

IGSL Ltd
Materials Laboratory
Unit J5,M7 Business Park
Naas Co.Kildare
045 899324

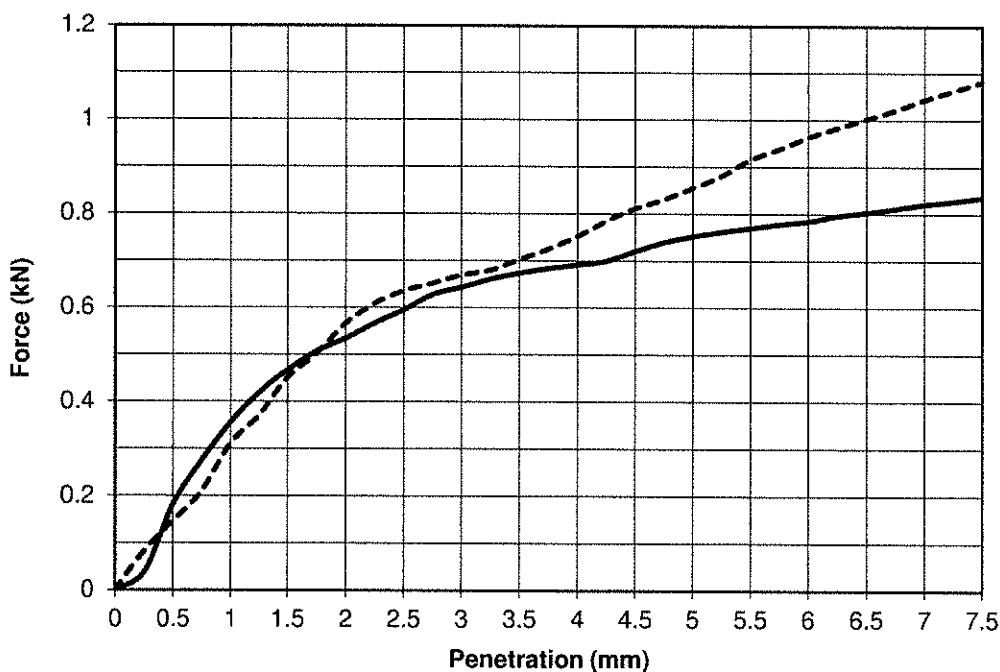
TEST REPORT

Determination of California Bearing Ratio (CBR)



Tested in accordance with BS1377:Part 4:1990, clause 7

Report No.	R147905	Contract	Monaghan Town Active Travel Development Site
Contract No.	24665/1	Customer	Cora
Date received	09/06/23	Date Tested	15/06/23
BH/TP No.*	TP03	Sample No.*	AA200179 Type: B
Depth* (m)	0.60	Lab sample No.	A23/1717



Key: ————— Top - - - - - Base

Description: Grey brown sandy gravelly CLAY

Initial Condition: Unsoaked

Moisture Content (%): 12 Bulk Density (Mg/m³): 2.03

Surcharge (kg): 4 Dry Density (Mg/m³): 1.82

% Material >20mm: 10

Method of compaction: Static Compaction Method 2

Test Result	Top	Base
CBR %	4.5	4.8
Moisture Content %	12	11

Results relate only to the specimen tested, in as received condition unless otherwise noted

Opinions and interpretations are outside the scope of accreditation.

* denotes Customer supplied information

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Persons authorized to approve reports

J Barrett (Quality Manager)

H Byrne (Laboratory Manager)

