

Appendix G Geotechnical Laboratory Test Results



LABORATORY REPORT



Contract Number: PSL24/5600

Report Date: 27 August 2024
Client's Reference: STV5936
Client Name: Soiltechnics
Cedar Barn
White Lodge
Walgrave
Northamptonshire
NN6 9PY

For the attention of: Sam Dean/David Haddock

Contract Title: Cowm Top

Date Received: 1/8/2024
Date Commenced: 1/8/2024
Date Completed: 27/8/2024

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH01	5	B	0.40	1.20	Brown slightly gravelly very sandy CLAY.
BH01	6	B	1.20	1.65	Brown slightly gravelly sandy CLAY.
BH01	7	D	1.20	1.65	Brown slightly gravelly sandy CLAY.
BH01	10	UT	2.00	2.45	Stiff brown slightly gravelly sandy CLAY.
BH01	11	D	3.00	3.45	Brown slightly gravelly sandy CLAY.
BH01	12	B	3.00	3.45	Brown slightly gravelly sandy CLAY.
BH01	14	D	5.00		Brown very sandy SILT.
BH01	17	D	7.00	7.45	Brown sandy clayey SILT.
BH01	18	D	8.50	8.95	Brown sandy SILT.
BH01	19	UT	11.50	11.95	Soft brown slightly sandy clayey SILT.
BH01	20	B	10.00	10.45	Brown slightly sandy clayey SILT.
BH01	22	B	13.00	13.45	Brown sandy clayey SILT.
BH01	24	B	14.50	14.95	Brown slightly sandy clayey SILT.
BH01	26	D	12.00		Brown sandy slightly clayey SILT.
BH02	2	B	0.40	1.00	Brown sandy CLAY.
BH02	3	UT	1.20	1.65	Stiff brown slightly sandy CLAY.
BH02	4	B	2.00	2.50	Brown sandy CLAY.
BH02	5	D	2.00	2.45	Brown sandy CLAY.
BH02	7	UT	4.00	4.45	Stiff brown slightly sandy CLAY.



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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH02	8	D	4.00	4.45	Brown slightly sandy CLAY.
BH02	9	B	5.00	5.50	Brown slightly sandy CLAY.
BH02	11	B	6.50	7.00	Brown slightly sandy CLAY.
BH02	13	B	7.00	7.50	Brown slightly gravelly very sandy CLAY.
BH02	16	D	9.50	9.95	Brown sandy CLAY.
BH02	17	B	11.00	11.50	Brown slightly sandy CLAY.
BH02	18	D	11.00	11.45	Brown slightly sandy CLAY.
BH02	19	UT	12.00	12.95	Firm brown slightly sandy CLAY.
BH02	20	B	13.00	13.50	Brown slightly gravelly very sandy CLAY.
BH02	22	B	14.00	14.50	Brown slightly gravelly silty SAND.
BH03	3	B	0.50	1.00	Brown silty SAND.
BH03	5	B	1.20	1.65	Brown silty SAND.
BH03	6	B	1.70	2.00	Brown slightly sandy CLAY.
BH03	7	UT	2.00	2.45	Firm brown sandy CLAY.
BH03	8	D	3.00	3.45	Brown sandy CLAY.
BH03	9	B	3.00	3.45	Brown sandy CLAY.
BH03	10	B	4.00	5.00	Brown slightly gravelly very silty SAND.
BH03	11	B	5.00	5.50	Brown slightly gravelly very silty SAND.
BH03	12	B	6.00	6.50	Brown slightly gravelly slightly clayey very silty SAND.



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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH03	14	B	6.50	7.00	Brown silty SAND.
BH03	15	B	8.00	8.50	Brown slightly gravelly very sandy CLAY.
BH03	16	B	9.50	10.00	Brown slightly gravelly very sandy CLAY.
BH03	17	B	11.00	11.50	Brown slightly gravelly very sandy CLAY.
BH03	18	B	12.50	13.00	Brown very silty SAND.
BH03	20	B	14.00	14.50	Brown silty SAND.
BH04	3	B	1.20	1.65	Brown slightly gravelly silty SAND.
BH04	4	D	1.20	1.65	Brown slightly gravelly silty SAND.
BH04	5	B	2.00	2.45	Brown slightly gravelly silty SAND.
BH04	7	B	3.00	3.45	Brown silty SAND.
BH04	9	B	4.50	4.95	Brown very silty SAND.
BH04	11	B	6.00	6.45	Brown silty SAND.
BH04	15	B	9.00	9.45	Brown silty SAND.
BH04	19	B	12.00	12.45	Brown silty SAND.
BH04	22	D	13.50	13.95	Brown slightly gravelly very sandy CLAY.
BH04	23	UT	15.00	15.45	Firm brown slightly gravelly very sandy CLAY.
BH05	2	B	0.40	1.20	Brown slightly gravelly silty SAND.
BH05	3	B	1.20	1.65	Brown slightly gravelly silty SAND.
BH05	4	B	2.00	2.45	Brown slightly silty SAND.



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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH05	5	B	3.00	3.45	Brown silty SAND.
BH05	6	B	4.00	4.45	Brown silty SAND.
BH05	7	B	5.00	5.45	Brown very silty SAND.
BH05	15	B	6.50	6.95	Brown very silty SAND.
BH05	17	B	8.00	8.45	Brown very silty SAND.
BH05	18	B	9.50	9.95	Brown silty SAND.
BH05	19	B	11.00	11.45	Brown silty SAND.
BH05	20	B	12.50	12.95	Brown silty SAND.
BH05	21	D	12.50	12.95	Brown silty SAND.
BH05	23	D	14.00	14.45	Brown slightly sandy CLAY.
BH05	26	D	15.50		Brown slightly sandy CLAY.
BH06	3	B	1.50	1.95	Brown slightly gravelly sandy CLAY.
BH06	4	B	0.40	1.20	Brown TOPSOIL.
BH06	5	D	1.50	1.95	Brown slightly gravelly sandy CLAY.
BH06	6	D	1.50		Brown slightly gravelly sandy CLAY.
BH06	7	UT	3.00	3.45	Stiff brown sandy CLAY.
BH06	8	D	4.50	4.95	Brown slightly gravelly very sandy CLAY.
BH06	9	B	4.50	4.95	Brown slightly gravelly very sandy CLAY.
BH06	10	UT	6.00	6.45	Firm brown slightly gravelly very sandy CLAY.



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Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH06	11	D	3.50		Brown sandy CLAY.
BH06	12	D	7.50	7.95	Brown slightly gravelly sandy CLAY.
BH06	13	B	7.50	7.95	Brown slightly gravelly sandy CLAY.
BH06	16	B	9.00	9.45	Brown slightly silty SAND.
BH06	17	B	10.50	10.95	Brown silty SAND.
BH06	18	B	12.00	12.45	Brown slightly silty SAND.
BH06	19	B	13.50	13.95	Brown slightly silty SAND.
BH07	2	B	0.40	1.20	Brown slightly gravelly sandy CLAY.
BH07	3	B	1.50	1.95	Brown very silty SAND.
BH07	4	B	3.00	3.45	Brown very silty SAND.
BH07	5	B	4.50	4.95	Brown silty SAND.
BH07	6	B	6.00	6.45	Brown silty SAND.
BH07	7	B	7.50	7.95	Brown silty SAND.
BH07	8	B	10.50	10.95	Brown very silty SAND.
BH07	9	B	12.00	12.45	Brown slightly clayey very silty SAND.
BH07	10	B	13.50	13.95	Brown very sandy SILT.
BH07	16	D	8.50		Brown sandy CLAY.
BH07	18	UT	9.00	9.45	Stiff brown slightly gravelly sandy CLAY.
BH08	2	B	0.40	1.50	Brown silty SAND.



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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH08	3	SPTLS	1.50	1.95	Brown SAND.
BH08	4	B	2.00	3.00	Brown very sandy SILT.
BH08	5	SPTLS	3.00	3.45	Brown very sandy SILT.
BH08	6	B	3.50	4.50	Brown very sandy SILT.
BH08	7	B	4.50	6.00	Brown very sandy clayey SILT.
BH08	8	SPTLS	4.50	4.95	Brown very sandy clayey SILT.
BH08	9	B	6.00	7.50	Brown very silty SAND.
BH08	11	SPTLS	7.50	7.95	Brown silty SAND.
BH08	12	B	8.00	8.45	Brown silty SAND.
BH08	13	SPTLS	9.00	9.45	Brown silty SAND.
BH08	14	B	10.50	10.95	Brown very sandy SILT.
BH08	16	B	12.00	12.45	Brown silty SAND.
BH08	18	B	13.50	13.95	Brown slightly silty SAND.
BH09	1	B	0.20	0.70	Brown slightly gravelly very sandy CLAY.
BH09	2	B	1.20	1.65	Brown slightly gravelly sandy CLAY.
BH09	3	B	3.00	3.45	Brown sandy CLAY.
BH09	4	B	4.00	4.45	Brown very sandy clayey SILT.
BH09	5	B	5.00	5.45	Brown sandy SILT.
BH09	6	B	6.50	6.95	Brown sandy SILT.



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Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH09	7	B	8.00	8.45	Brown sandy SILT.
BH09	8	B	9.50	9.95	Brown slightly gravelly sandy CLAY.
BH09	9	B	12.50	12.95	Brown sandy CLAY.
BH09	11	SPTLS	1.20	1.65	Brown slightly gravelly sandy CLAY.
BH09	12	UT	2.00	2.45	Stiff brown slightly gravelly sandy CLAY.
BH09	13	D	3.00	3.45	Brown slightly gravelly sandy CLAY.
BH09	14	SPTLS	5.00	5.45	Brown sandy SILT.
BH09	15	SPTLS	6.50	6.95	Brown sandy SILT.
BH09	16	SPTLS	8.00	8.45	Brown sandy SILT.
BH09	17	SPTLS	9.50	9.95	Brown slightly gravelly sandy CLAY.
BH09	18	D	11.45		Brown sandy CLAY.
BH09	20	UT	11.00	11.45	Very stiff brown sandy CLAY.
BH09	21	SPTLS	14.00	14.45	Brown sandy CLAY.
BH10	2	B	0.40	1.20	Brown slightly gravelly very sandy CLAY.
BH10	3	B	1.50	1.95	Brown slightly gravelly very sandy CLAY.
BH10	4	SPTLS	1.50	1.95	Brown slightly gravelly very sandy CLAY.
BH10	5	UT	3.00	3.45	Firm brown slightly gravelly very sandy CLAY.
BH10	6	B	4.50	4.95	Brown slightly gravelly very sandy CLAY.
BH10	7	SPTLS	4.50	4.95	Brown slightly gravelly very sandy CLAY.



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Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH10	9	B	6.00	6.45	Brown slightly gravelly silty SAND.
BH10	11	B	7.50	7.95	Brown slightly gravelly silty SAND.
BH10	13	B	9.00	9.45	Brown silty SAND.
BH10	15	B	10.50	10.95	Brown slightly gravelly silty SAND.
BH10	17	B	12.00	12.45	Brown silty SAND.
BH10	19	B	13.50	13.95	Brown silty SAND.
BH11	2	B	0.40	1.20	Brown very gravelly silty SAND with cobbles.
BH11	3	D	1.20		Brown slightly sandy CLAY.
BH11	5	B	1.50	1.95	Brown slightly gravelly slightly sandy CLAY.
BH11	7	B	3.00	3.45	Brown slightly gravelly silty SAND.
BH11	10	B	4.50	4.95	Brown very silty SAND.
BH11	11	B	6.00	6.45	Brown very sandy SILT.
BH11	15	UT	7.50	7.95	Stiff brown sandy CLAY.
BH11	16	D	8.00		Brown sandy CLAY.
BH11	17	D	8.60		Brown sandy CLAY.
BH11	18	SPTLS	9.00	9.45	Brown sandy CLAY.
BH11	19	UT	10.50	10.95	Brown sandy CLAY.
BH11	20	D	11.00		Brown sandy CLAY.
BH11	22	UT	13.50	13.95	Firm brown sandy CLAY.



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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH11	23	D	14.00		Brown sandy CLAY.
TP09	3	B	1.50		Brown very sandy CLAY.
TP10	3	B	2.00		Brown slightly gravelly very sandy CLAY.
TP10	4	B	3.00		Brown slightly gravelly very sandy CLAY.
TP11	3	B	1.50		Brown slightly gravelly very sandy CLAY.
TP16	2	B	0.60		Brown slightly gravelly very sandy CLAY.
TP16	3	B	1.10		Brown slightly gravelly very sandy CLAY.
TP16	4	B	1.80		Brown gravelly silty SAND.
TP16	5	B	3.20		Brown gravelly slightly clayey silty SAND.
TP16	6	B	4.10		Brown gravelly slightly clayey silty SAND.
TP22	2	B	0.80		Brown slightly gravelly silty SAND.
TP22	3	B	1.60		Brown slightly gravelly slightly silty SAND.
TP22	4	B	2.80		Brown slightly gravelly silty SAND.
TP22	5	B	3.60		Brown slightly gravelly silty SAND.



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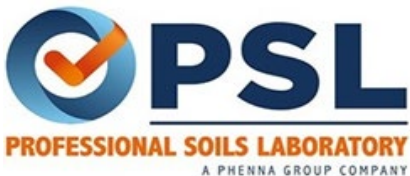
SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

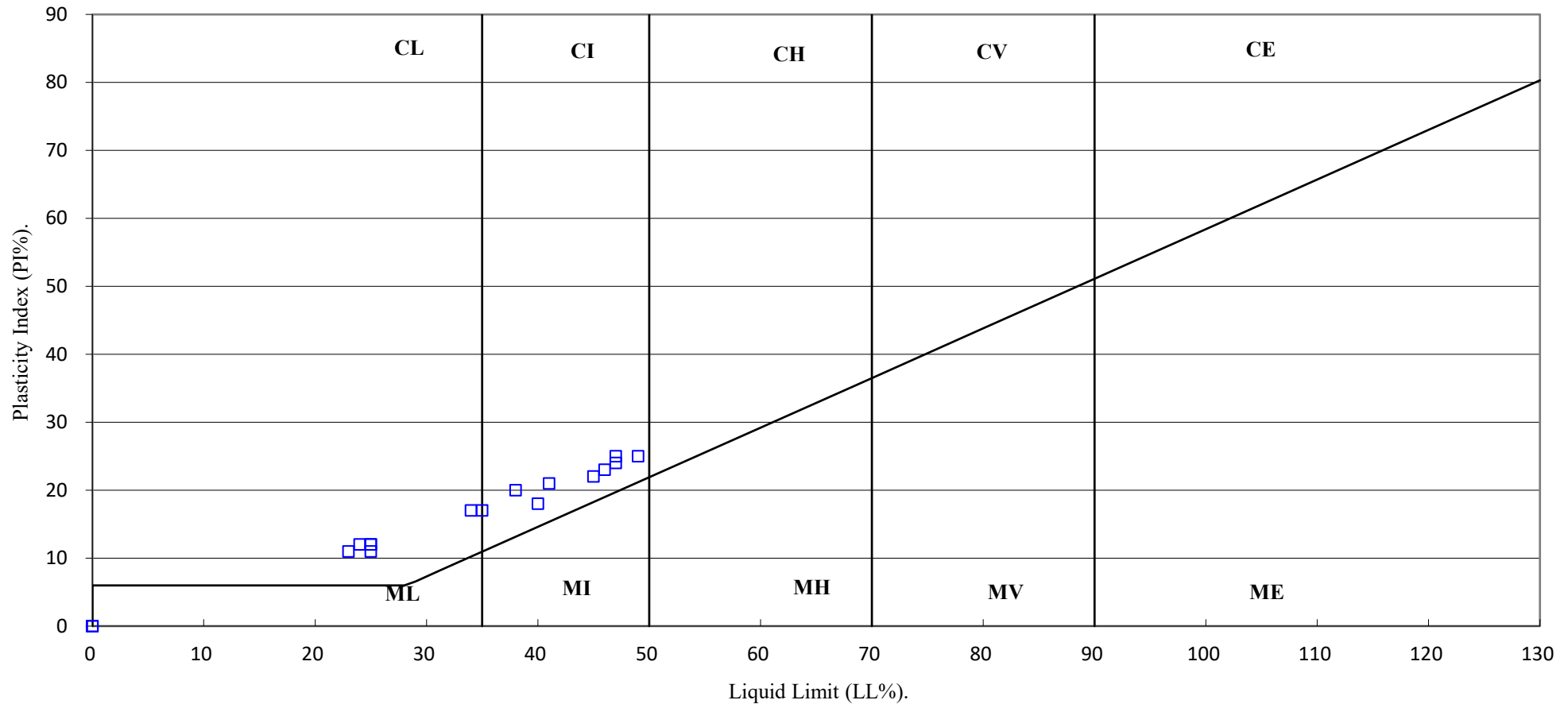
Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m ³ Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
BH01	7	D	1.20	1.65	27			41	20	21	97	Intermediate Plasticity CI
BH01	11	D	3.00	3.45	13			38	18	20	98	Intermediate Plasticity CI
BH01	18	D	8.50	8.95	8.6				NP			
BH01	26	D	12.00		4.6				NP			
BH02	2	B	0.40	1.00	29			46	23	23	100	Intermediate Plasticity CI
BH02	5	D	2.00	2.45	23			35	18	17	100	Intermediate Plasticity CI
BH02	8	D	4.00	4.45	25			47	23	24	100	Intermediate Plasticity CI
BH02	16	D	9.50	9.95	23			40	22	18	100	Intermediate Plasticity CI
BH02	18	D	11.00	11.45	27			45	23	22	100	Intermediate Plasticity CI
BH02	20	B	13.00	13.50	18			25	13	12	89	Low Plasticity CL
BH03	6	B	1.70	2.00	25			47	22	25	100	Intermediate Plasticity CI
BH03	8	D	3.00	3.45	15			34	17	17	100	Low Plasticity CL
BH03	15	B	8.00	8.50	11			25	13	12	91	Low Plasticity CL
BH03	16	B	9.50	10.00	12			24	12	12	92	Low Plasticity CL
BH03	17	B	11.00	11.50	20			23	12	11	94	Low Plasticity CL
BH04	4	D	1.20	1.65	25				NP			
BH04	22	D	13.50	13.95	12			25	14	11	96	Low Plasticity CL
BH05	17	B	8.00	8.45	25				NP			
BH05	23	D	14.00	14.45	31			49	24	25	100	Intermediate Plasticity CI

SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.

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PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



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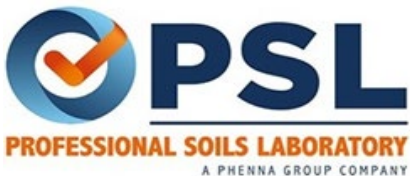
SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

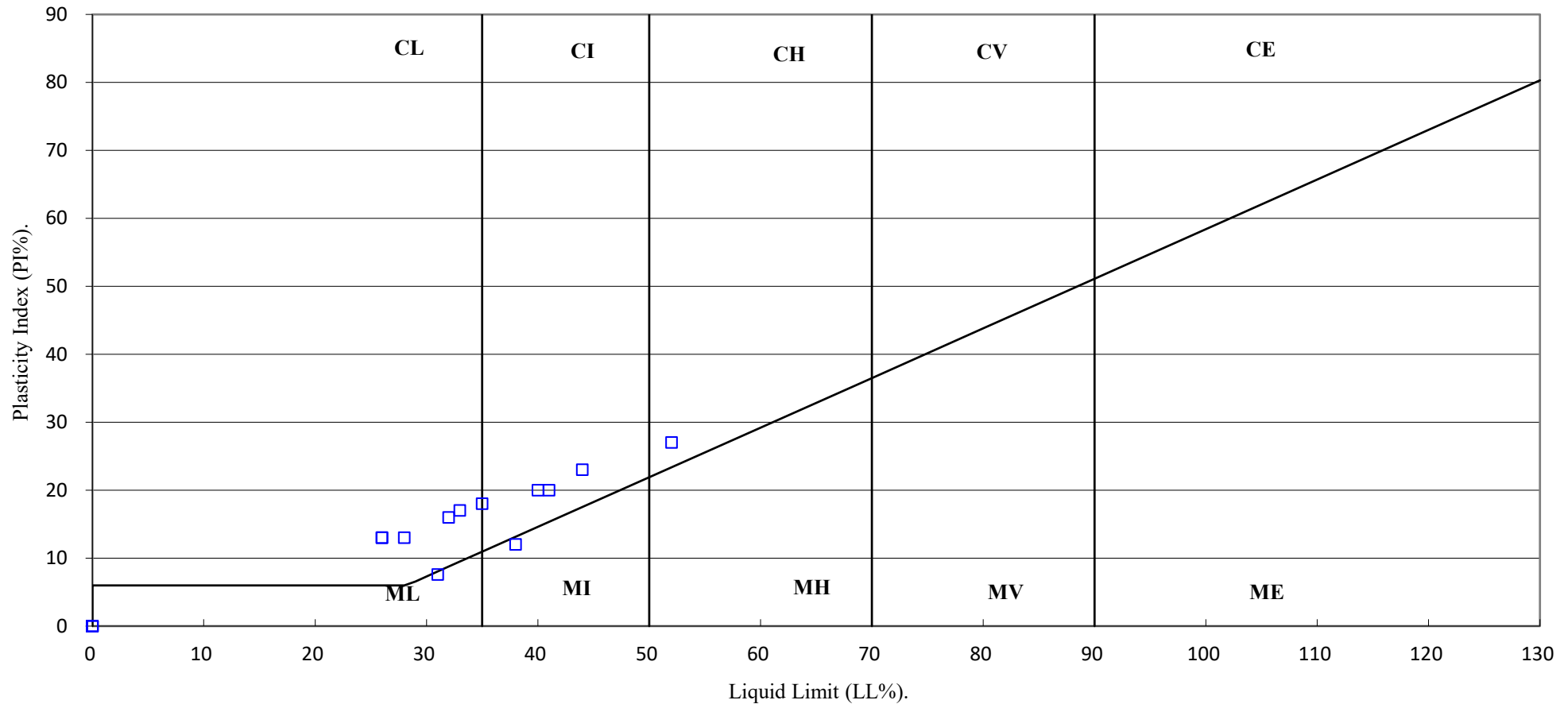
Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m ³ Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
BH05	26	D	15.50		26			52	25	27	100	High Plasticity CH
BH06	6	D	1.50		24			40	20	20	97	Intermediate Plasticity CI
BH06	8	D	4.50	4.95	13			26	13	13	91	Low Plasticity CL
BH06	11	D	3.50		25			33	16	17	100	Low Plasticity CL
BH06	12	D	7.50	7.95	13			32	16	16	89	Low Plasticity CL
BH07	2	B	0.40	1.20	33			41	21	20	97	Intermediate Plasticity CI
BH07	16	D	8.50		16			35	17	18	100	Intermediate Plasticity CI
BH08	3	SPTLS	1.50	1.95	5.5				NP			
BH08	5	SPTLS	3.00	3.45	18				NP			
BH08	8	SPTLS	4.50	4.95	24			38	26	12	100	Intermediate Plasticity MI
BH08	9	B	6.00	7.50	18				NP			
BH08	11	SPTLS	7.50	7.95	19				NP			
BH09	1	B	0.20	0.70	18			26	13	13	96	Low Plasticity CL
BH09	4	B	4.00	4.45	22			31	23	8	91	Low Plasticity ML
BH09	11	SPTLS	1.20	1.65	17			44	21	23	96	Intermediate Plasticity CI
BH09	13	D	3.00	3.45	9.2			28	15	13	98	Low Plasticity CL
BH09	14	SPTLS	5.00	5.45	23				NP			
BH09	15	SPTLS	6.50	6.95	24				NP			
BH09	16	SPTLS	8.00	8.45	23				NP			

SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.

