395197	812484	N	1620	SAND	1		104.7
		76	190	395195	812441	N	1620	SAND	1		103.3
		77	191	395195	812427	N	1620	SAND	1		100.8
		71	192	395160	812420	N	1620	SAND	1		103.5
		72	193	395159	812438	N	1620	SAND	1		98.1
		56	194	395109	812457	N	1620	SAND	1		102
		57	195	395111	812434	N	1620	SAND	1		103.6
		58	196	395111	812414	N	1620	SAND	1		103.6
21/05/2014	1175	64	197	395109	812304	N	1620	SAND	2		98.9
		63	198	395108	812325	N	1620	SAND	2		100.3
		62	199	395108	812340	N	1620	SAND	2		100.3
		61	200	395106	812357	N	1620	SAND	2		97.7
		60	201	395106	812379	N	1620	SAND	2		99.9
		59	202	395104	812398	N	1620	SAND	2		101.4
		70	203	395148	812401	N	1620	SAND	2		99
		69	204	395150	812380	N	1620	SAND	2		99.6
		68	205	395152	812361	N	1620	SAND	2		100.5
		67	206	395152	812347	N	1620	SAND	2		99.9
		66	207	395157	812328	N	1620	SAND	2		98.6
		65	208	395155	812310	N	1620	SAND	2		97.1
		83	209	395196	812312	N	1620	SAND	2		97.3
		82	210	395194	812311	N	1620	SAND	2		99.3
		81	211	395193	812348	N	1620	SAND	2		99.4
		80	212	395190	812366	N	1620	SAND	2		95.9
		79	213	395187	812384	N	1620	SAND	2		97.7
		78	214	395185	812404	N	1620	SAND	2		98.2
		89	215	395238	812399	N	1620	SAND	2		98.7
		88	216	395241	812380	N	1620	SAND	2		97.4
		87	217	395242	812361	N	1620	SAND	2		96
		99	218	395282	812360	N	1620	SAND	2		100.8
		98	219	395280	812378	N	1620	SAND	2		101.4
		97	220	395279	812396	N	1620	SAND	2		106.6
3/06/2014	1282	100	236	395287	812338	N	1640	SAND	2		97
		86	237	395242	812341	N	1640	SAND	2		96.6
		85	238	395244	812321	N	1640	SAND	2		100.1
		101	239	395289	812320	N	1640	SAND	2		99.9
16/06/2014	1349	103	247	395319	812448	N	1560	SAND	1		107.2
		104	248	395324	812423	N	1560	SAND	1		106.6
		105	249	395327	812393	N	1560	SAND	1		108.2
		106	250	395330	812355	N	1560	SAND	1		104.9
		107	251	395333	812322	N	1560	SAND	1		103.4
10/07/2014	1582	1	276	395294	812617	M	1640	SAND	1		99.6
		2	277	395287	812648	M	1640	SAND	1		103.5
		3	278	395283	812684	M	1640	SAND	1		95.1
		4	279	395281	812714	M	1640	SAND	1		96.4
		5	280	395278	812744	M	1640	SAND	1		96.2
		6	281	395291	812764	M	1640	SAND	1		98.4
14/07/2014	1619	1	302	395279	812617	M	1700	SAND	1		96
		2	303	395286	812667	M	1700	SAND	1		98.1
		3	304	395270	812724	M	1700	SAND	1		96.3
4/08/2014	1796	1	357	395305	812514	M	1640	SAND	1		99.6
		2	358	395307	812494	M	1640	SAND	1		98.8
5/08/2014	1809	1	359	395304	812576	M	1640	SAND	1		103.2
		2	360	395307	812556	M	1640	SAND	1		104.4
		3	361	395310	812523	M	1640	SAND	1		96.8
		4	362	395315	812494	M	1640	SAND	1		99.1
		5	363	395319	812476	N	1640	SAND	1		99.5
30/08/2014	2075	1	464	395377	812690	M	1600	SAND	1		101.9
		2	465	395371	812711	M	1600	SAND	1		103.8
		3	466	395369	812730	M	1600	SAND	1		101.3
		4	467	395366	812751	M	1600	SAND	1		101.5
		5	468	395364	812771	M	1600	SAND	1		99.2
		9	497	395378	812630	M	1600	SAND	1		102.1

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		10	498	395375	812650	M	1600	SAND	1		100
		11	499	395374	812672	M	1600	SAND	1		102.1
25/09/2014	2314	1	552	395361	812790	M	1600	SAND	1		107