IGSL Ltd Materials Laboratory


Approved by

Date

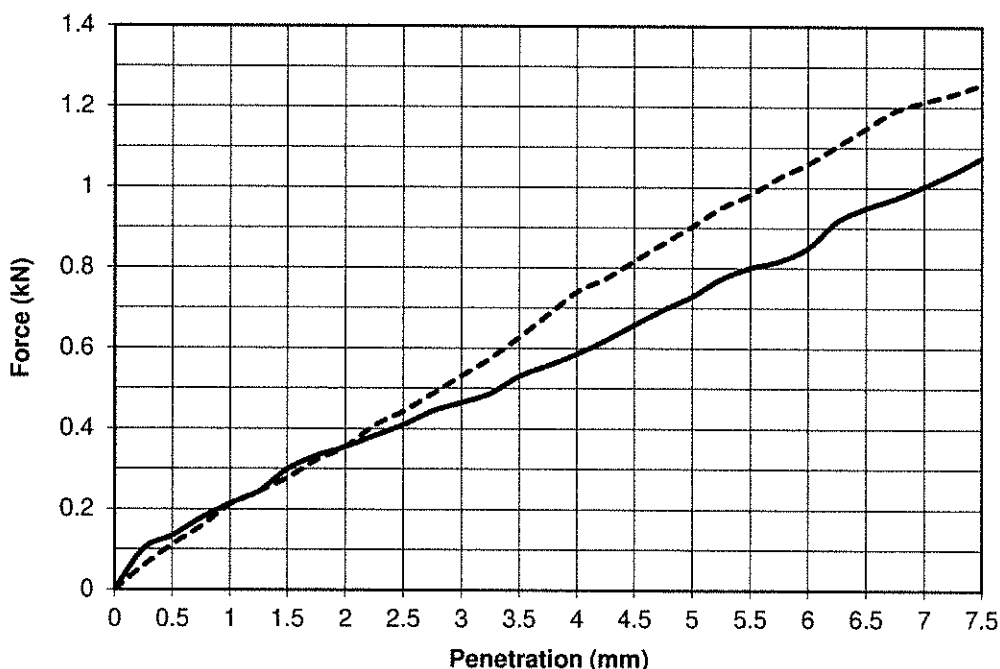
Page No.

18/07/23

1 of 1

IGSL Ltd Materials Laboratory Unit J5,M7 Business Park Naas Co.Kildare 045 899324	TEST REPORT Determination of California Bearing Ratio (CBR)		
	Tested in accordance with BS1377:Part 4:1990, clause 7		

Report No.	R147906	Contract	Monaghan Town Active Travel Development Site
Contract No.	24665/1	Customer	Cora
Date received	09/06/23	Date Tested	15/06/23
BH/TP No.*	TP05	Sample No.*	AA200182 Type: B
Depth* (m)	0.70	Lab sample No.	A23/1718



Key: ————— Top - - - - - Base

Description: Brown slightly sandy, slightly gravelly, SILT/CLAY			
Initial Condition:		Unsoaked	
Moisture Content (%):	13	Bulk Density (Mg/m ³):	2.08
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.83
% Material >20mm:	10		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	3.7	4.5
Moisture Content %	14	13

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		18/07/23	1 of 1

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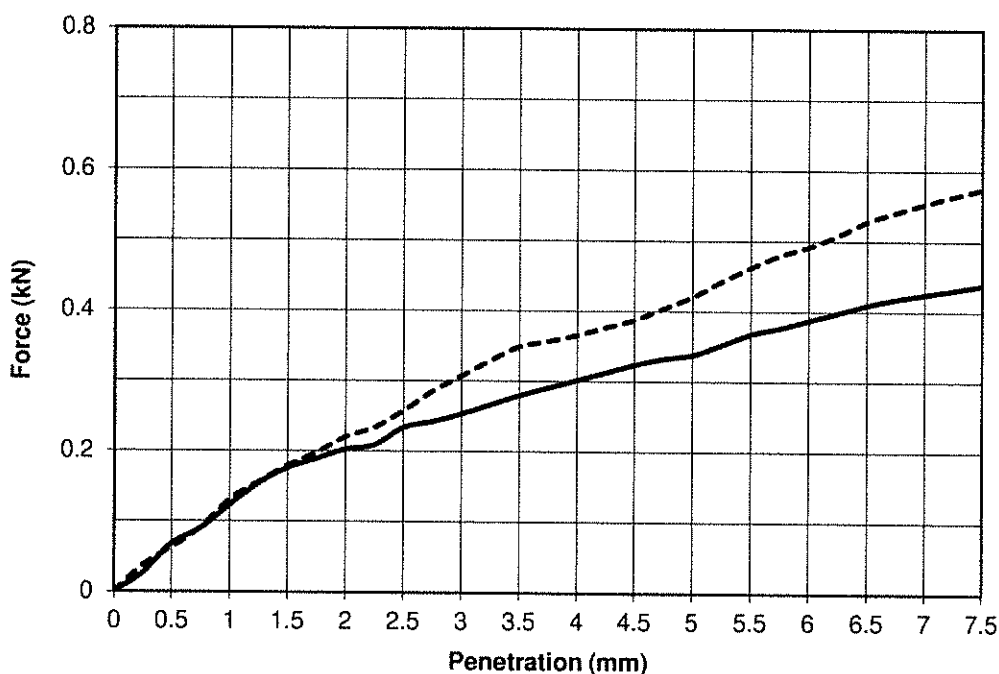
TEST REPORT