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PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



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PSL24/5600

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SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

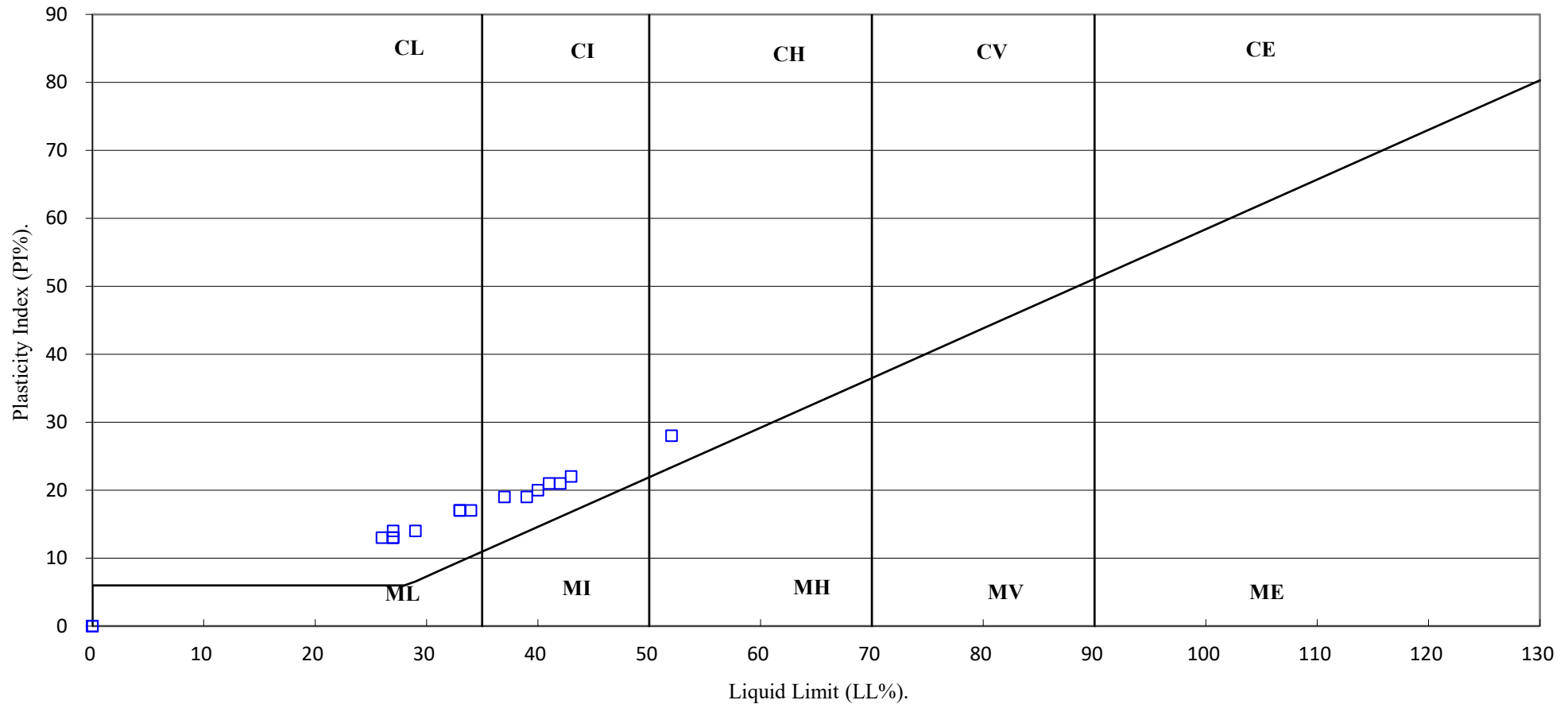
Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m ³ Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
BH09	17	SPTLS	9.50	9.95	26			40	20	20	97	Intermediate Plasticity CI
BH09	18	D	11.45		14			34	17	17	100	Low Plasticity CL
BH09	21	SPTLS	14.00	14.45	19			37	18	19	100	Intermediate Plasticity CI
BH10	2	B	0.40	1.20	11			33	16	17	99	Low Plasticity CL
BH10	4	SPTLS	1.50	1.95	16			27	14	13	94	Low Plasticity CL
BH10	7	SPTLS	4.50	4.95	18			29	15	14	97	Low Plasticity CL
BH11	3	D	1.20		22			52	24	28	100	High Plasticity CH
BH11	16	D	8.00		25			39	20	19	100	Intermediate Plasticity CI
BH11	18	SPTLS	9.00	9.45	23			43	21	22	100	Intermediate Plasticity CI
BH11	20	D	11.00		23			42	21	21	100	Intermediate Plasticity CI
BH11	23	D	14.00		24			41	20	21	100	Intermediate Plasticity CI
TP09	3	B	1.50		13			33	16	17	100	Low Plasticity CL
TP10	3	B	2.00		15			27	14	13	97	Low Plasticity CL
TP11	3	B	1.50		15			26	13	13	98	Low Plasticity CL
TP16	3	B	1.10		14			27	13	14	96	Low Plasticity CL

SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.

 4043	 PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY	Cowm Top	Contract No:
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PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



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PARTICLE SIZE DISTRIBUTION TEST

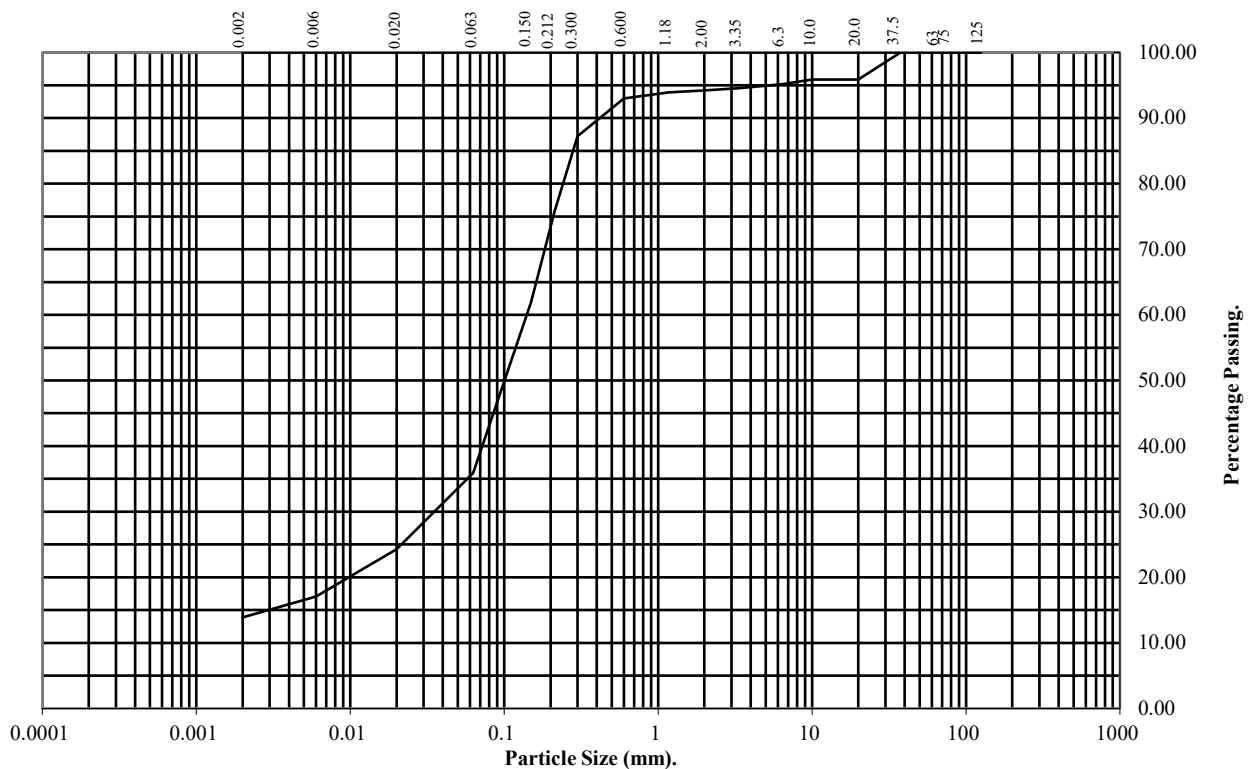
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH01 Top Depth (m): 0.40

Sample Number: 5 Base Depth(m): 1.20

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	96
10	96
6.3	95
3.35	95
2	94
1.18	94
0.6	93
0.3	87
0.212	76
0.15	62
0.063	36

Particle Diameter	Percentage Passing
0.02	24
0.006	17
0.002	14

Soil Fraction	Total Percentage
Cobbles	0
Gravel	6
Sand	58
Silt	22
Clay	14

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

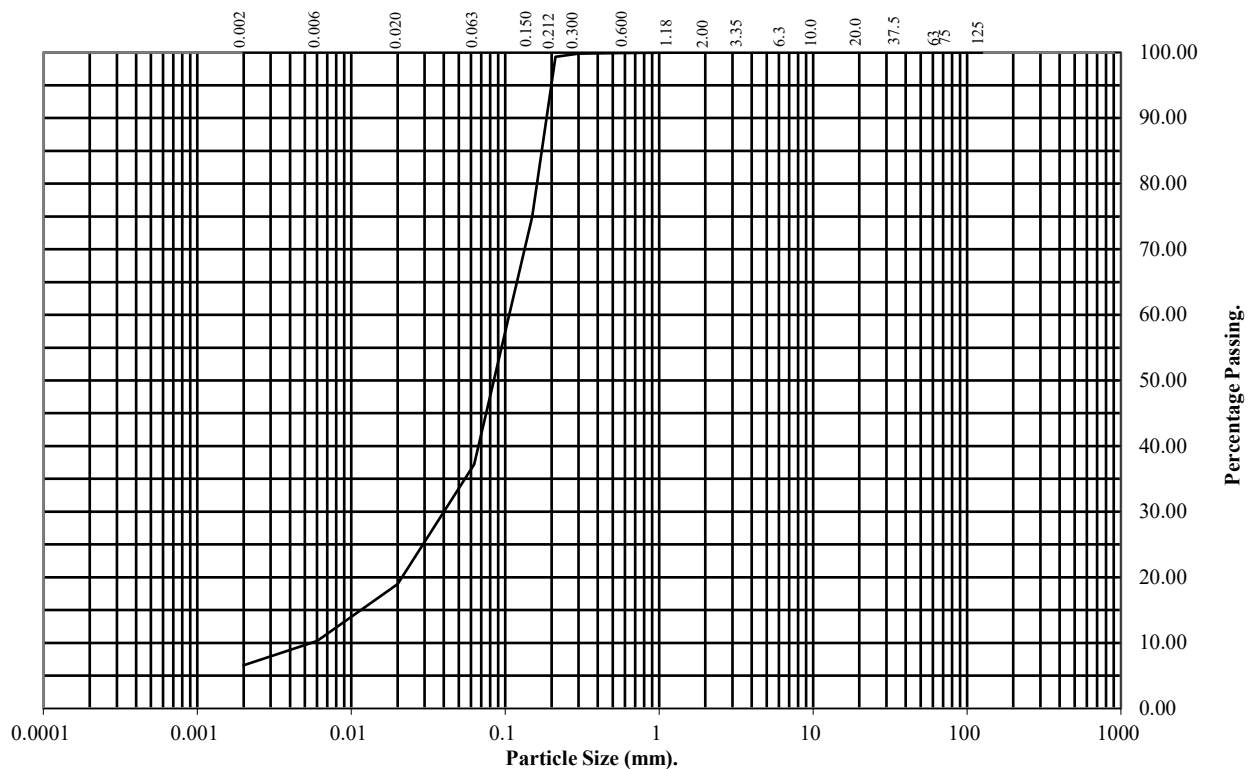
Hole Number: BH01

Top Depth (m): 5.00

Sample Number: 14

Base Depth(m):

Sample Type: D



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	99
0.15	75
0.063	37

Particle Diameter	Percentage Passing
0.02	19
0.006	10
0.002	7

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	63
Silt	30
Clay	7

Remarks:

See Summary of Soil Descriptions



Cowm Top

Contract No:
PSL24/5600
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PARTICLE SIZE DISTRIBUTION TEST

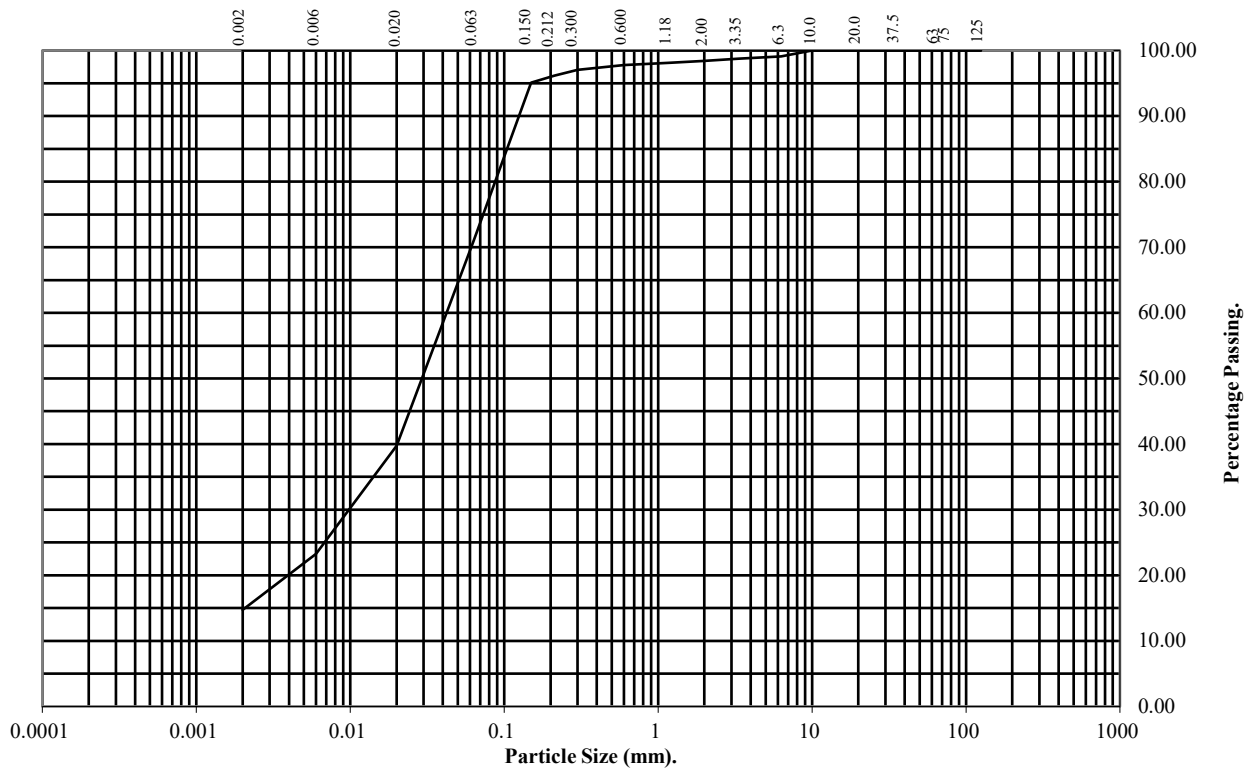
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH01 Top Depth (m): 7.00

Sample Number: 17 Base Depth(m): 7.45

Sample Type: D



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	99
3.35	99
2	98
1.18	98
0.6	98
0.3	97
0.212	96
0.15	95
0.063	71

Particle Diameter	Percentage Passing
0.02	40
0.006	23
0.002	15

Soil Fraction	Total Percentage
Cobbles	0
Gravel	2
Sand	27
Silt	56
Clay	15

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

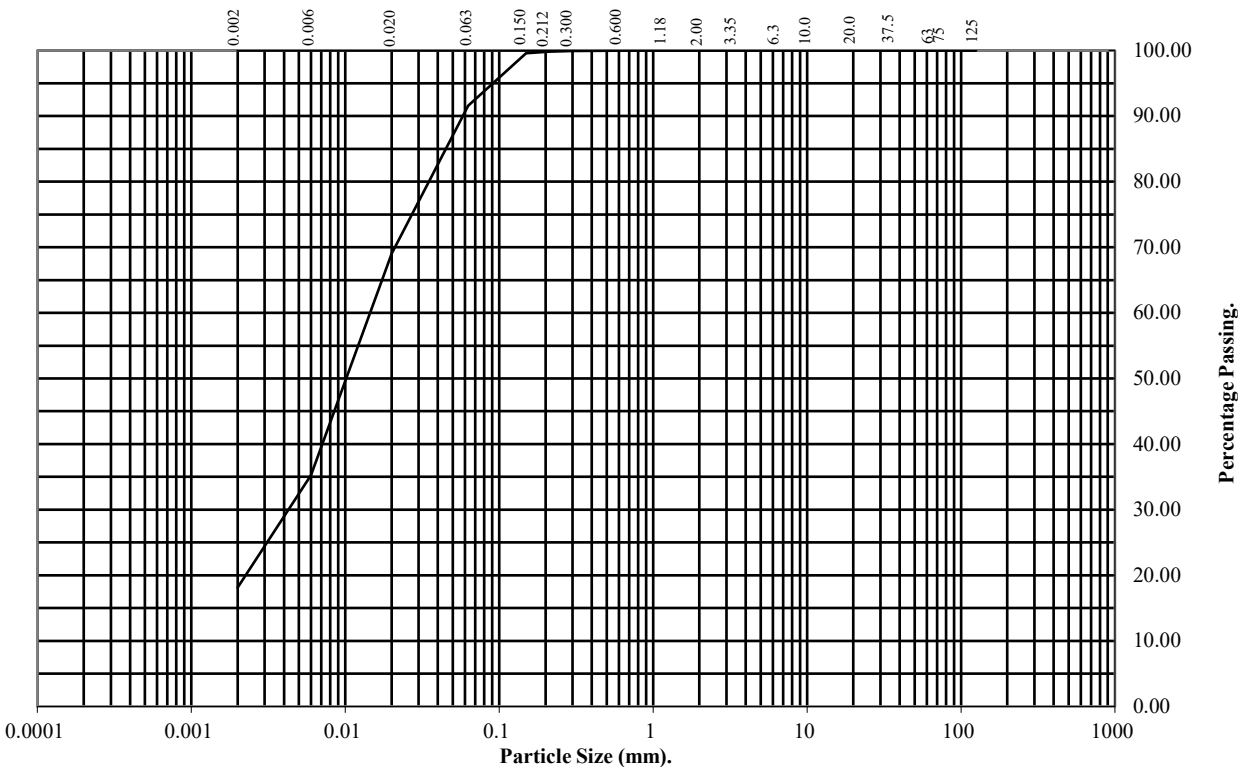
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH01 Top Depth (m): 10.00

Sample Number: 20 Base Depth(m): 10.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	100
0.15	100
0.063	92