20/10/2014	2593	1	643	395213	812793	M	1600	SAND	1		98.1
		2	644	395254	812794	M	1600	SAND	1		100.7
		3	645	395283	812795	M	1600	SAND	1		97.5
21/10/2014	2605	1	663	395223	812793	M	1600	SAND	2		104.5
		2	664	395254	812794	M	1600	SAND	2		101.3
		3	665	395283	812795	M	1600	SAND	2		99.9
22/10/2014	2619	1	666	395223	812793	M	1600	SAND	3		105.4
		2	667	395254	812794	M	1600	SAND	3		107.1
		3	668	395283	812795	M	1600	SAND	3		101.3
30/10/2014	2688	1	708	395217	812621	M	1640	SAND	1		105.1
		2	709	395310	812613	M	1640	SAND	1	2720	94.3
		3	710	395303	812620	M	1640	SAND	1		97.7
		4	711	395290	812624	M	1640	SAND	1		99.5
4/11/2014	2746	1	742	395317	812621	M	1640	SAND	2		97.6
		2	743	395294	812617	M	1640	SAND	2		98.2
		3	744	395283	812629	M	1640	SAND	1		98.3
		4	745	395268	812629	M	1640	SAND	1		99
5/11/2014	2769	1	758	395313	812631	M	1640	SAND	1	2790	91.2
6/11/2014	2790	1	759	395313	812631	M	1640	SAND	1	2812	94.8
		2	760	395297	812631	M	1640	SAND	1	2812	94
		3	761	395296	812639	M	1640	SAND	1		97.5
		4	762	395295	812648	M	1640	SAND	1		98.1
7/11/2014	2812	1	779	395313	812631	M	1620	SAND	1	2769/2790	97
		2	780	395297	812631	M	1620	SAND	1	2790	100.1
10/11/2014	2832	1	794	395303	812672	M	1620	SAND	1		102.7
		2	795	395286	812671	M	1620	SAND	1		102.2
		3	796	395294	812691	M	1620	SAND	1		99.8
		4	797	395303	812708	M	1620	SAND	1		106.8
		5	798	395281	812718	M	1620	SAND	1		98.5
2/12/2014	3042	1	861	395235	812776	M	1640	SAND	1		102.2
		2	862	395216	812775	M	1640	SAND	1		101.9
		3	863	395197	812774	M	1640	SAND	1		103.7
		4	864	395179	812773	M	1640	SAND	1		103.5
		5	865	395160	812772	M	1640	SAND	1		102.9
		6	866	395135	812770	M	1640	SAND	1		103.2
		7	867	395111	812763	M	1640	SAND	1		115
		8	868	395113	812794	M	1640	SAND	1		109.5
		9	869	395134	812803	M	1640	SAND	1		99.9
		10	870	395152	812797	M	1640	SAND	1		101.5
		11	871	395172	812803	M	1640	SAND	1		101
		12	872	395189	812799	M	1640	SAND	1		100.3
		13	873	395218	812801	M	1640	SAND	1		98.5
		14	874	395240	812753	M	1640	SAND	1		120.1
		15	875	395205	812749	M	1640	SAND	1		108.3
		16	876	395181	812741	M	1640	SAND	1		110.9
4/12/2014	3024	1	877	395218	812801	M	1640	SAND	2		100.9
		2	878	395235	812776	M	1640	SAND	2		100.1
		3	879	395240	812753	M	1640	SAND	2		97.8
		4	880	395205	812749	M	1640	SAND	2		98.4
		5	881	395160	812772	M	1640	SAND	2		98.2
		6	882	395111	812763	M	1640	SAND	2		97.9
		7	883	395113	812794	M	1640	SAND	2		97.4
		8	884	395152	812797	M	1640	SAND	2		101.2
		9	885	395189	812799	M	1640	SAND	2		100.2
31/10/2014	2680	1	888	395310	812613	M	1640	SAND	1		96.5
17/12/2014	3222	1	896	395088	812799	M	1600	SAND	2		99.3
		2	897	395116	812802	M	1600	SAND	2		104.6
		3	898	395134	812803	M	1600	SAND	2		101.4
		4	899	395172	812803	M	1600	SAND	2		102.9
		5	900	395200	812809	M	1600	SAND	2		99.9
		6	901	395222	812810	M	1600	SAND	2		100.8
		7	902	395236	812811	M	1600	SAND	2		97
		8	903	395250	812811	M	1600	SAND	1		98.3
		9	904	395268	812813	M	1600	SAND	1		100.1
		10	905	395281	812814	M	1600	SAND	1		100.5
		11	906	395294	812814	M	1600	SAND	1		98.4
		12	907	395281	812844	M	1600	SAND	1		101.6