Determination of California Bearing Ratio (CBR)



Tested in accordance with BS1377:Part 4:1990, clause 7

Report No.	R147907	Contract	Monaghan Town Active Travel Development Site
Contract No.	24665/1	Customer	Cora
Date received	09/06/23	Date Tested	15/06/23
BH/TP No.*	TP09	Sample No.*	AA200191 Type: B
Depth* (m)	0.70	Lab sample No.	A23/1719



Key: ————— Top - - - - - Base

Description: Grey brown sandy, slightly gravelly, SILT/CLAY

Initial Condition: Unsoaked

Moisture Content (%): 14 Bulk Density (Mg/m³): 2.11

Surcharge (kg): 4 Dry Density (Mg/m³): 1.85

% Material >20mm: 13

Method of compaction: Static Compaction Method 2

Test Result	Top	Base
CBR %	1.8	2.1
Moisture Content %	14	14

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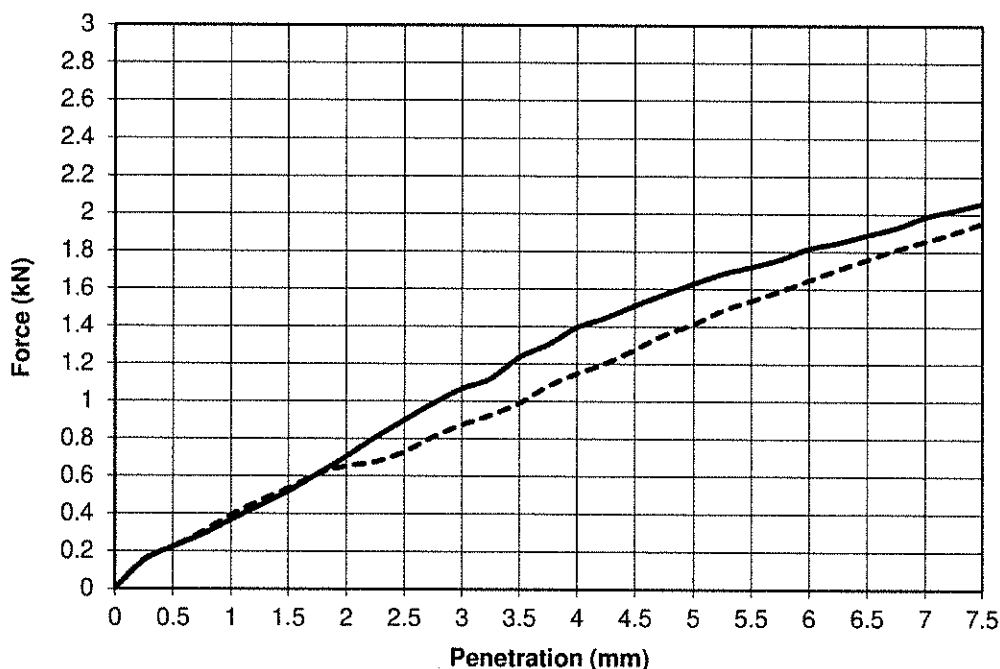
Page No.

18/07/23

1 of 1

IGSL Ltd Materials Laboratory Unit J5,M7 Business Park Naas Co.Kildare 045 899324	TEST REPORT Determination of California Bearing Ratio (CBR)		
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Report No.	R147908	Contract	Monaghan Town Active Travel Development Site
Contract No.	24665/1	Customer	Cora
Date received	09/06/23	Date Tested	15/06/23
BH/TP No.*	TP12	Sample No.*	AA205178 Type: B
Depth* (m)	0.80	Lab sample No.	A23/1720



Key: ————— Top - - - - - Base

Description: Brown slightly sandy, gravelly, SILT/CLAY			
Initial Condition:		Unsoaked	
Moisture Content (%):	10	Bulk Density (Mg/m ³):	2.15
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.95
% Material >20mm:	21		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	8.2	7.1
Moisture Content %	10	10

Results relate only to the specimen tested, in as received condition unless otherwise noted