Particle Diameter	Percentage Passing
0.02	69
0.006	35
0.002	18

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	8
Silt	74
Clay	18

Remarks:
See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

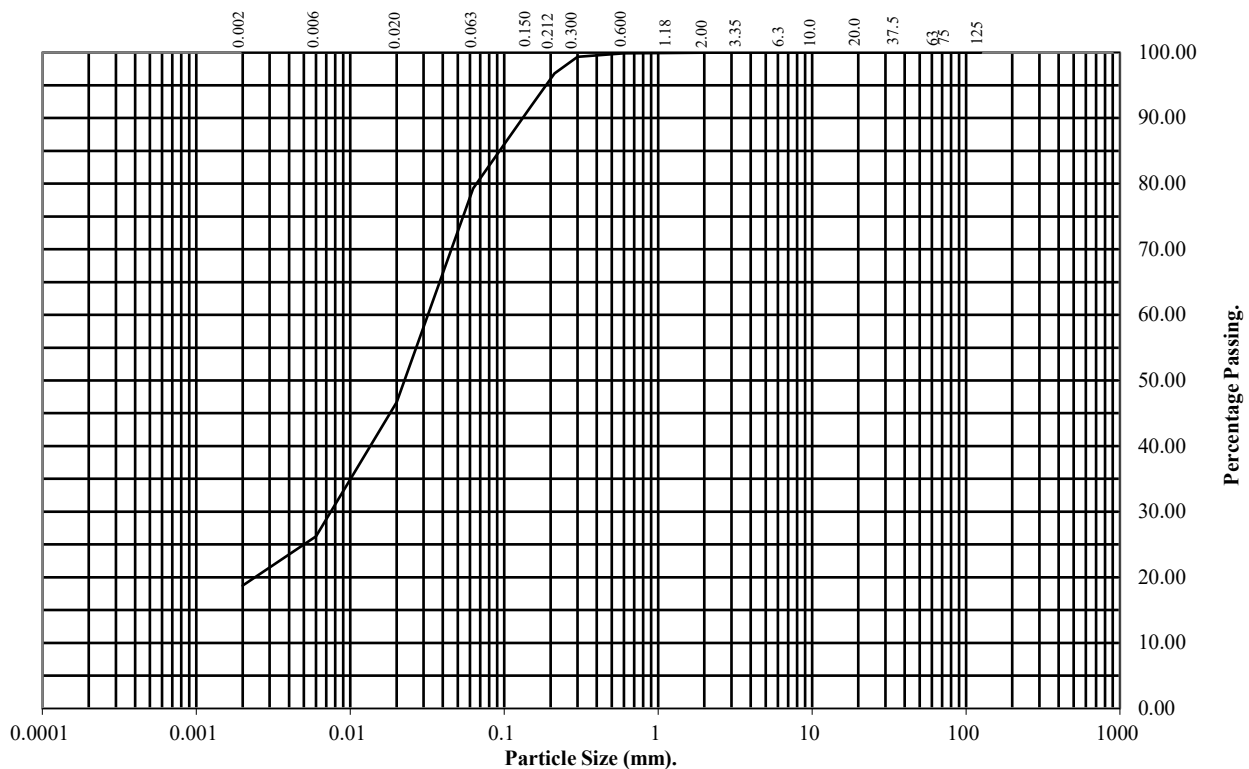
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH01 Top Depth (m): 13.00

Sample Number: 22 Base Depth(m): 13.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	99
0.212	97
0.15	92
0.063	79

Particle Diameter	Percentage Passing
0.02	47
0.006	26
0.002	19

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	21
Silt	60
Clay	19

Remarks:
See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

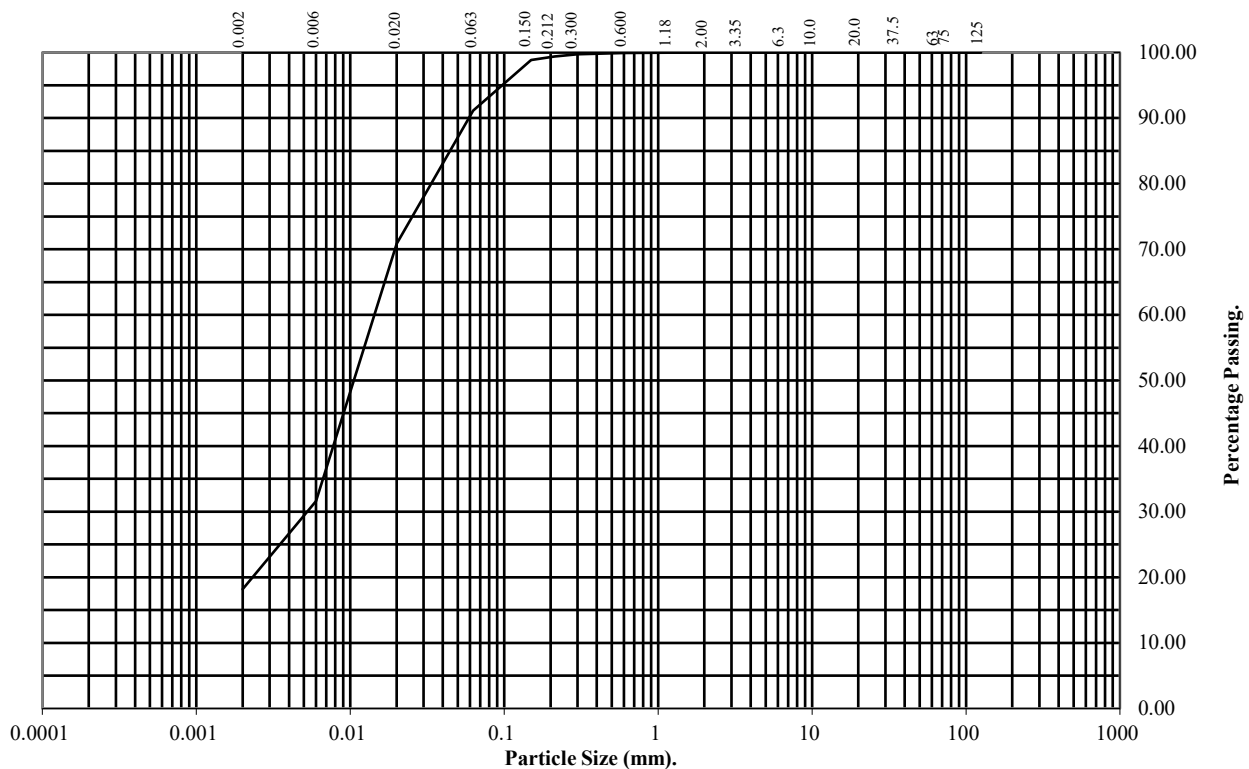
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH01 Top Depth (m): 14.50

Sample Number: 24 Base Depth(m): 14.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	99
0.15	99
0.063	91

Particle Diameter	Percentage Passing
0.02	71
0.006	32
0.002	18

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	9
Silt	73
Clay	18

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

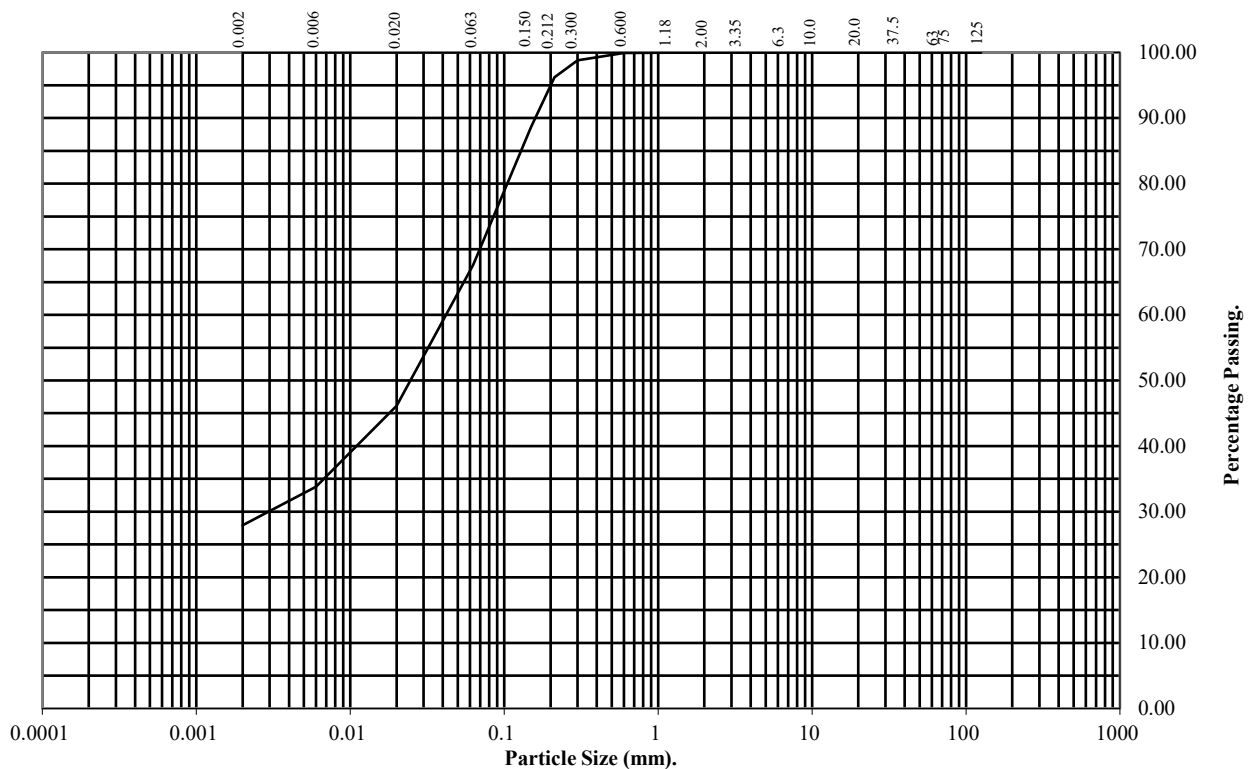
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH02 Top Depth (m): 2.00

Sample Number: 4 Base Depth(m): 2.50

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	99
0.212	96
0.15	89
0.063	68

Particle Diameter	Percentage Passing
0.02	46
0.006	34
0.002	28

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	32
Silt	40
Clay	28

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

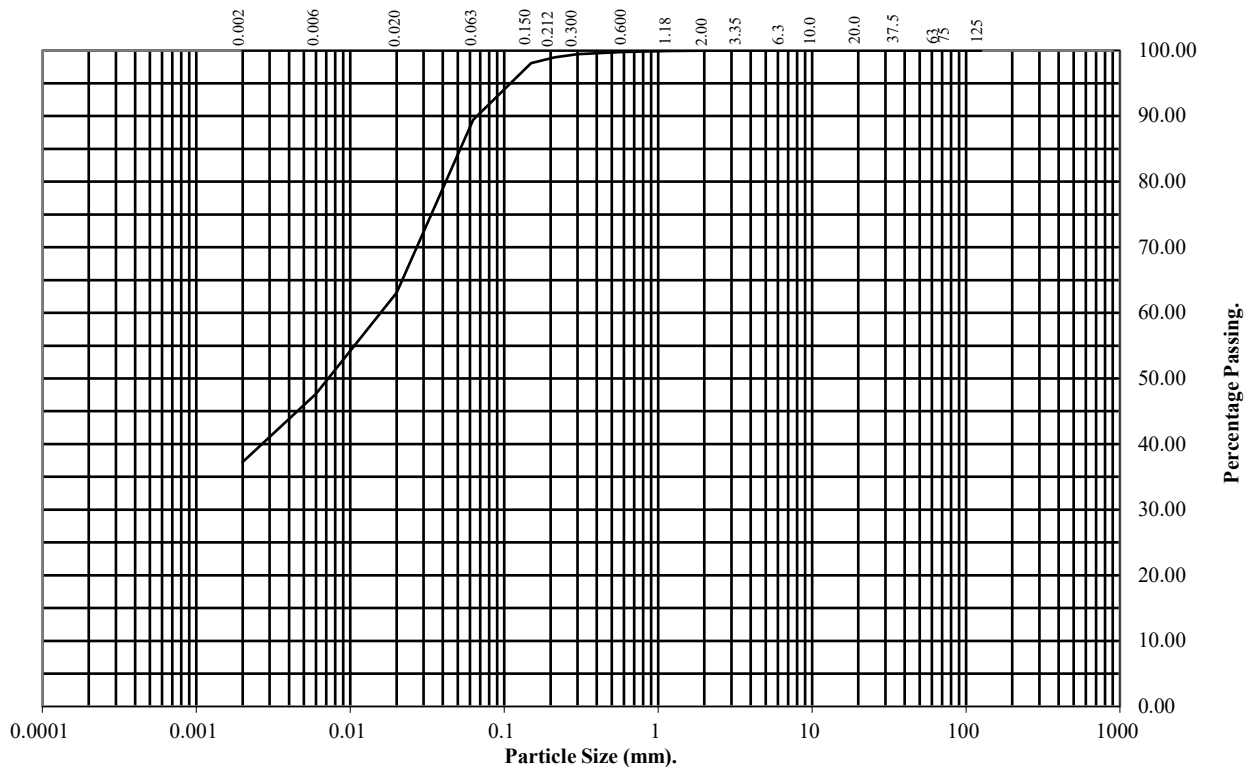
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH02 Top Depth (m): 6.50

Sample Number: 11 Base Depth(m): 7.00

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	99
0.212	99
0.15	98
0.063	89

Particle Diameter	Percentage Passing
0.02	63
0.006	48
0.002	37

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	11
Silt	52
Clay	37

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

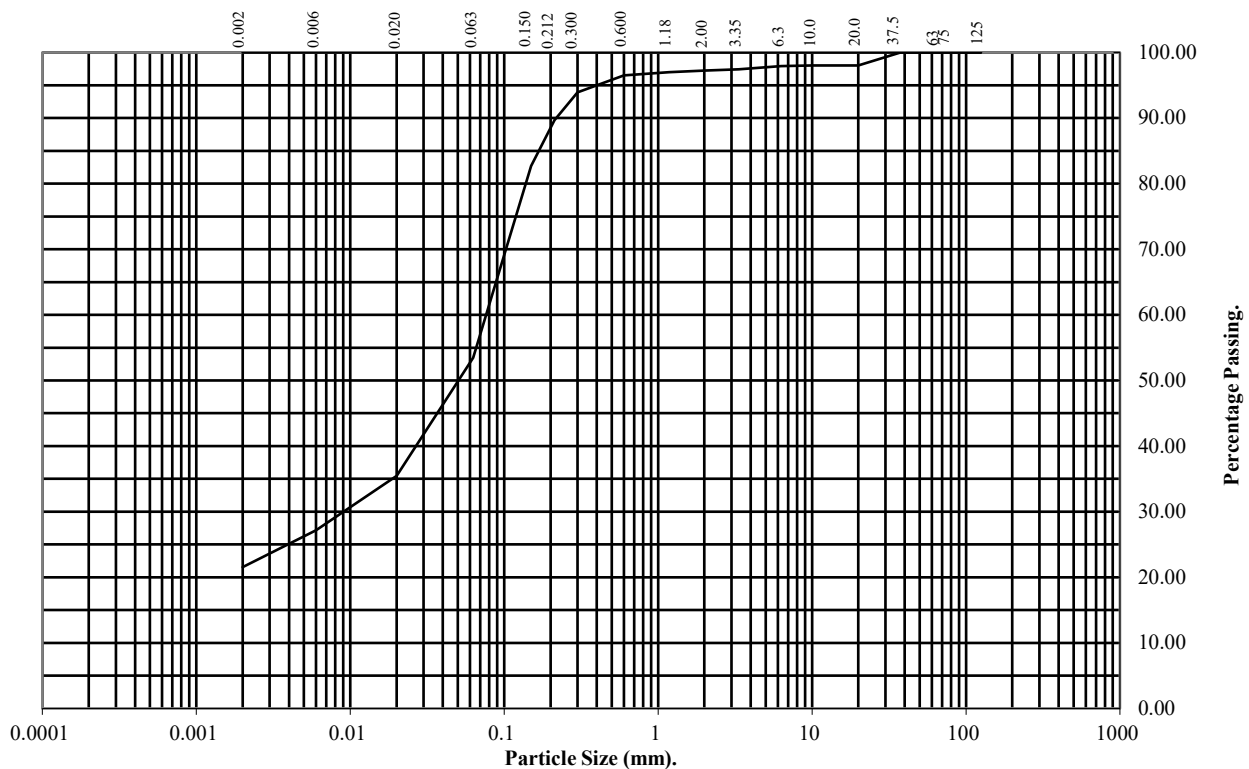
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH02 Top Depth (m): 7.00

Sample Number: 13 Base Depth(m): 7.50

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	98
10	98
6.3	98
3.35	97
2	97
1.18	97
0.6	97
0.3	94
0.212	90
0.15	83
0.063	53

Particle Diameter	Percentage Passing
0.02	35
0.006	27
0.002	22

Soil Fraction	Total Percentage
Cobbles	0
Gravel	3
Sand	44
Silt	31
Clay	22

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

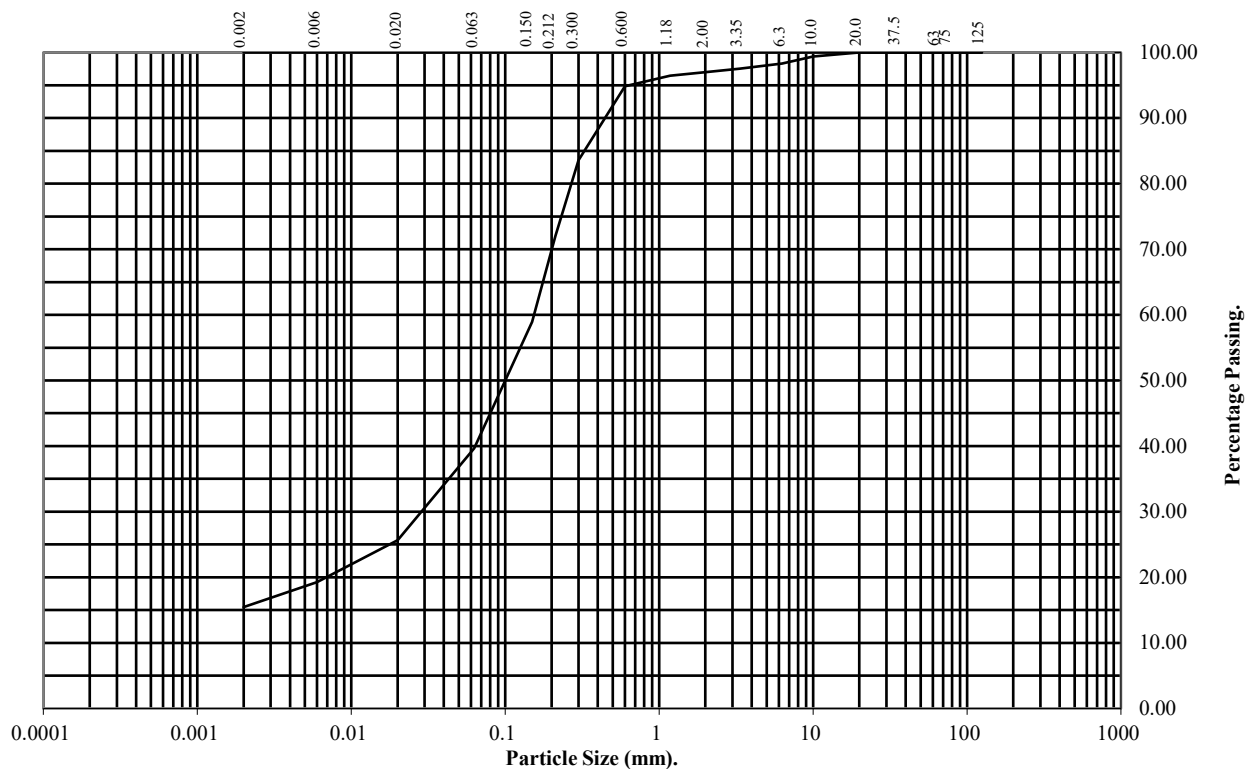
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH02 Top Depth (m): 13.00

Sample Number: 20 Base Depth(m): 13.50

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	99
6.3	98
3.35	98
2	97
1.18	96
0.6	95
0.3	84
0.212	72
0.15	59
0.063	40

Particle Diameter	Percentage Passing
0.02	26
0.006	19
0.002	15

Soil Fraction	Total Percentage
Cobbles	0
Gravel	3
Sand	57
Silt	25
Clay	15

Remarks:
See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

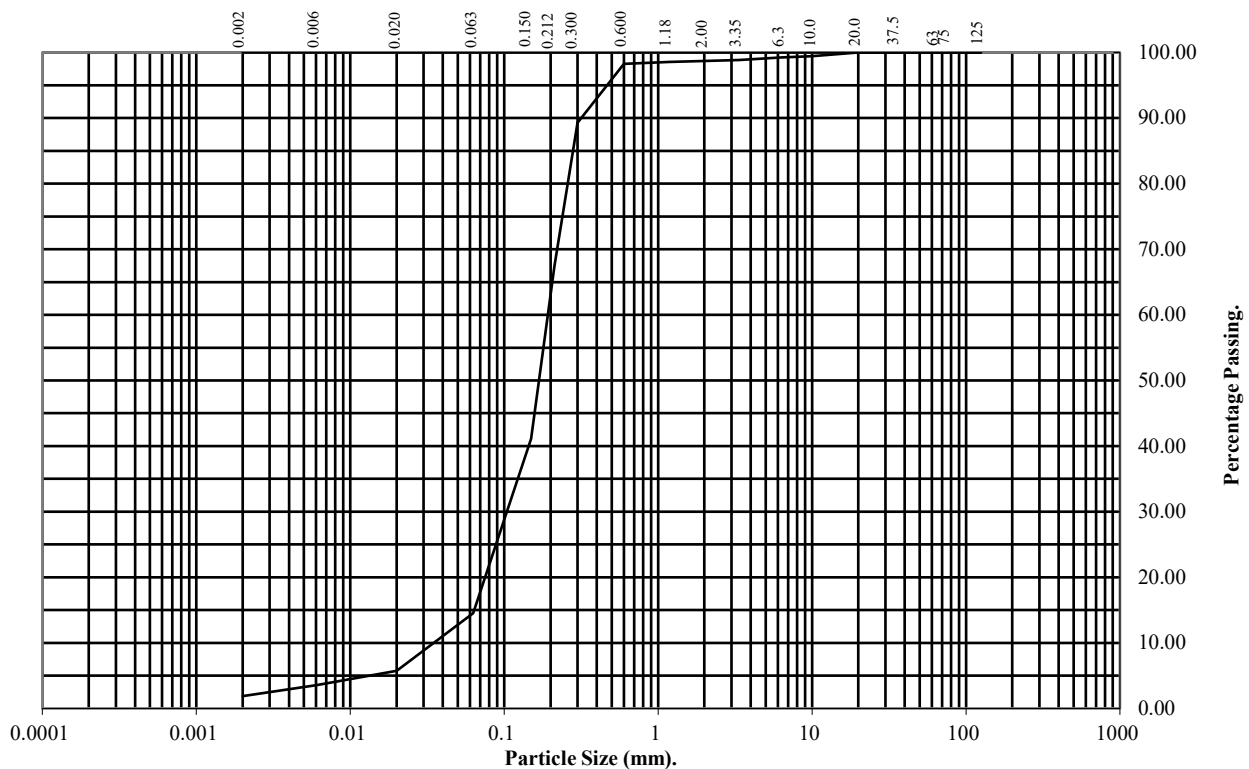
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH02 Top Depth (m): 14.00