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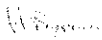
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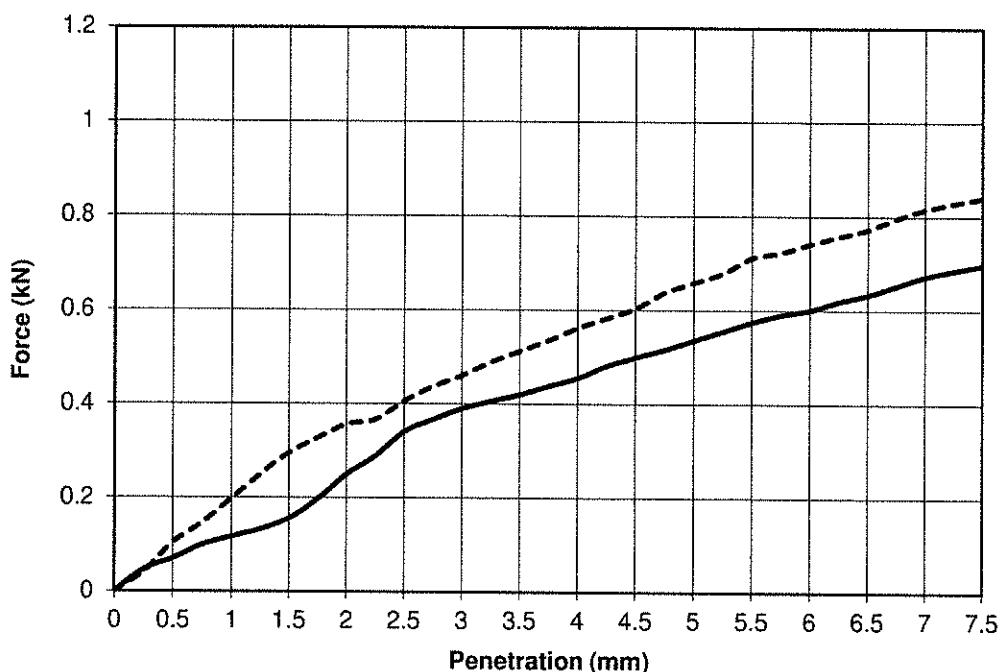
J Barrett (Quality Manager)

H Byrne (Laboratory Manager)

IGSL Ltd Materials Laboratory	Approved by	Date	Page No.
		18/07/23	1 of 1

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Report No.	R147909	Contract	Monaghan Town Active Travel Development Site
Contract No.	24665/1	Customer	Cora
Date received	09/06/23	Date Tested	15/06/23
BH/TP No.*	TP14	Sample No.*	AA205176 Type: B
Depth* (m)	1.50	Lab sample No.	A23/1721



Key: ————— Top - - - - - Base

Description: Grey brown slightly sandy, gravelly, SILT/CLAY			
Initial Condition:		Unsoaked	
Moisture Content (%):	14	Bulk Density (Mg/m ³):	2.04
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.79
% Material >20mm:	15		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	2.7	3.3
Moisture Content %	14	13

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	<i>H Byrne</i>	18/07/23	1 of 1

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Test Report

Dry Density/Moisture Content Relationship

Tested in accordance with BS1377:Part 4:1990



Report No. R147910

Contract No. 24665/1

Contract Name: Monaghan Town Active Travel Development Site

Location*: TP01

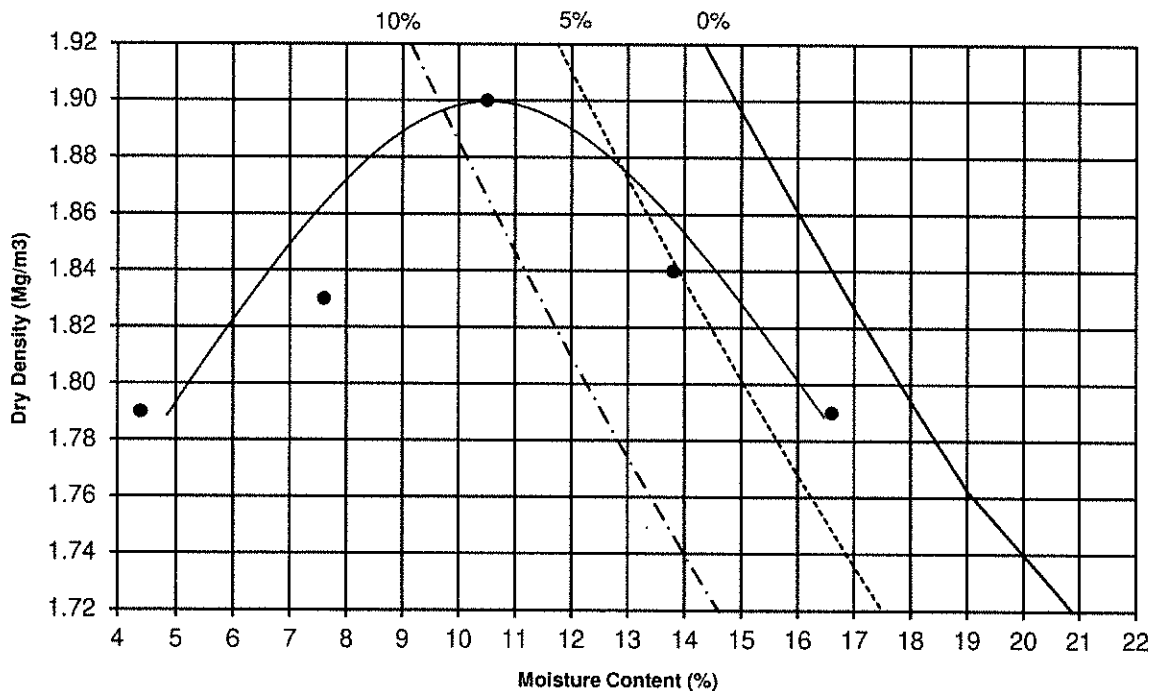
Sample No*. AA200193 Depth* (m) 0.7 Material Type B

Lab sample no. A23/1716 Customer: CORA

Date Received: 09/06/2023 Test Method: 2.5 Kg Rammer

Date Tested: 03/07/2023 BS1377:Part 4:1990 3.3

Dry Density (Mg/m ³)	1.90	1.79	1.83	1.84	1.79		
Moisture Content (%)	11	4.4	7.6	14	17	0	



Maximum Dry Density (Mg/m³): 1.90 Optimum Moisture Content (%): 11

Description: Brown sandy gravelly SILT/CLAY

Sample Preparation: Material passing 20mm Single / Separate samples used

Particle Density (Mg/m³): 2.65 Particle Density: Assumed

% retained on 20/37.5mm sieve: 13

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18/07/23

1 of 1

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Test Report

Dry Density/Moisture Content Relationship

Tested in accordance with BS1377:Part 4:1990



Report No. R147911

Contract No. 24665/1

Contract Name: Monaghan Town Active Travel Development Site

Location*: TP03

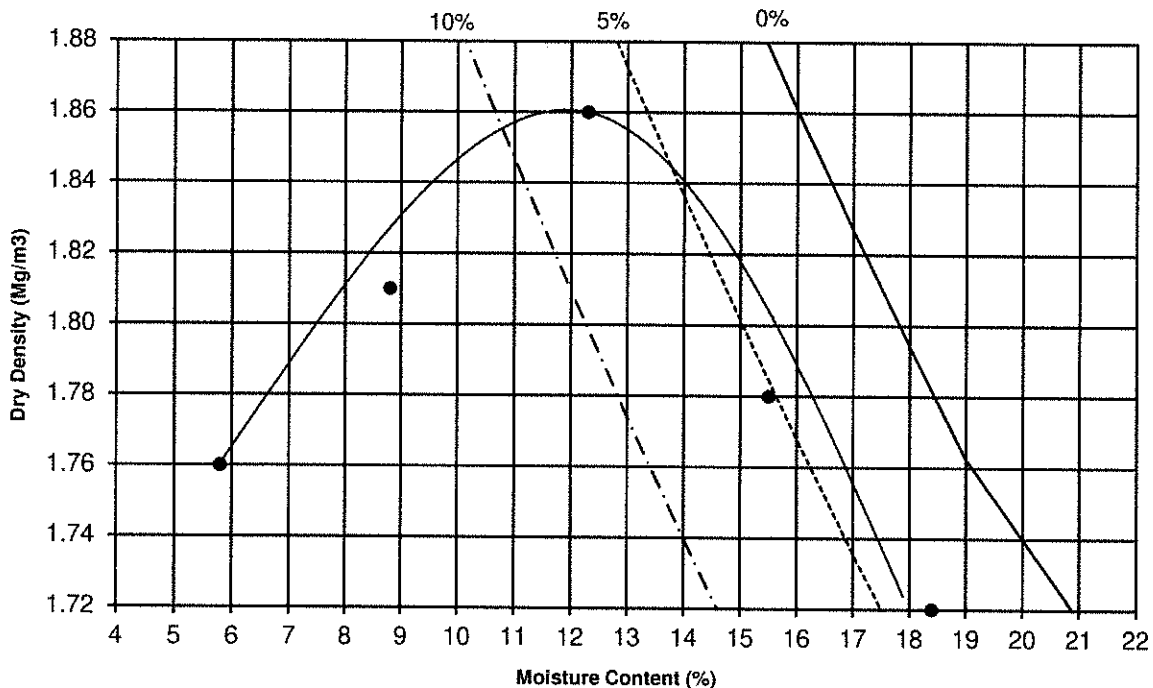
Sample No*. AA200179 Depth* (m) 0.7 Material Type B