Sample Number: 22 Base Depth(m): 14.50

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	99
6.3	99
3.35	99
2	99
1.18	99
0.6	98
0.3	89
0.212	67
0.15	41
0.063	15

Particle Diameter	Percentage Passing
0.02	6
0.006	4
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	1
Sand	84
Silt	13
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

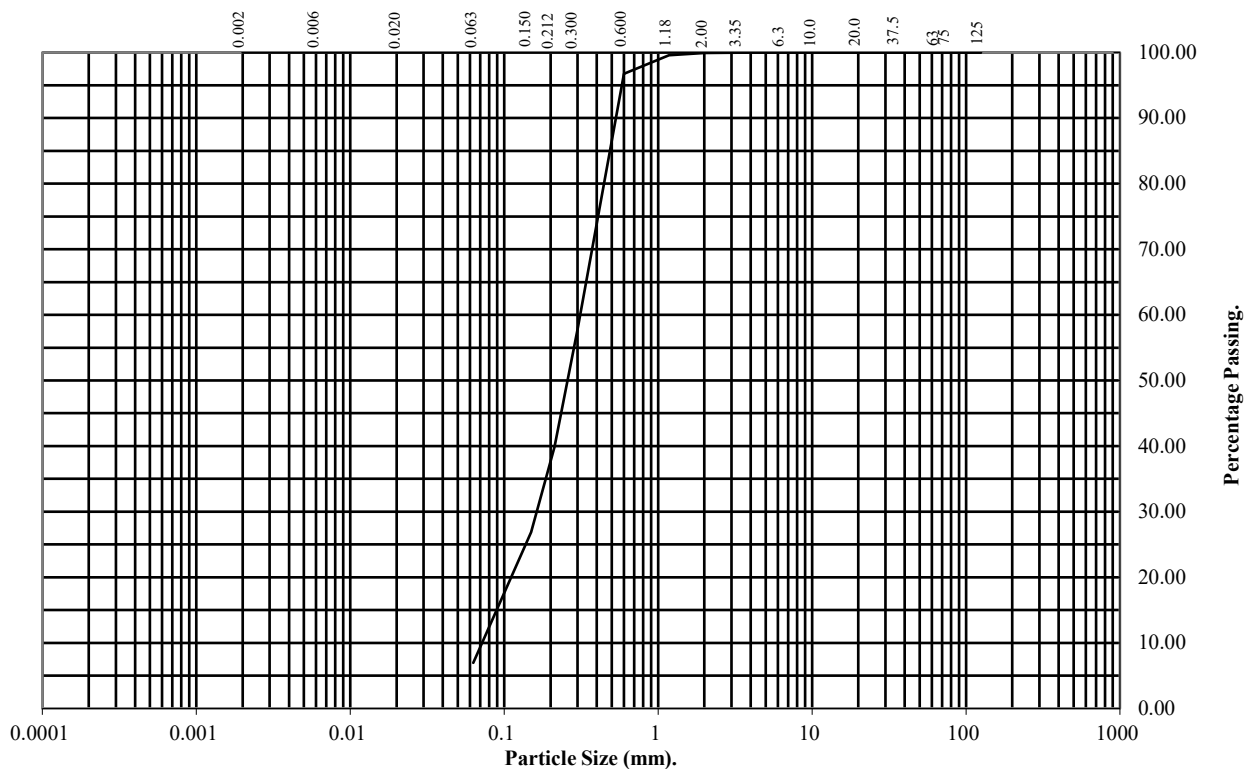
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH03 Top Depth (m): 0.50

Sample Number: 3 Base Depth(m): 1.00

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	97
0.3	58
0.212	40
0.15	27
0.063	7

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	93
Silt/Clay	7

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

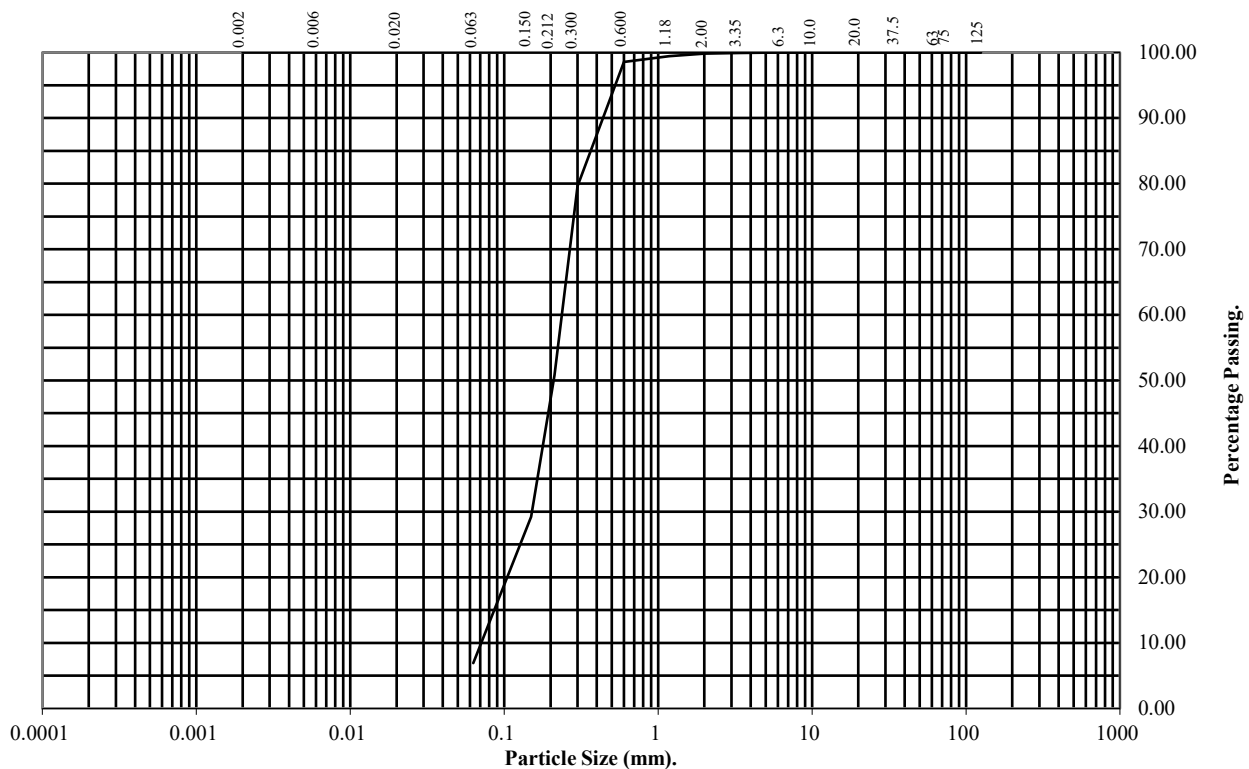
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH03 Top Depth (m): 1.20

Sample Number: 5 Base Depth(m): 1.65

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	99
0.6	99
0.3	80
0.212	51
0.15	29
0.063	7

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	93
Silt/Clay	7

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

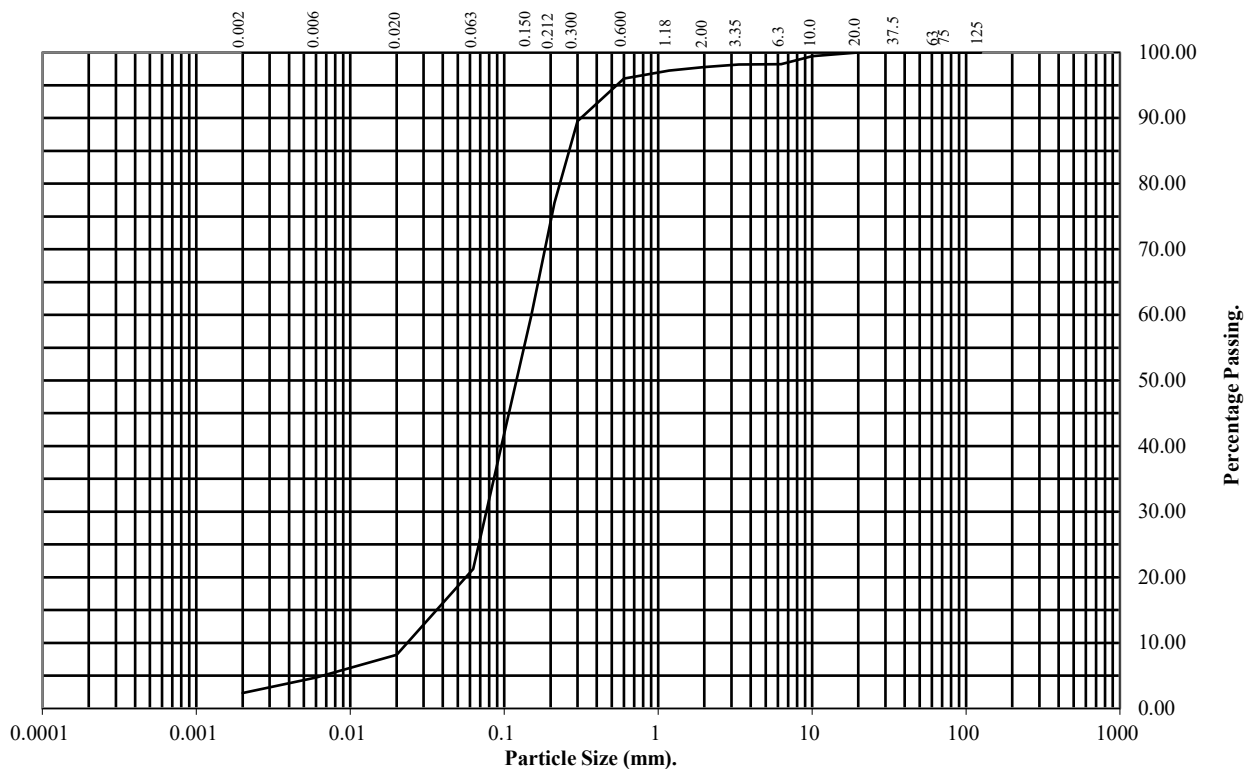
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH03 Top Depth (m): 4.00

Sample Number: 10 Base Depth(m): 5.00

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	99
6.3	98
3.35	98
2	98
1.18	97
0.6	96
0.3	90
0.212	77
0.15	60
0.063	21

Particle Diameter	Percentage Passing
0.02	8
0.006	5
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	2
Sand	77
Silt	19
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

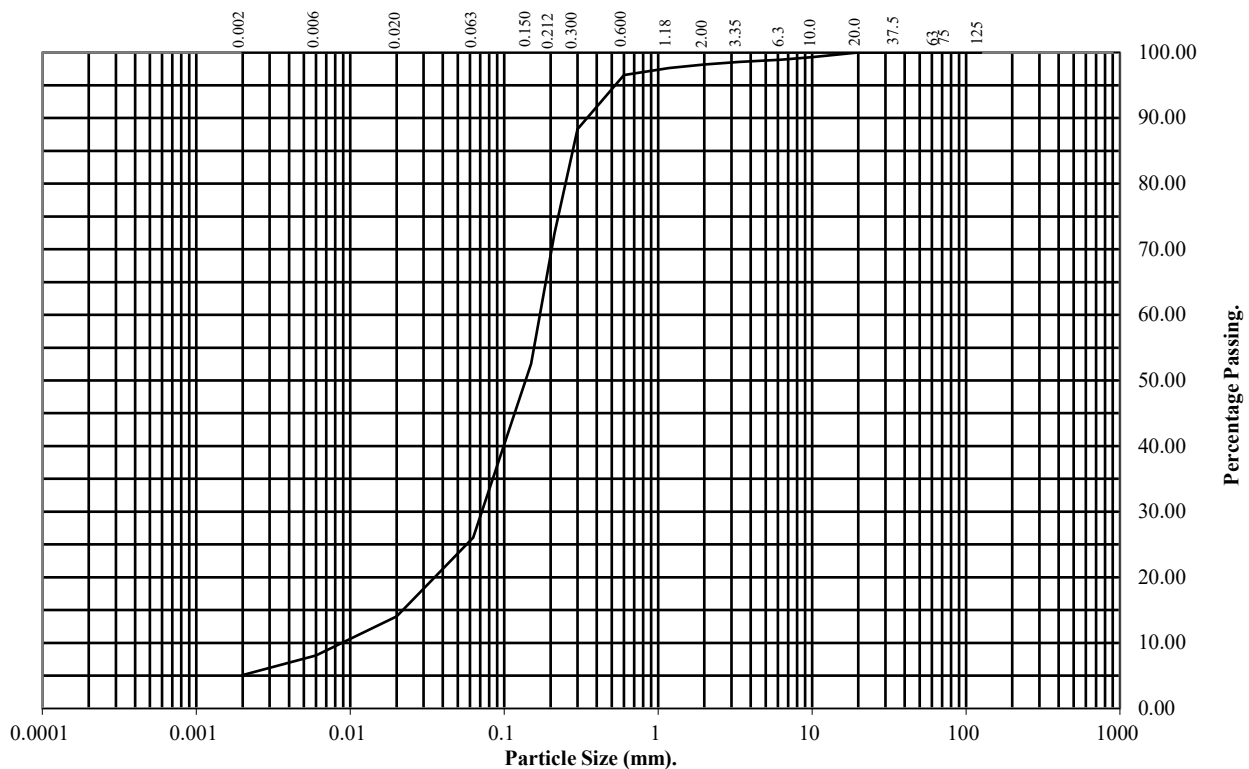
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH03 Top Depth (m): 6.00

Sample Number: 12 Base Depth(m): 6.50

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	99
6.3	99
3.35	99
2	98
1.18	98
0.6	97
0.3	88
0.212	72
0.15	53
0.063	26

Particle Diameter	Percentage Passing
0.02	14
0.006	8
0.002	5

Soil Fraction	Total Percentage
Cobbles	0
Gravel	2
Sand	72
Silt	21
Clay	5

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

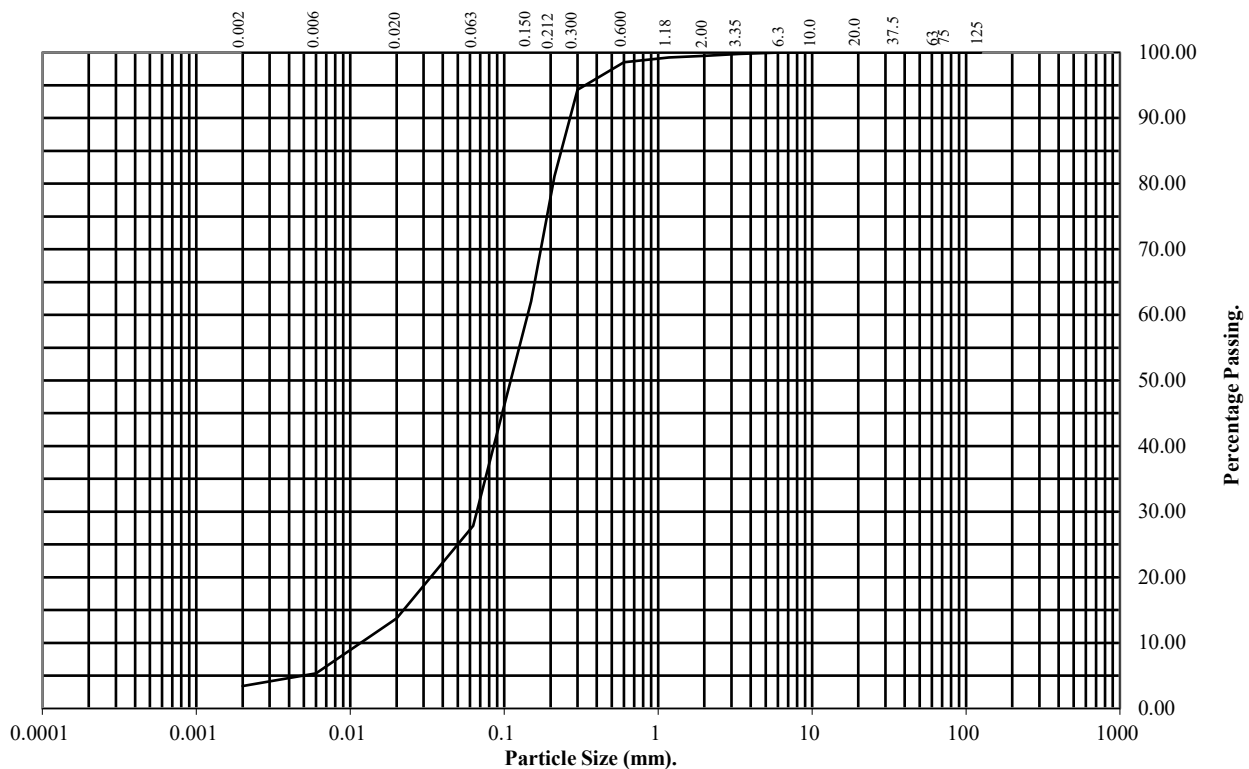
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH03 Top Depth (m): 12.50

Sample Number: 18 Base Depth(m): 13.00

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	99
1.18	99
0.6	99
0.3	94
0.212	81
0.15	62
0.063	28

Particle Diameter	Percentage Passing
0.02	14
0.006	5
0.002	3

Soil Fraction	Total Percentage
Cobbles	0
Gravel	1
Sand	71
Silt	25
Clay	3

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

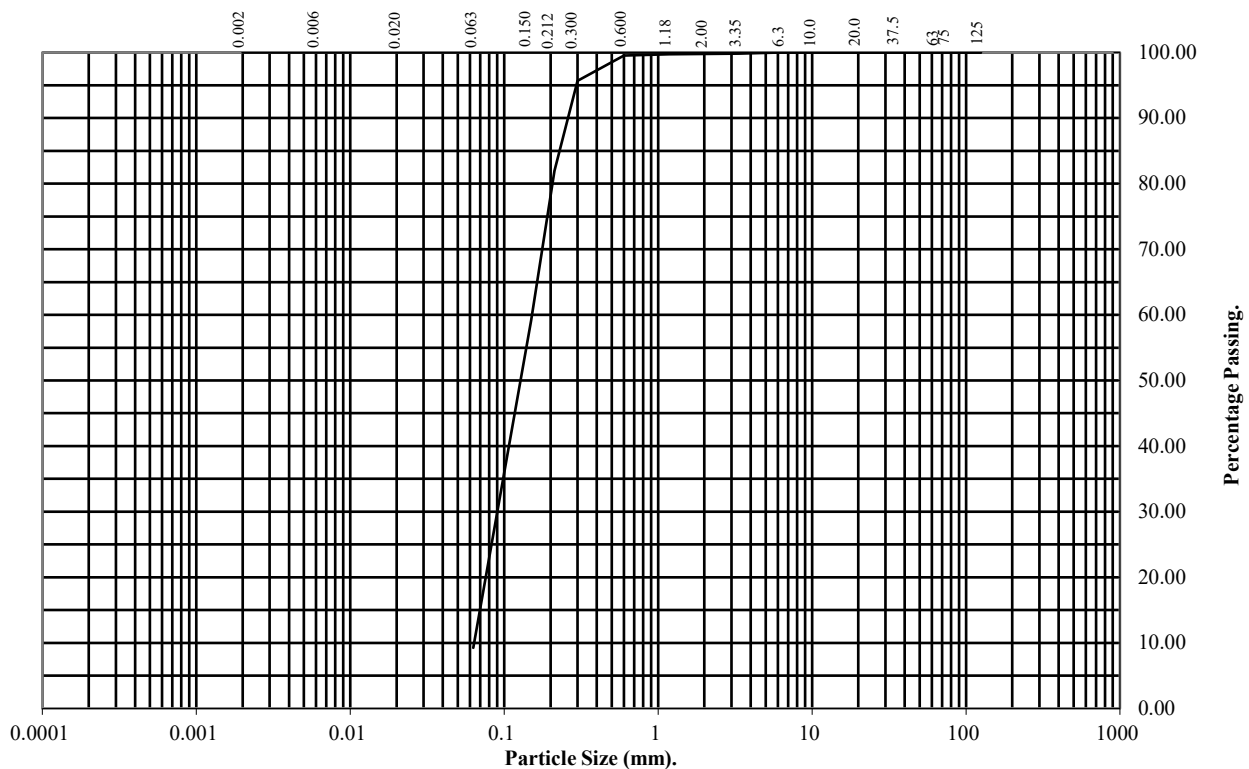
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH03 Top Depth (m): 14.00