Lab sample no. A23/1717 Customer: CORA

Date Received: 09/06/2023 Test Method: 2.5 Kg Rammer

Date Tested: 03/07/2023 BS1377:Part 4:1990 3.3

Dry Density (Mg/m ³)	1.86	1.76	1.81	1.78	1.72		
Moisture Content (%)	12	5.8	8.8	16	18	0	



Maximum Dry Density (Mg/m³): 1.86 Optimum Moisture Content (%): 12

Description: Brown sandy gravelly SILT/CLAY

Sample Preparation: Material passing 20mm Single / Separate samples used

Particle Density (Mg/m³): 2.65 Particle Density: Assumed

% retained on 20/37.5mm sieve: 10

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Page

18/07/23

1 of 1

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Test Report

Dry Density/Moisture Content Relationship

Tested in accordance with BS1377:Part 4:1990



Report No. R147912

Contract No. 24665/1

Contract Name: Monaghan Town Active Travel Development Site

Location*: TP05

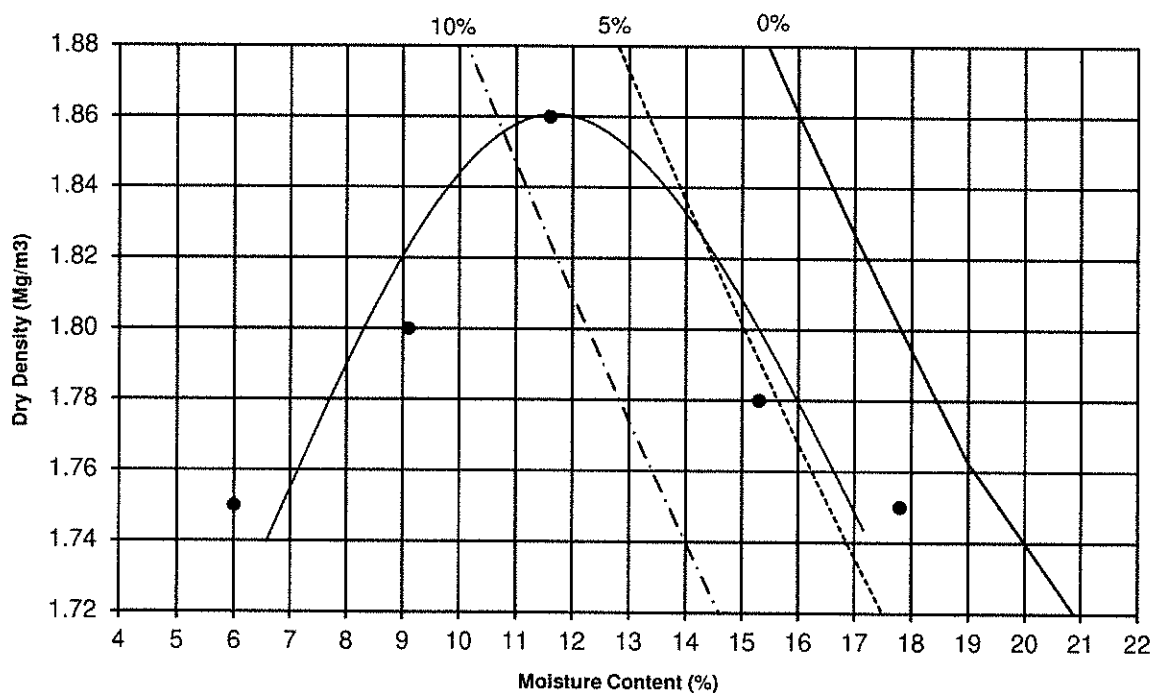
Sample No*. AA200182 Depth* (m) 0.7 Material Type B

Lab sample no. A23/1718 Customer: CORA

Date Received: 09/06/2023 Test Method: 2.5 Kg Rammer

Date Tested: 03/07/2023 BS1377:Part 4:1990 3.3

Dry Density (Mg/m ³)	1.86	1.75	1.80	1.78	1.75		
Moisture Content (%)	12	6.0	9.1	15	18	0	



Maximum Dry Density (Mg/m³): 1.86 Optimum Moisture Content (%): 12

Description: Brown slightly sandy, slightly gravelly, SILT/CLAY

Sample Preparation: Material passing 20mm Single / Separate samples used

Particle Density (Mg/m³): 2.65 Particle Density: Assumed

% retained on 20/37.5mm sieve: 10

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Page

18/07/23

1 of 1

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Test Report

Dry Density/Moisture Content Relationship

Tested in accordance with BS1377:Part 4:1990



Report No. R147913

Contract No. 24665/1

Contract Name: Monaghan Town Active Travel Development Site

Location*: TP09

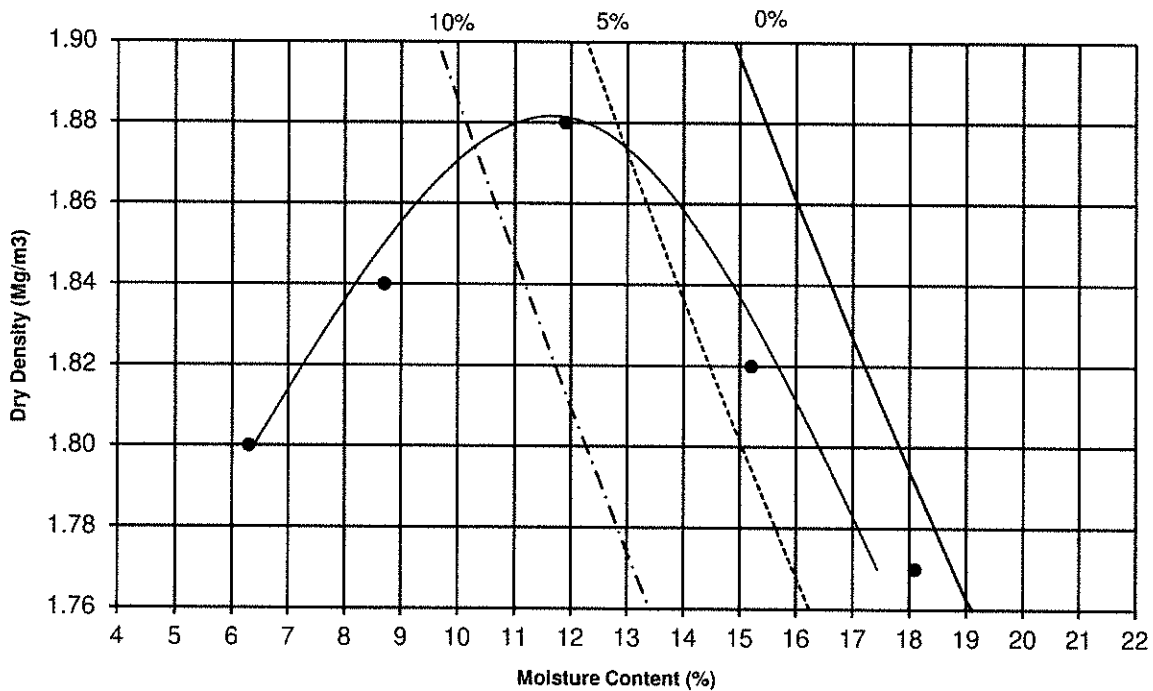
Sample No*. AA200191 Depth* (m) 0.7 Material Type B