Sample Number: 20 Base Depth(m): 14.50

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	96
0.212	82
0.15	59
0.063	9

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	91
Silt/Clay	9

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

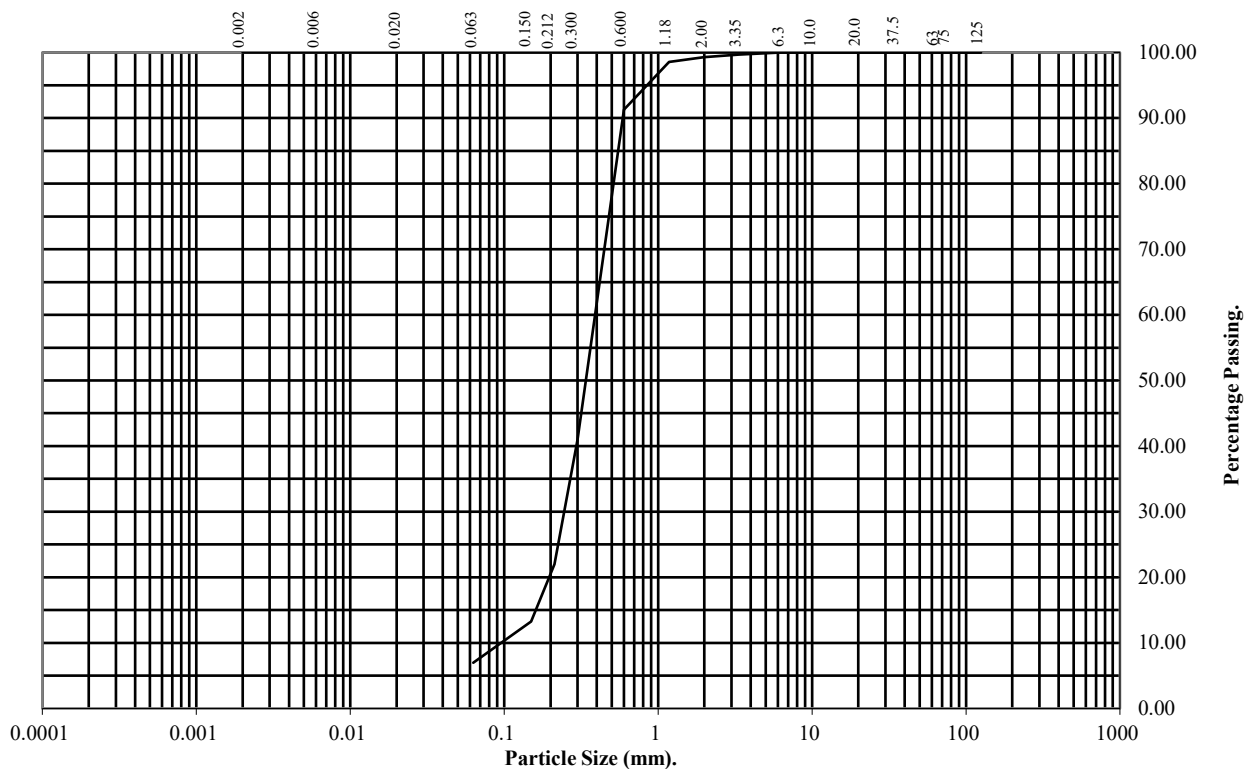
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH04 Top Depth (m): 2.00

Sample Number: 5 Base Depth(m): 2.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	99
1.18	99
0.6	91
0.3	41
0.212	22
0.15	13
0.063	7

Soil Fraction	Total Percentage
Cobbles	0
Gravel	1
Sand	92
Silt/Clay	7

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

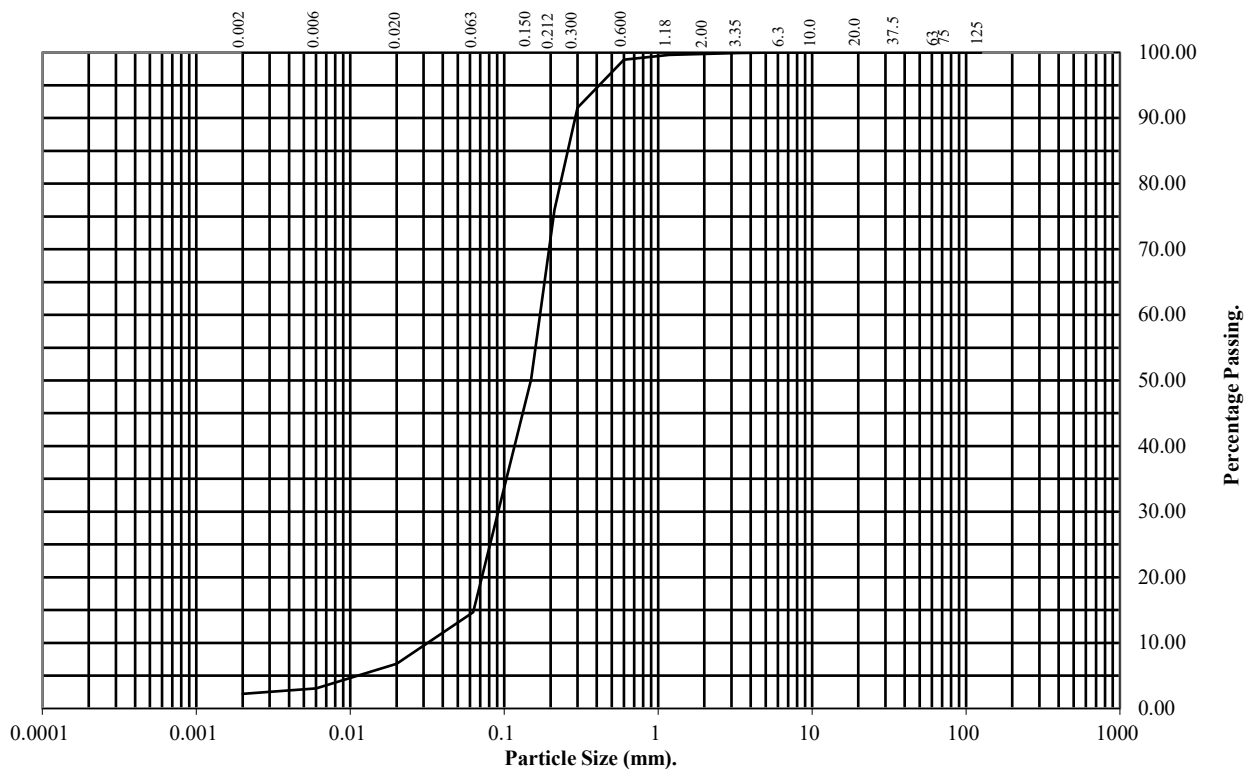
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH04 Top Depth (m): 3.00

Sample Number: 7 Base Depth(m): 3.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	92
0.212	76
0.15	50
0.063	15

Particle Diameter	Percentage Passing
0.02	7
0.006	3
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	85
Silt	13
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

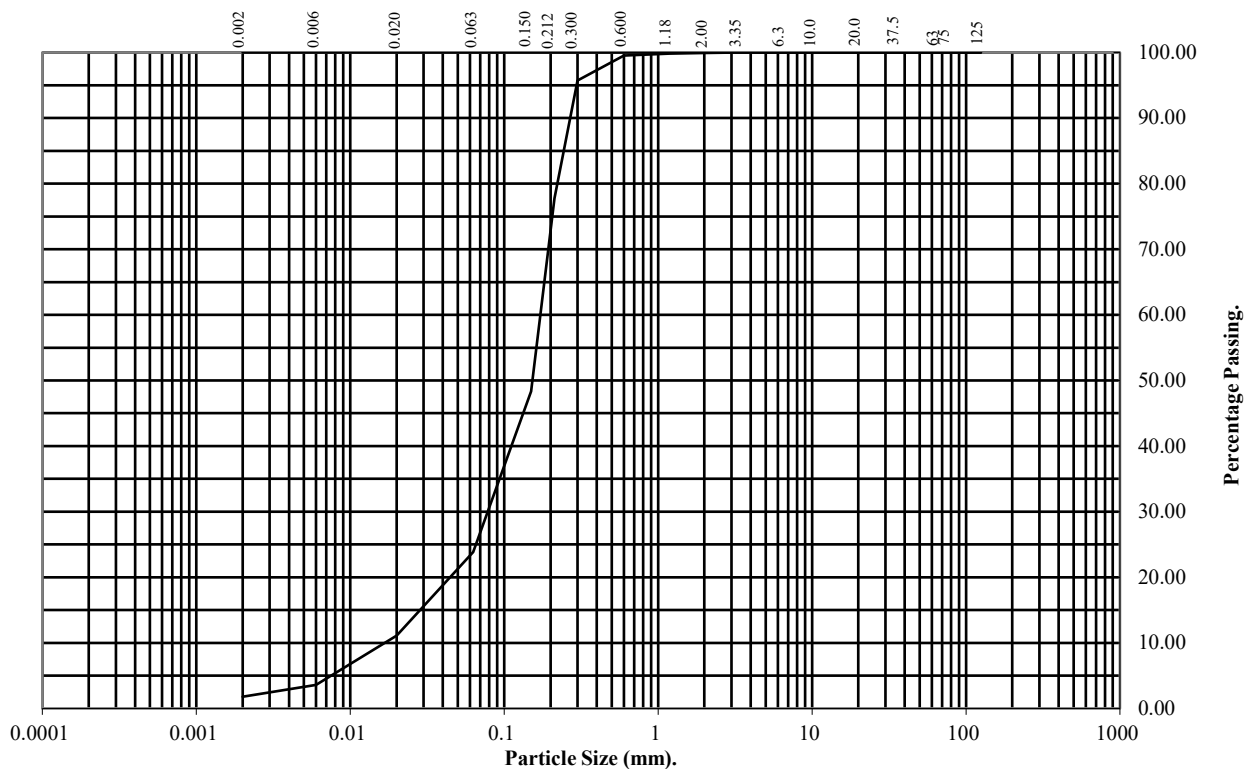
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH04 Top Depth (m): 4.50

Sample Number: 9 Base Depth(m): 4.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	96
0.212	78
0.15	48
0.063	24

Particle Diameter	Percentage Passing
0.02	11
0.006	4
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	76
Silt	22
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

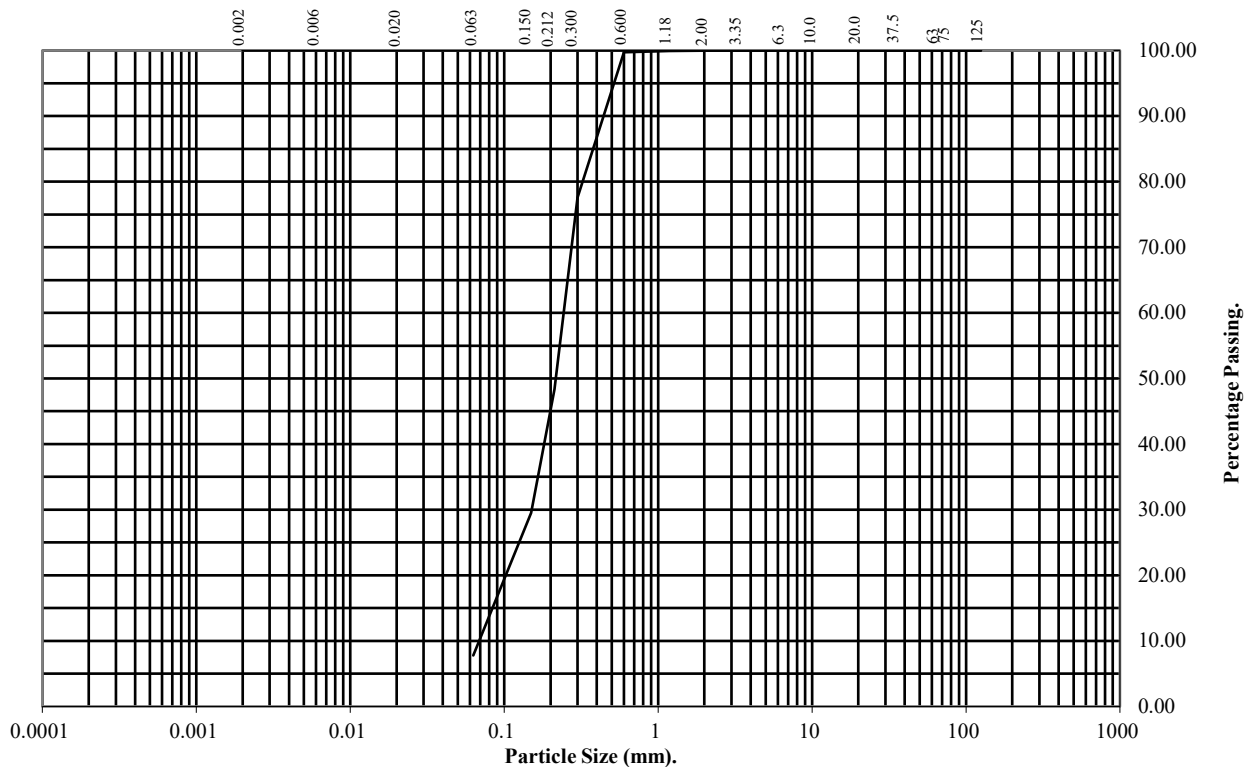
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH04 Top Depth (m): 6.00

Sample Number: 11 Base Depth(m): 6.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	78
0.212	48
0.15	30
0.063	8

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	92
Silt/Clay	8

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

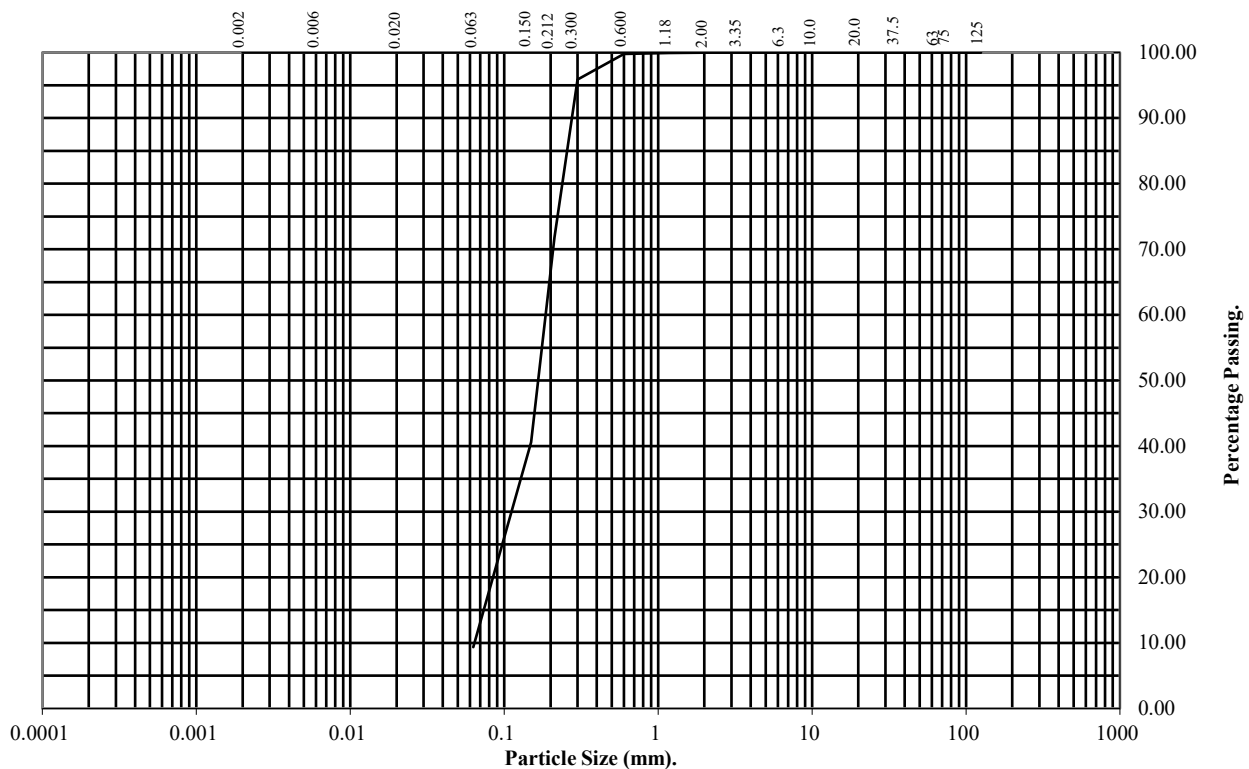
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH04 Top Depth (m): 9.00

Sample Number: 15 Base Depth(m): 9.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	96
0.212	72
0.15	41
0.063	9

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	91
Silt/Clay	9

Remarks:

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PARTICLE SIZE DISTRIBUTION TEST

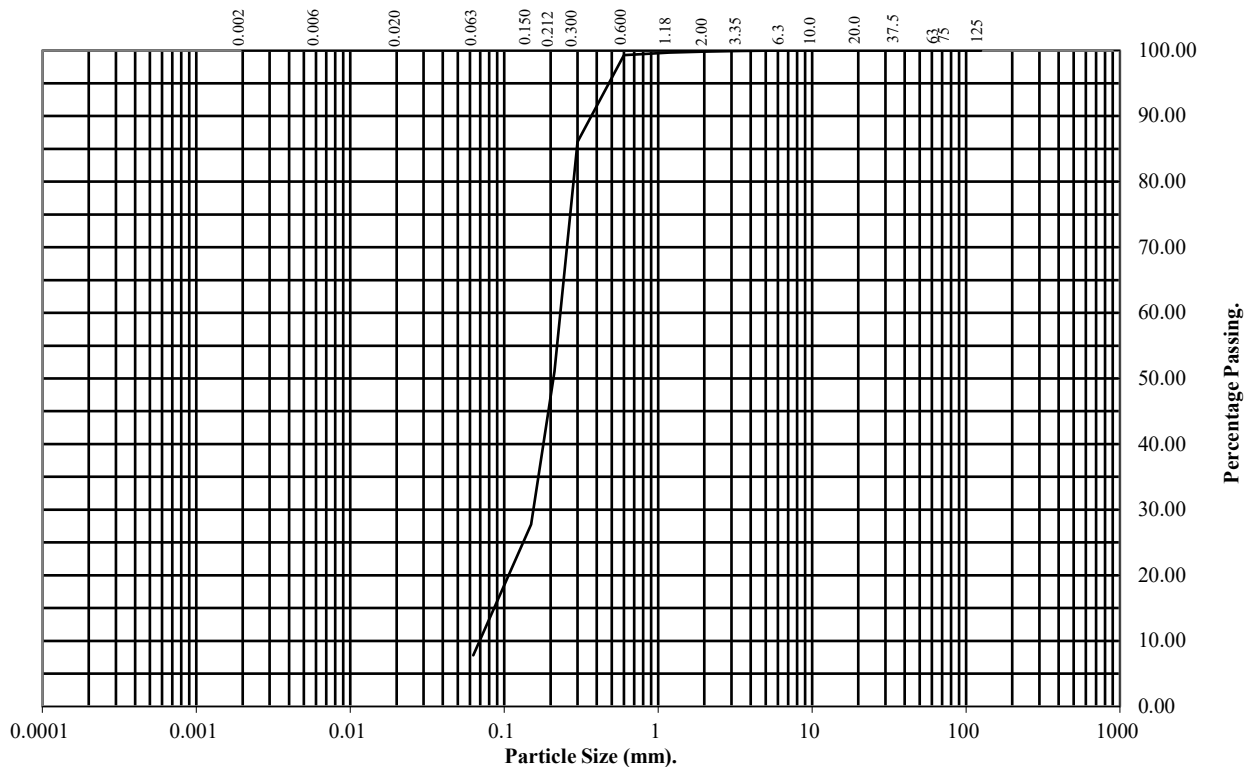
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH04 Top Depth (m): 12.00

Sample Number: 19 Base Depth(m): 12.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	86
0.212	51
0.15	28
0.063	8

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	92
Silt/Clay	8

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

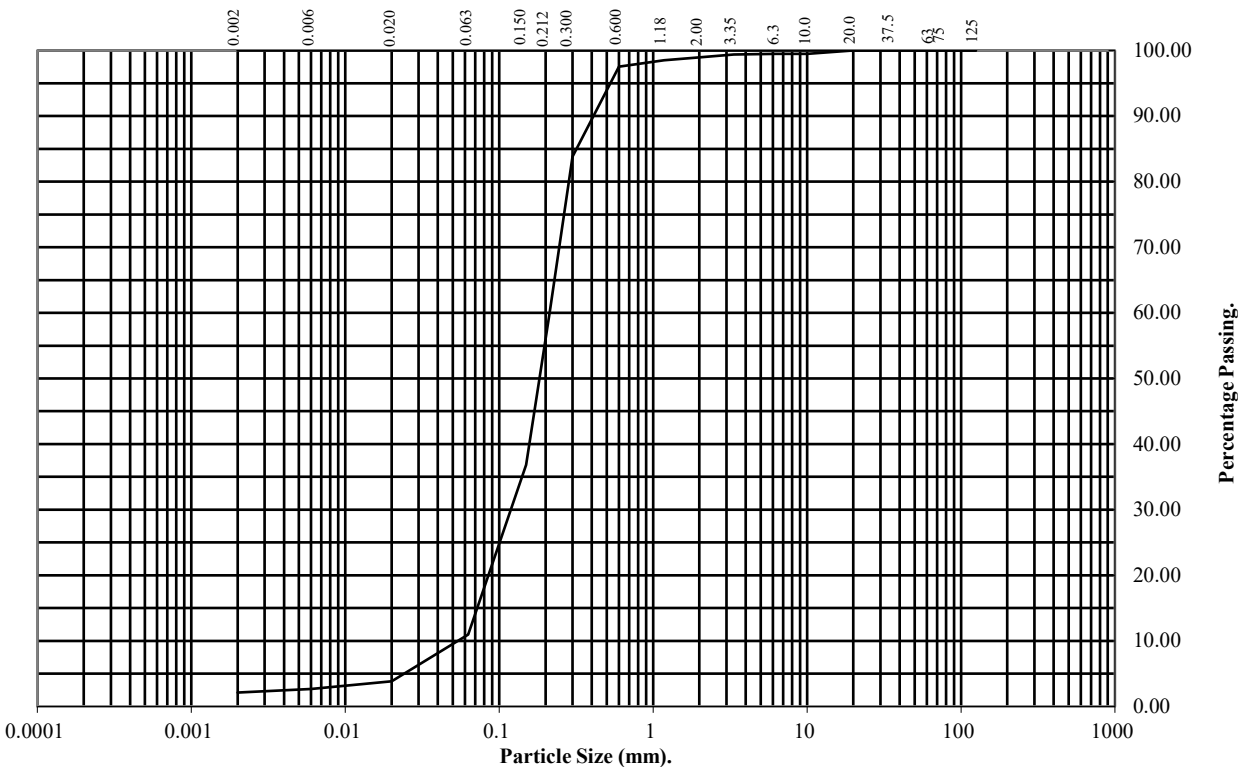
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH05 Top Depth (m): 0.40

Sample Number: 2 Base Depth(m): 1.20

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	99
6.3	99
3.35	99
2	99
1.18	99
0.6	98
0.3	84
0.212	60
0.15	37
0.063	11

Particle Diameter	Percentage Passing
0.02	4
0.006	3
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	1
Sand	88
Silt	9
Clay	2

Remarks:

See Summary of Soil Descriptions



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

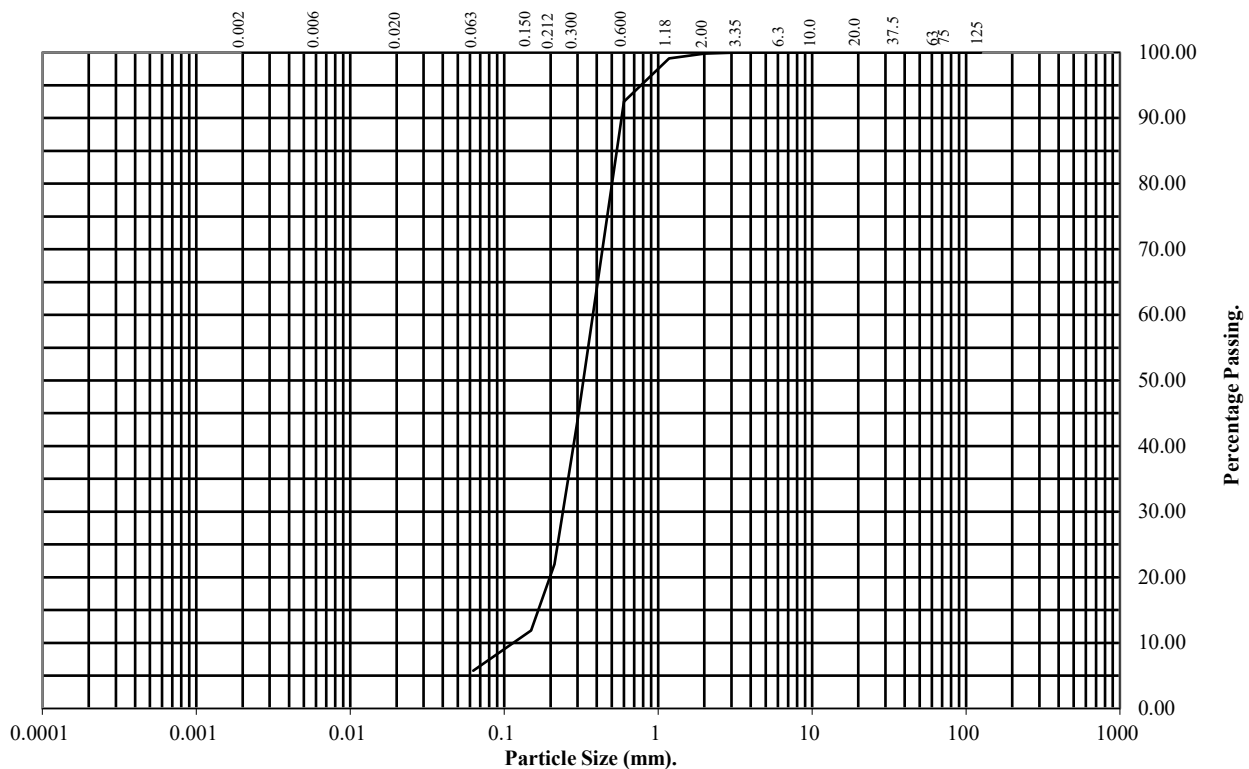
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH05 Top Depth (m): 2.00

Sample Number: 4 Base Depth(m): 2.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	99
0.6	92
0.3	44
0.212	22
0.15	12
0.063	6

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	94
Silt/Clay	6

Remarks:

See Summary of Soil Descriptions



Cowm Top

Contract No:
PSL24/5600
Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

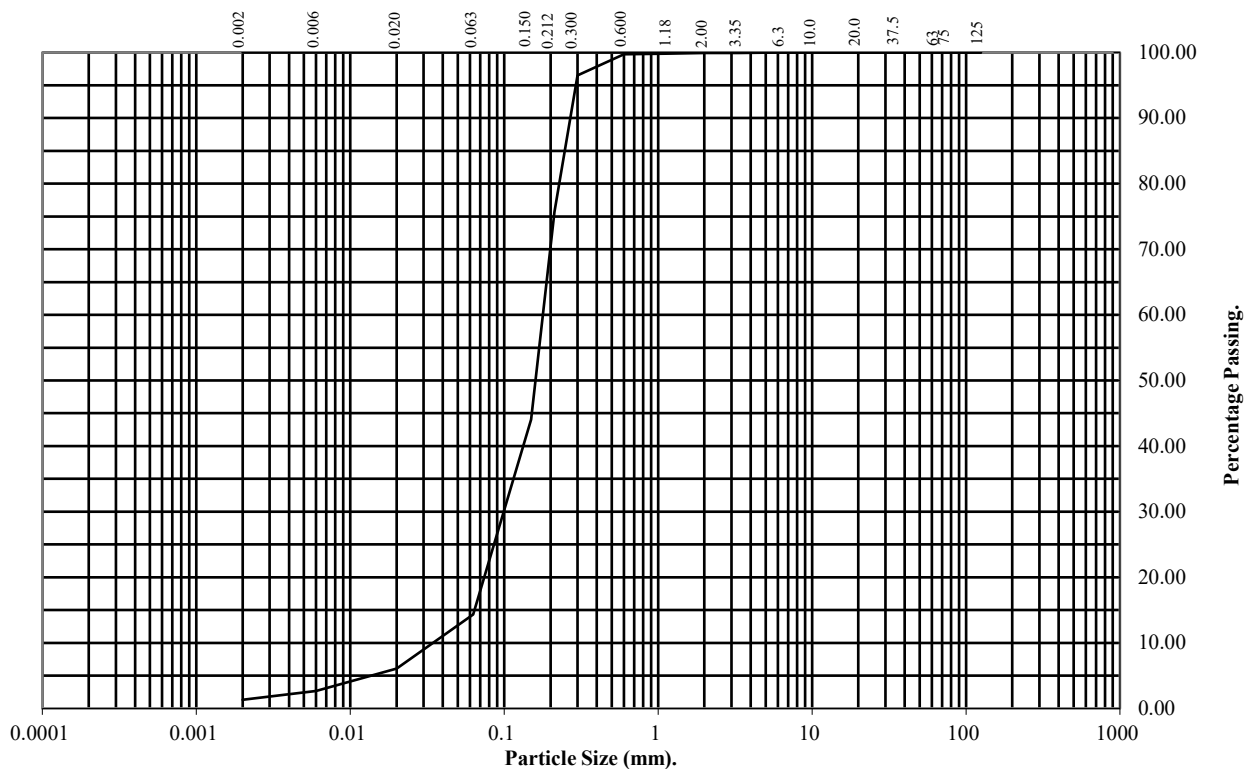
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH05 Top Depth (m): 4.00

Sample Number: 6 Base Depth(m): 4.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	97
0.212	76
0.15	44
0.063	14

Particle Diameter	Percentage Passing
0.02	6
0.006	3
0.002	1

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	86
Silt	13
Clay	1

Remarks:

See Summary of Soil Descriptions



Cowm Top

Contract No:
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PARTICLE SIZE DISTRIBUTION TEST

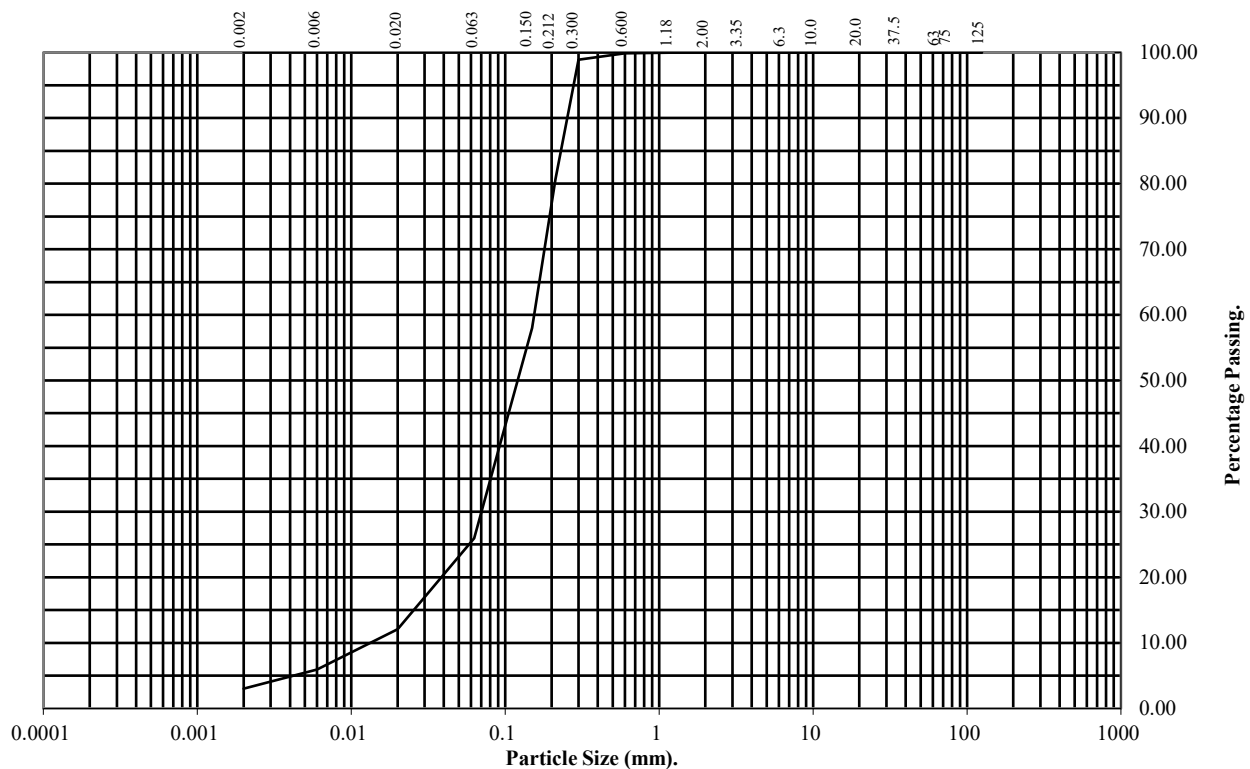
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH05 Top Depth (m): 5.00

Sample Number: 7 Base Depth(m): 5.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	99
0.212	81
0.15	58
0.063	26

Particle Diameter	Percentage Passing
0.02	12
0.006	6
0.002	3

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	74
Silt	23
Clay	3

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

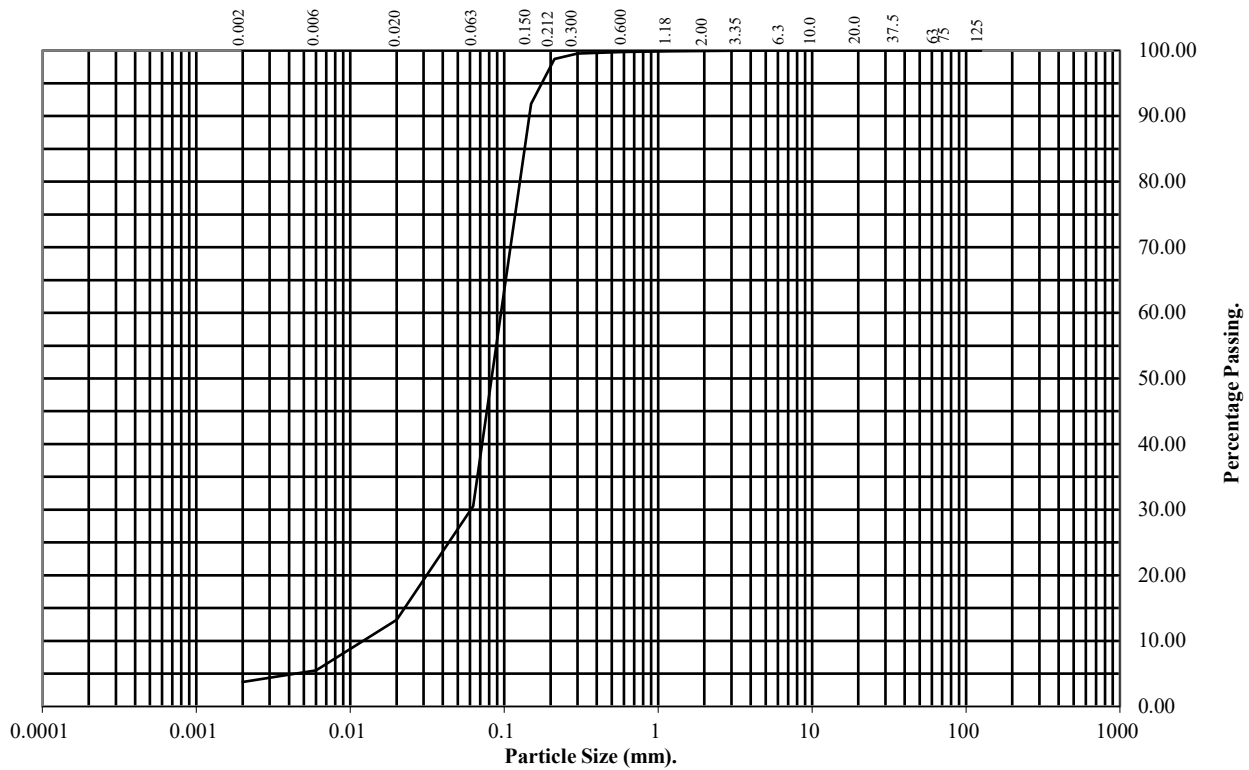
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH05 Top Depth (m): 6.50

Sample Number: 15 Base Depth(m): 6.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	99
0.15	92
0.063	31

Particle Diameter	Percentage Passing
0.02	13
0.006	6
0.002	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	69
Silt	27
Clay	4

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

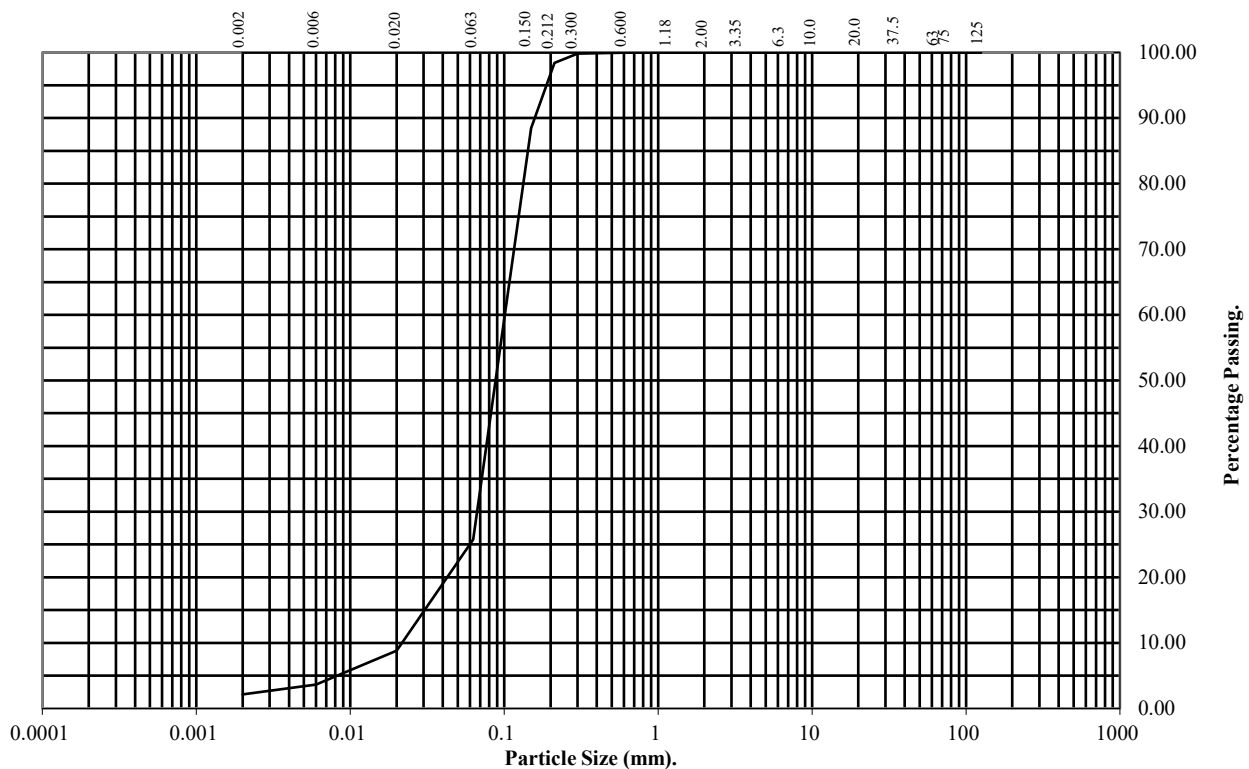
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH05 Top Depth (m): 8.00

Sample Number: 17 Base Depth(m): 8.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	98
0.15	88
0.063	26

Particle Diameter	Percentage Passing
0.02	9
0.006	4
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	74
Silt	24
Clay	2

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

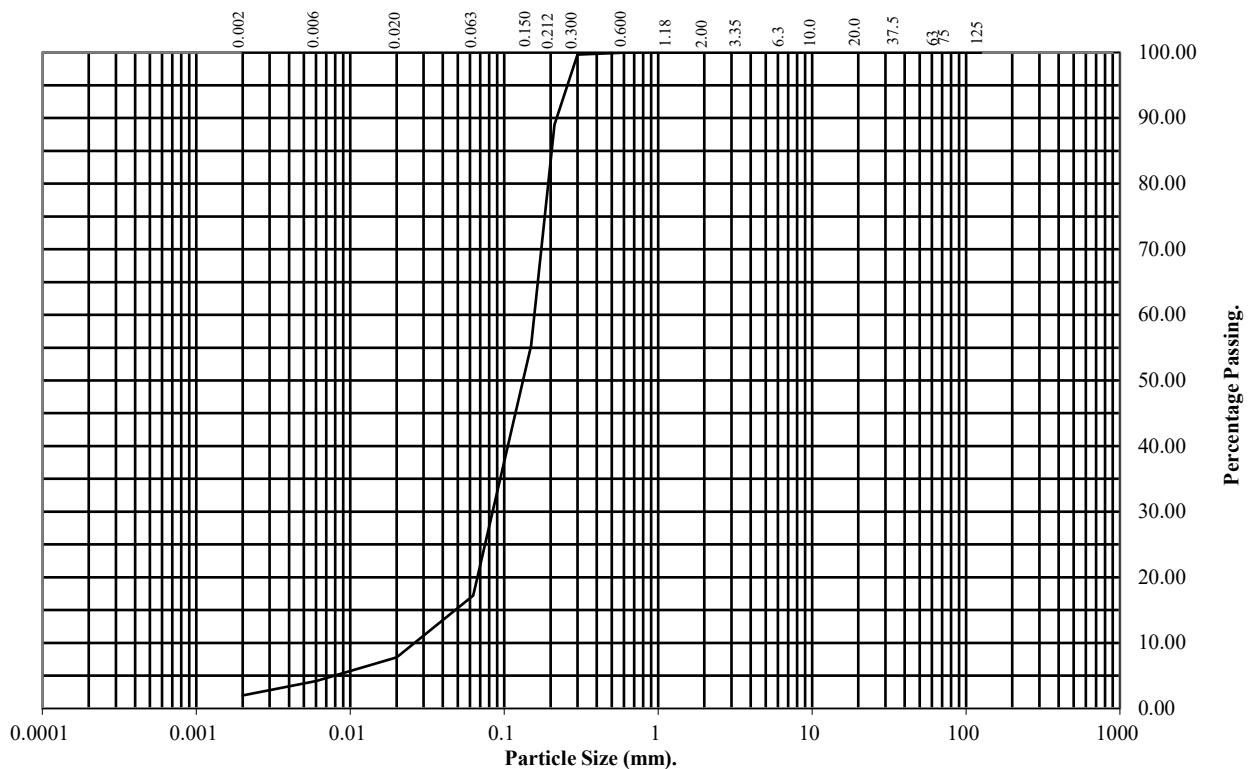
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH05 Top Depth (m): 9.50