Lab sample no. A23/1719 Customer: CORA

Date Received: 09/06/2023 Test Method: 2.5 Kg Rammer

Date Tested: 03/07/2023 BS1377:Part 4:1990 3.3

Dry Density (Mg/m ³)	1.88	1.80	1.84	1.82	1.77		
Moisture Content (%)	12	6.3	8.7	15	18	0	



Maximum Dry Density (Mg/m³): 1.88 Optimum Moisture Content (%): 12

Description: Grey brown sandy, slightly gravelly, SILT/CLAY

Sample Preparation: Material passing 20mm Single / Separate samples used

Particle Density (Mg/m³): 2.65 Particle Density: Assumed

% retained on 20/37.5mm sieve: 13

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1 of 1

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Test Report

Dry Density/Moisture Content Relationship

Tested in accordance with BS1377:Part 4:1990



Report No. R147914

Contract No. 24665/1

Contract Name: Monaghan Town Active Travel Development Site

Location*: TP12

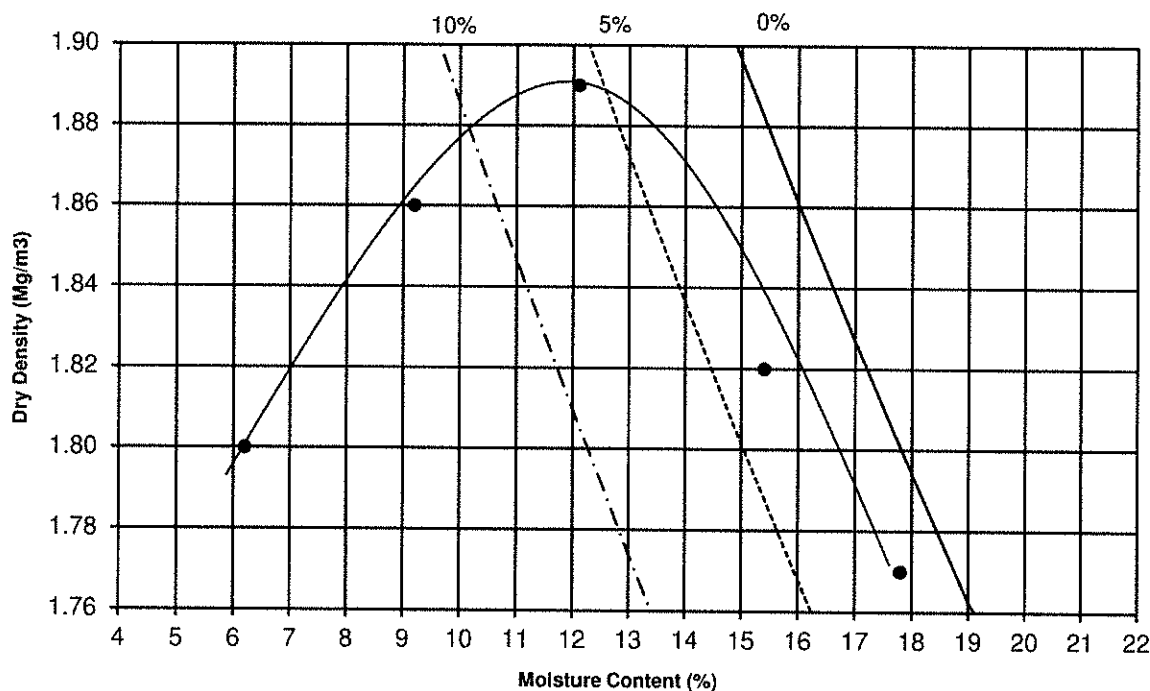
Sample No*. AA205179 Depth* (m) 0.8 Material Type B

Lab sample no. A23/1720 Customer: CORA

Date Received: 09/06/2023 Test Method: 2.5 Kg Rammer

Date Tested: 03/07/2023 BS1377:Part 4:1990 3.3

Dry Density (Mg/m ³)	1.89	1.80	1.86	1.82	1.77		
Moisture Content (%)	12	6.2	9.2	15	18	0	



Maximum Dry Density (Mg/m³): 1.89 Optimum Moisture Content (%): 12

Description: Brown slightly sandy, gravelly, SILT/CLAY

Sample Preparation: Material passing 20mm Single / Separate samples used

Particle Density (Mg/m³): 2.65 Particle Density: Assumed

% retained on 20/37.5mm sieve: 19

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1 of 1