Sample Number: 18 Base Depth(m): 9.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	89
0.15	55
0.063	17

Particle Diameter	Percentage Passing
0.02	8
0.006	4
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	83
Silt	15
Clay	2

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

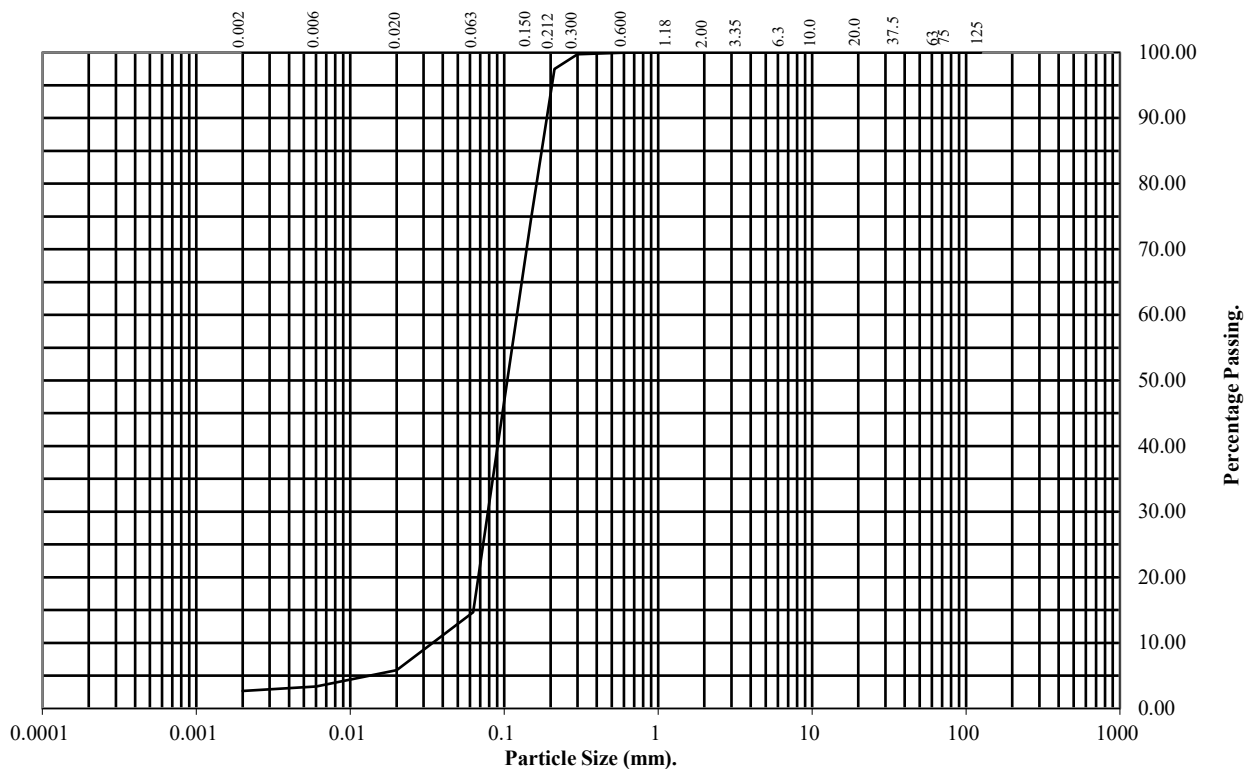
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH05 Top Depth (m): 11.00

Sample Number: 19 Base Depth(m): 11.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	97
0.15	75
0.063	15

Particle Diameter	Percentage Passing
0.02	6
0.006	3
0.002	3

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	85
Silt	12
Clay	3

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

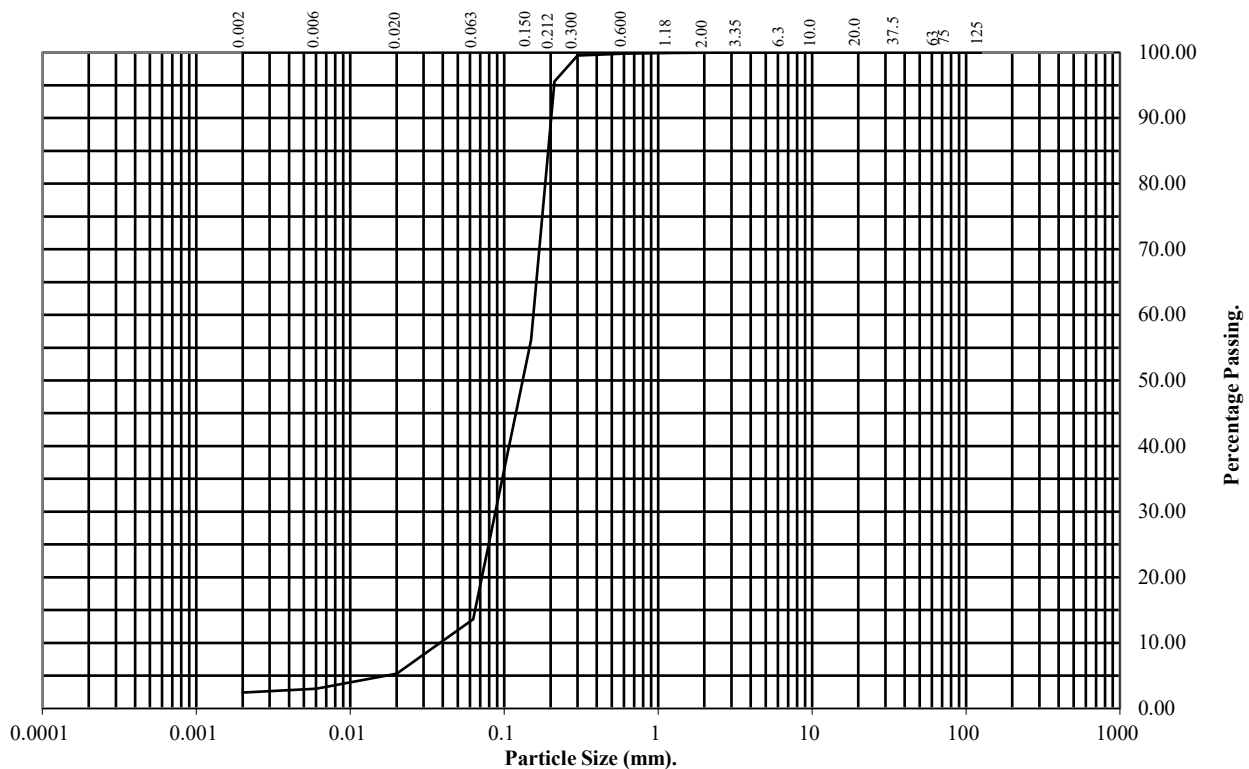
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH05 Top Depth (m): 12.50

Sample Number: 20 Base Depth(m): 12.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	96
0.15	56
0.063	14

Particle Diameter	Percentage Passing
0.02	5
0.006	3
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	86
Silt	12
Clay	2

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

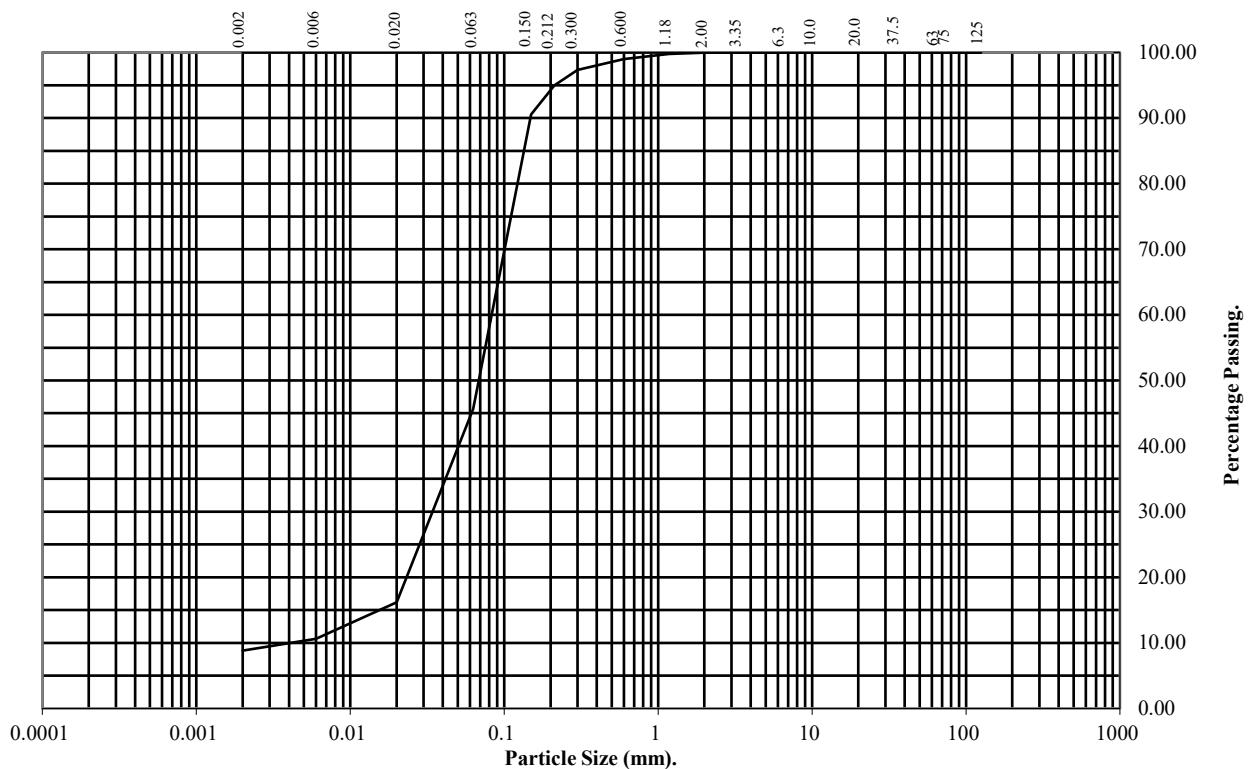
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH06 Top Depth (m): 0.40

Sample Number: 4 Base Depth(m): 1.20

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	97
0.212	95
0.15	91
0.063	46

Particle Diameter	Percentage Passing
0.02	16
0.006	11
0.002	9

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	54
Silt	37
Clay	9

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

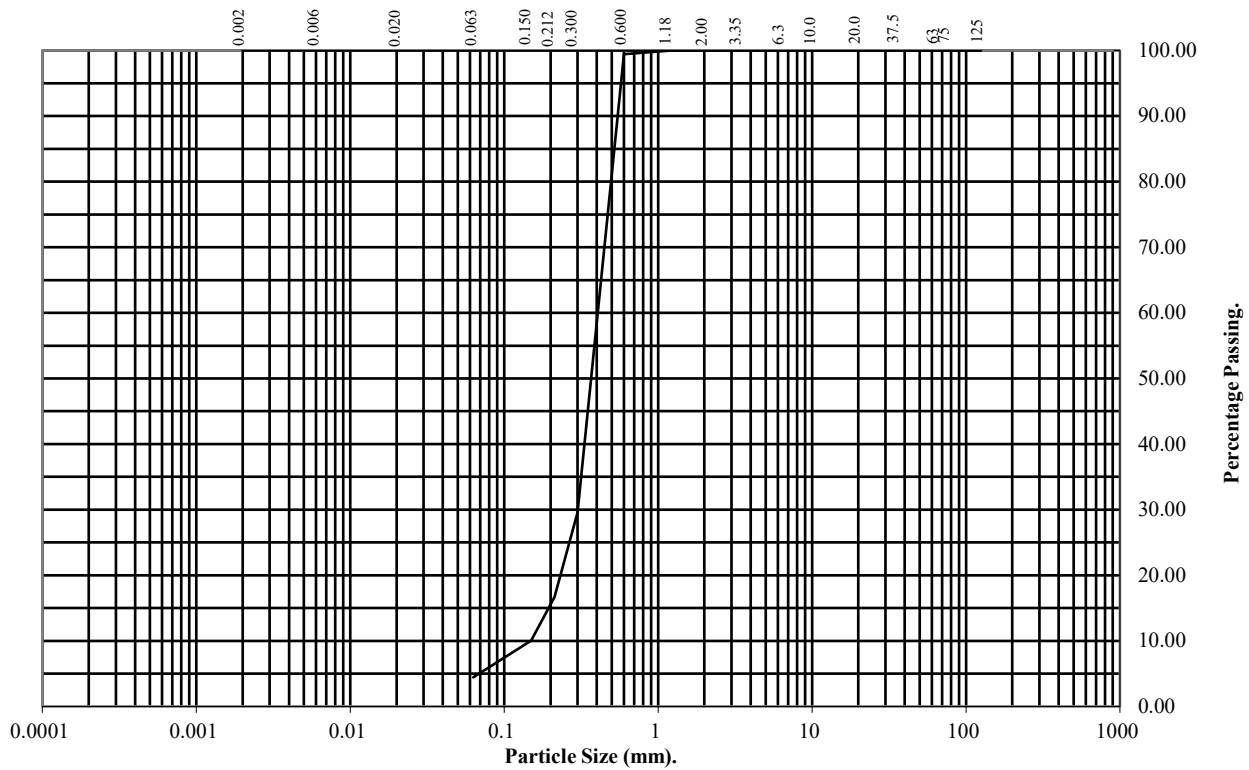
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH06 Top Depth (m): 9.00

Sample Number: 16 Base Depth(m): 9.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	30
0.212	17
0.15	10
0.063	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	96
Silt/Clay	4

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

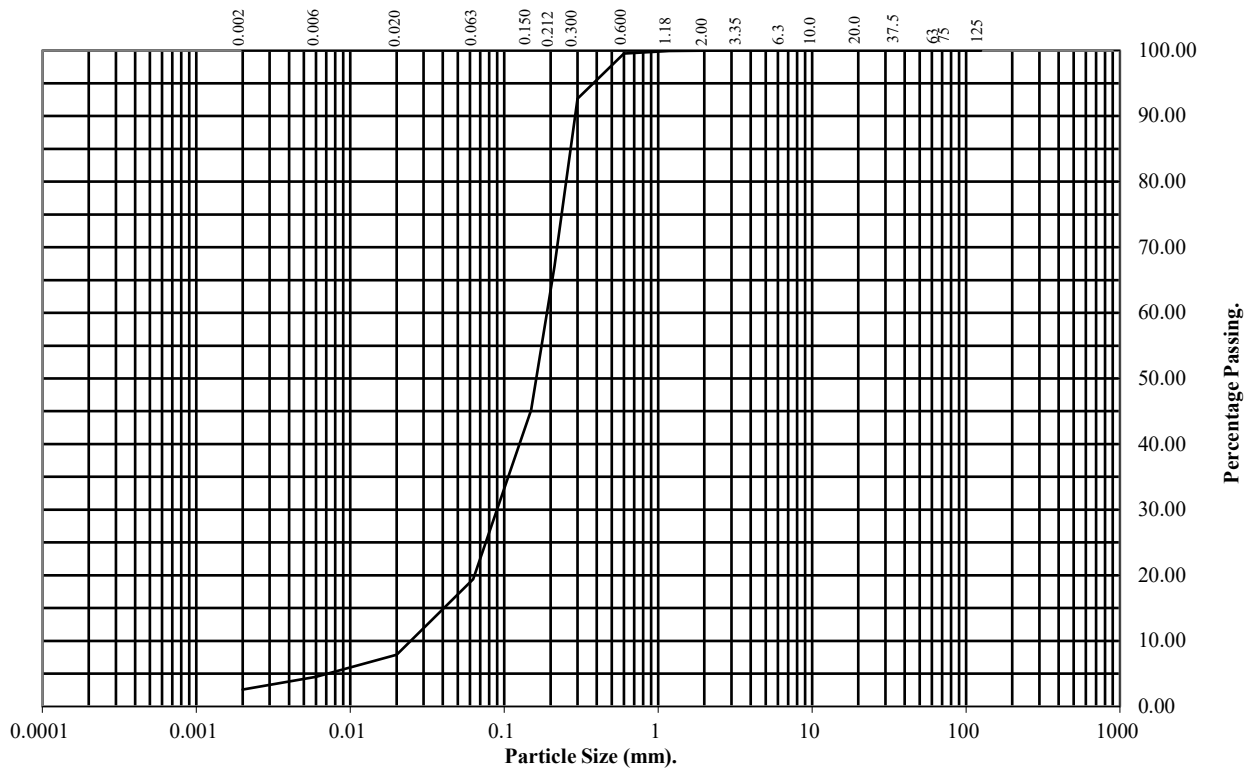
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH06 Top Depth (m): 10.50

Sample Number: 17 Base Depth(m): 10.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	93
0.212	67
0.15	45
0.063	19

Particle Diameter	Percentage Passing
0.02	8
0.006	5
0.002	3

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	81
Silt	16
Clay	3

Remarks:
See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

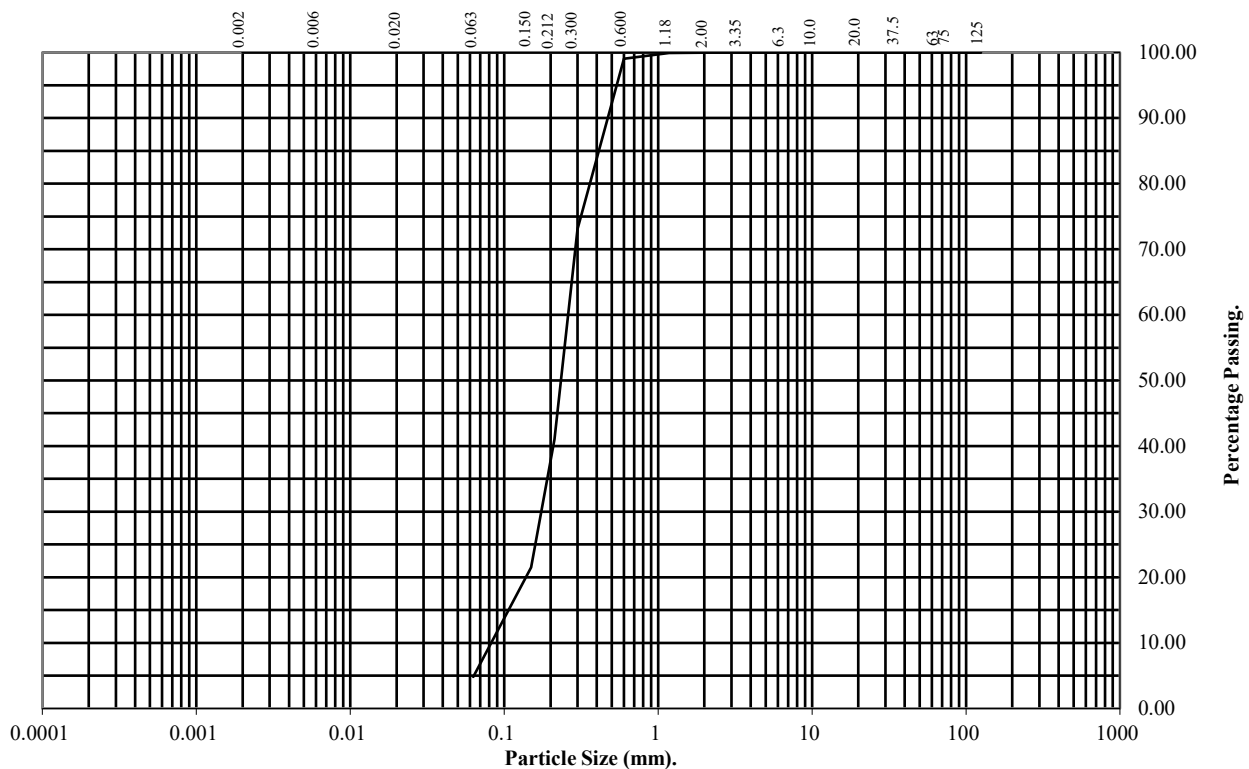
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH06 Top Depth (m): 12.00

Sample Number: 18 Base Depth(m): 12.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	73
0.212	41
0.15	21
0.063	5

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	95
Silt/Clay	5

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

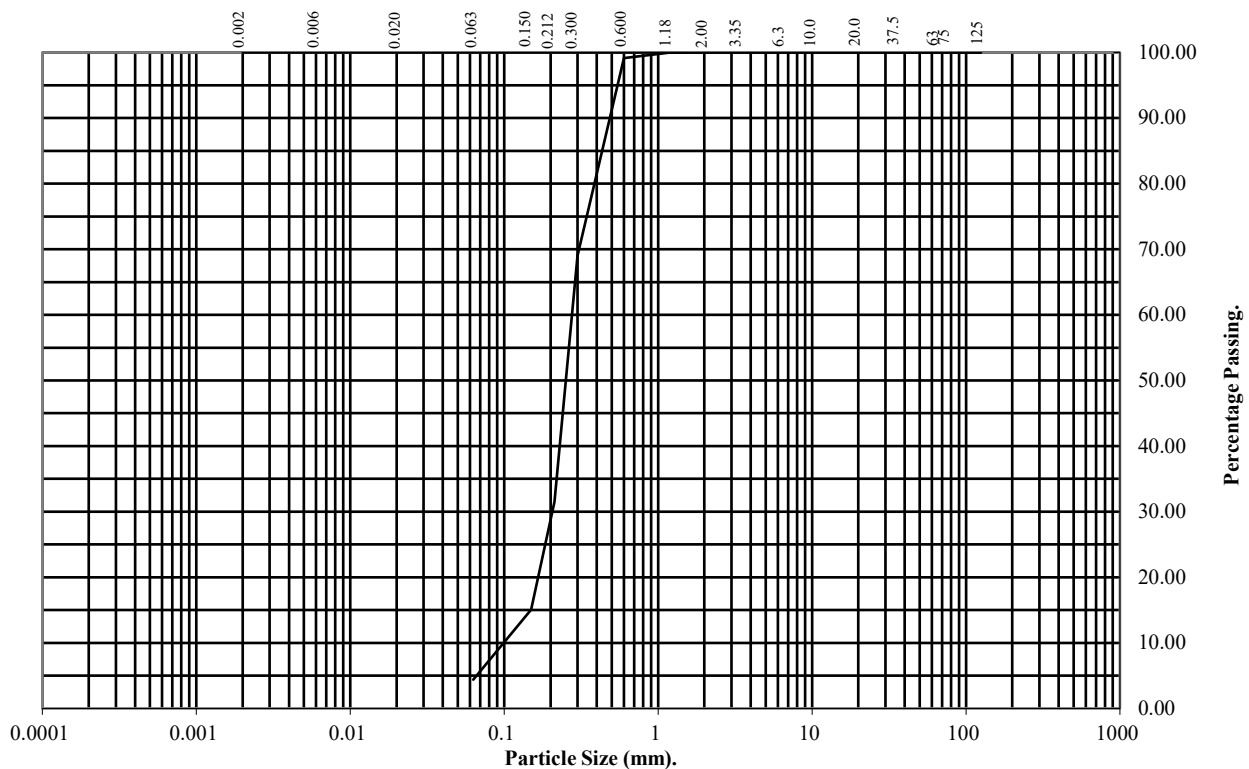
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH06 Top Depth (m): 13.50

Sample Number: 19 Base Depth(m): 13.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	69
0.212	32
0.15	15
0.063	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	96
Silt/Clay	4

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

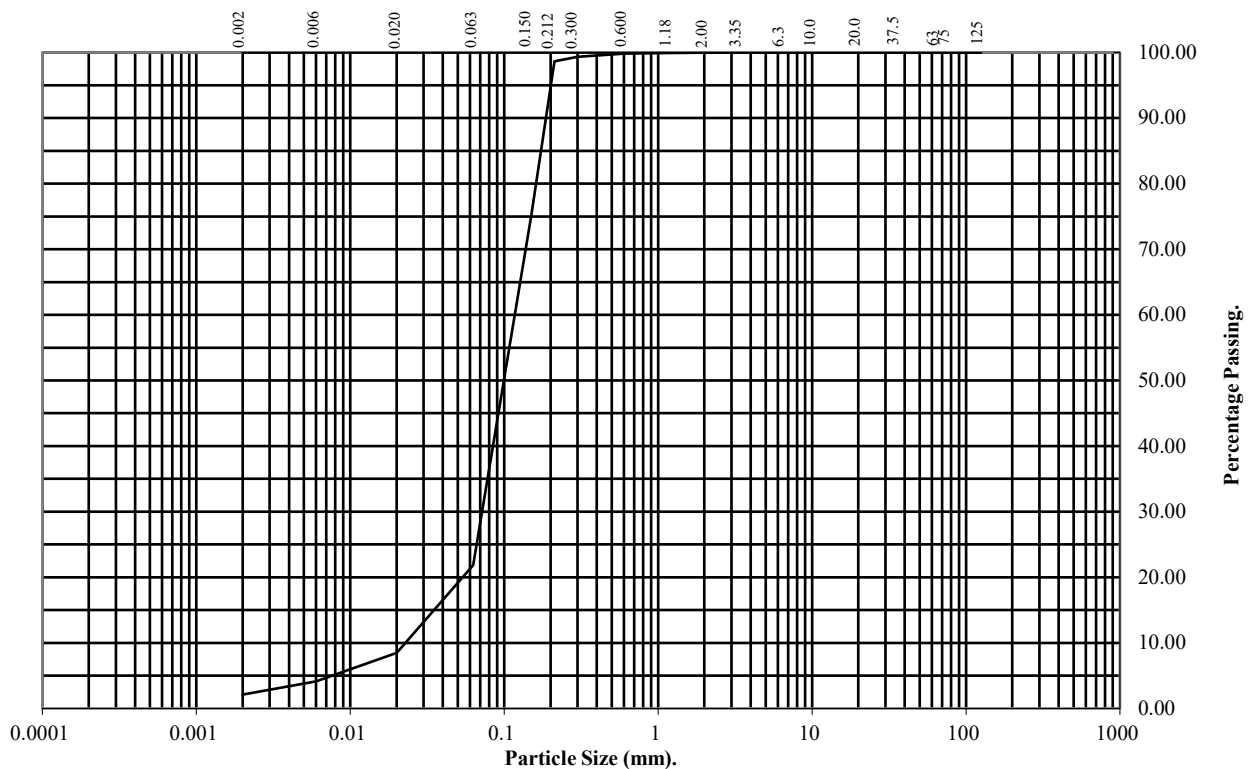
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH07 Top Depth (m): 1.50

Sample Number: 3 Base Depth(m): 1.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	99
0.212	99
0.15	75
0.063	22

Particle Diameter	Percentage Passing
0.02	8
0.006	4
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	78
Silt	20
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

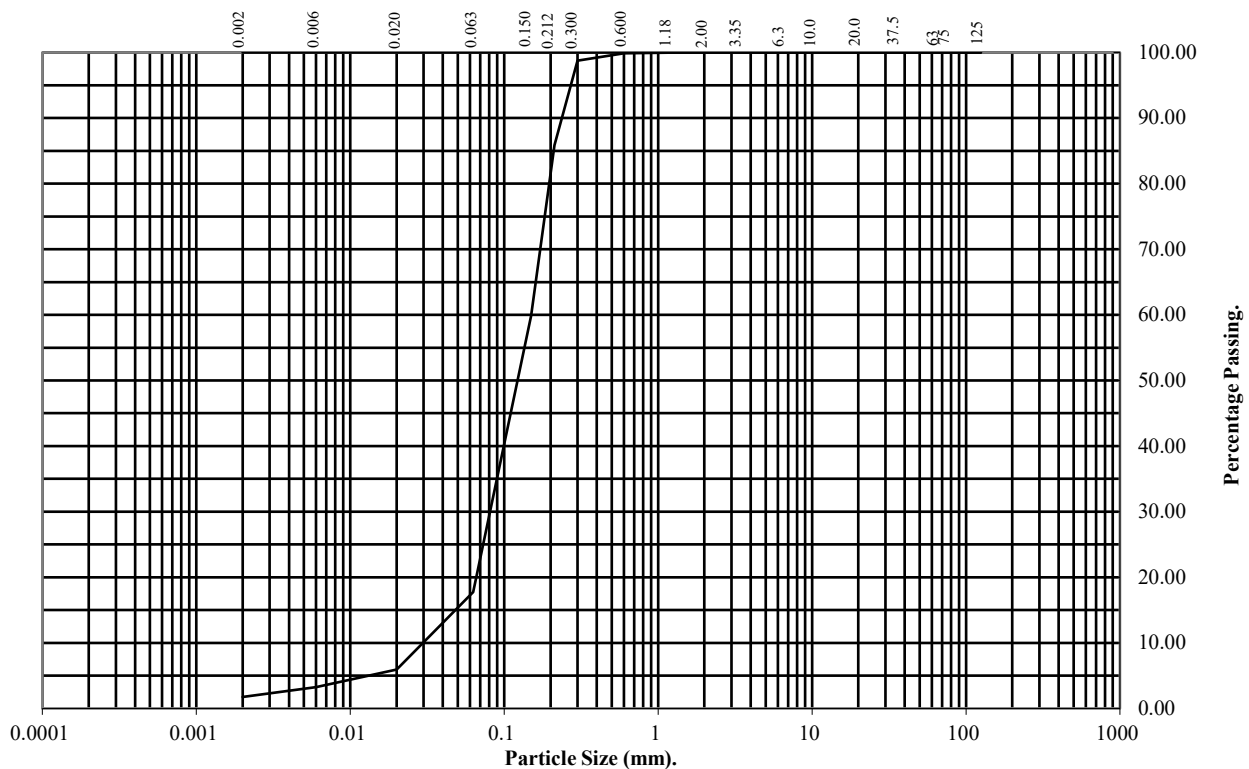
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH07 Top Depth (m): 3.00

Sample Number: 4 Base Depth(m): 3.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	99
0.212	86
0.15	60
0.063	18

Particle Diameter	Percentage Passing
0.02	6
0.006	3
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	82
Silt	16
Clay	2

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

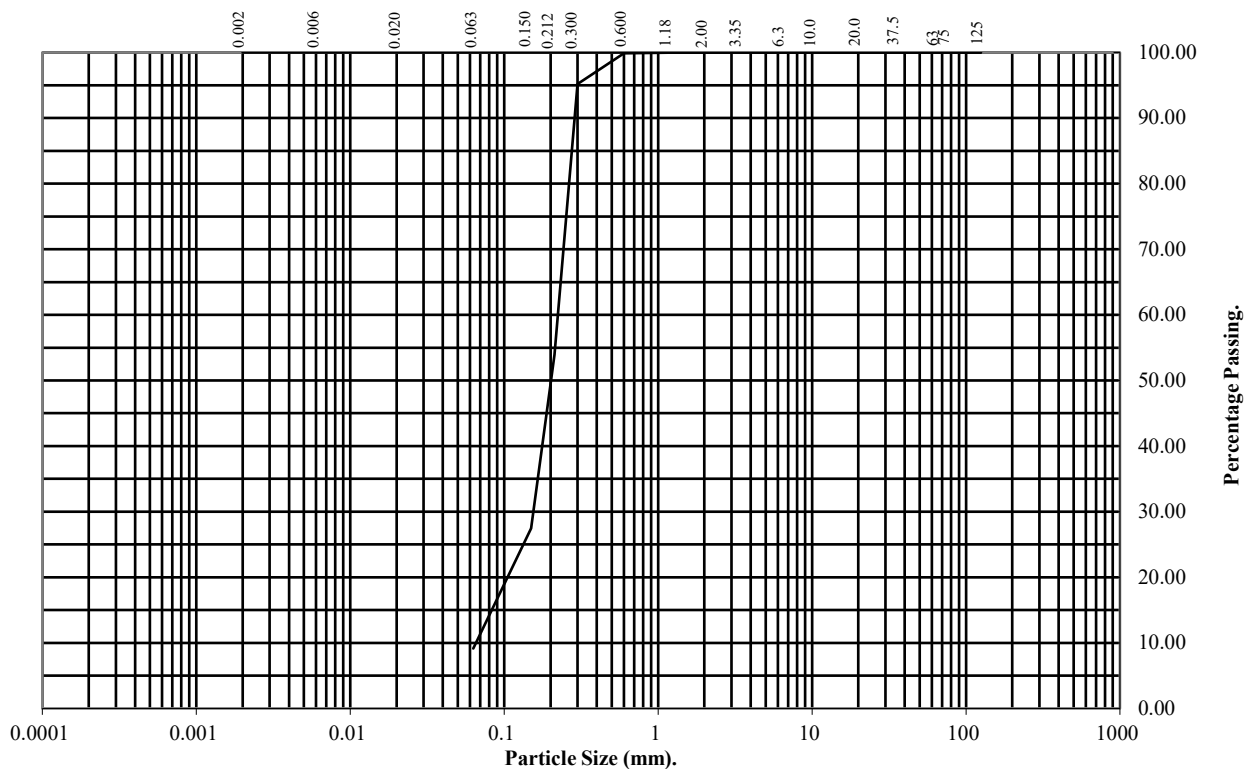
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH07 Top Depth (m): 4.50

Sample Number: 5 Base Depth(m): 4.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	95
0.212	54
0.15	27
0.063	9

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	91
Silt/Clay	9

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

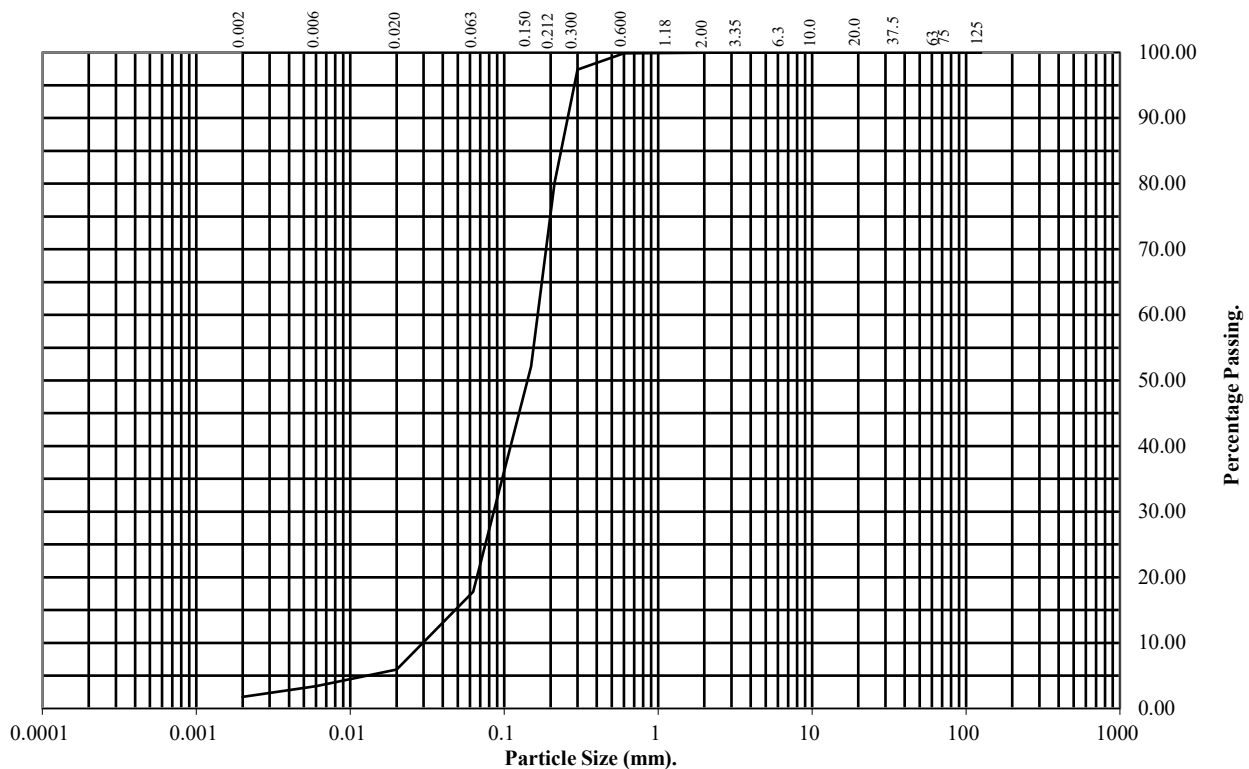
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH07 Top Depth (m): 7.50

Sample Number: 7 Base Depth(m): 7.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	97
0.212	80
0.15	52
0.063	18

Particle Diameter	Percentage Passing
0.02	6
0.006	3
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	82
Silt	16
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

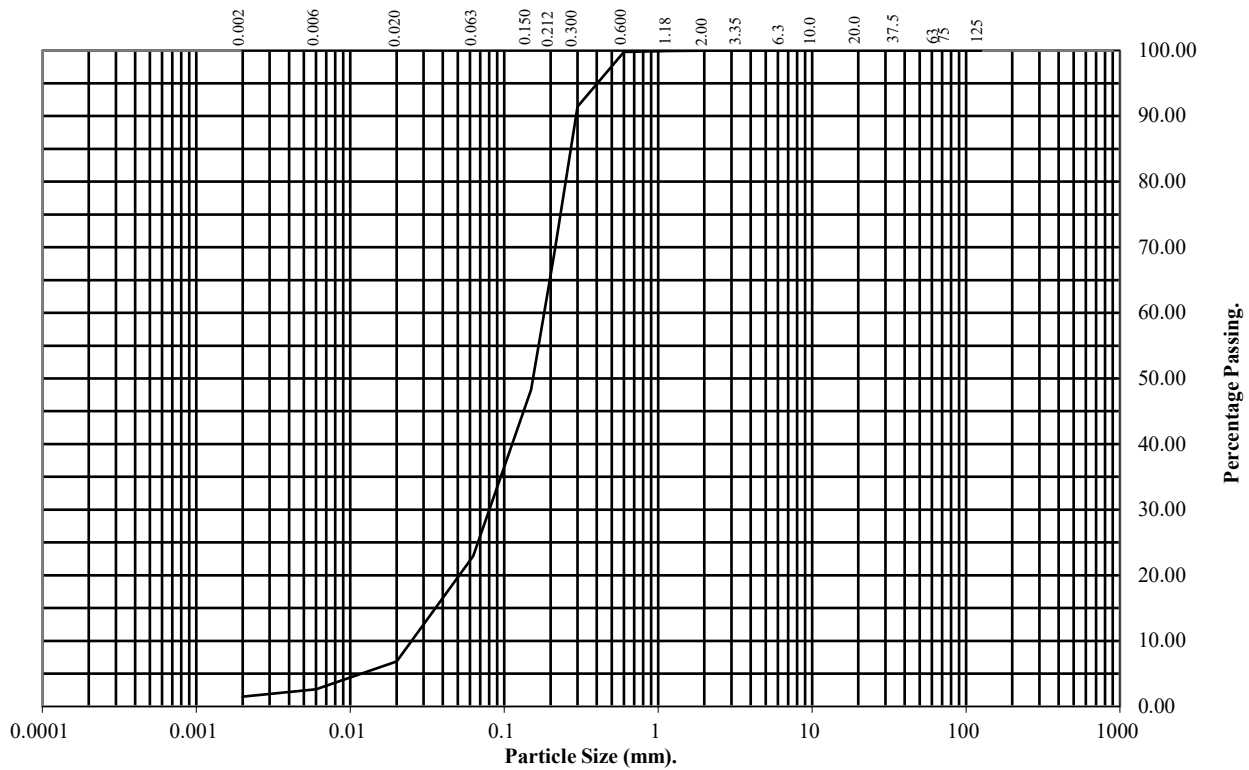
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH07 Top Depth (m): 10.50

Sample Number: 8 Base Depth(m): 10.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	91
0.212	69
0.15	48
0.063	23

Particle Diameter	Percentage Passing
0.02	7
0.006	3
0.002	1

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	77
Silt	22
Clay	1

Remarks:

See Summary of Soil Descriptions



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Contract No:
PSL24/5600
Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

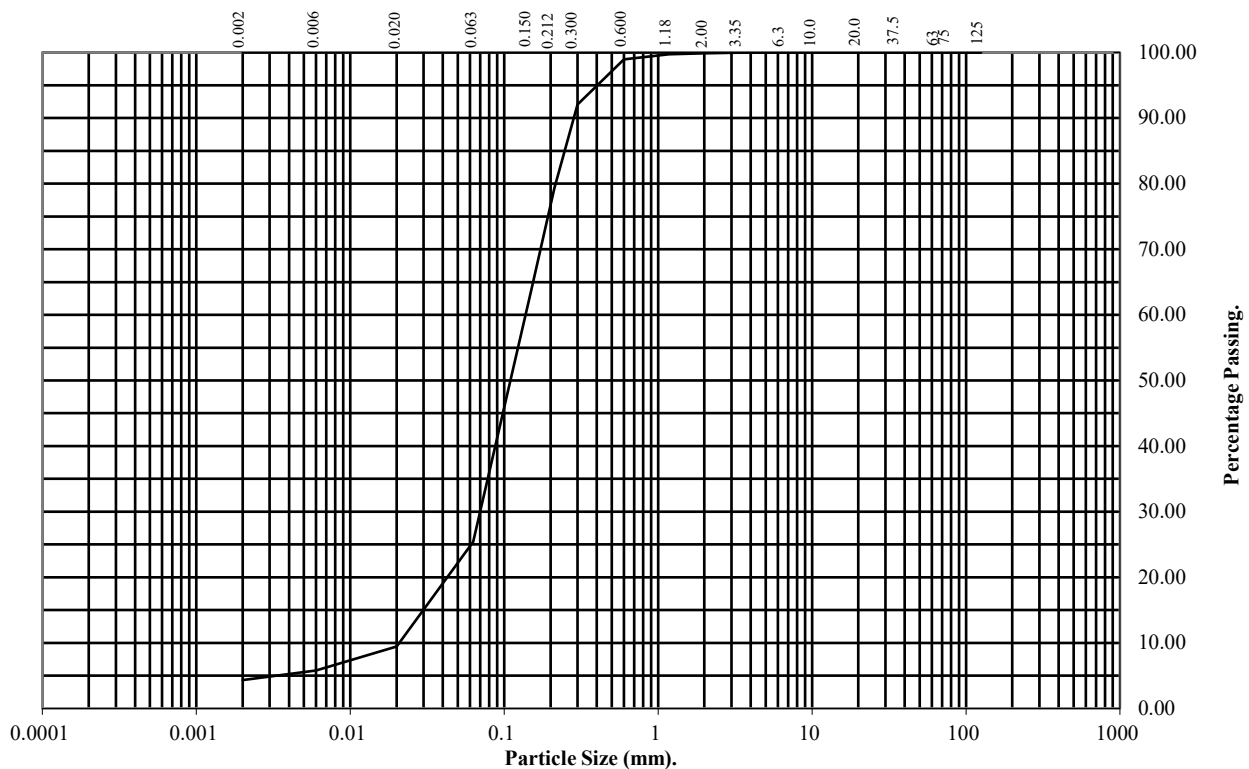
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH07 Top Depth (m): 12.00

Sample Number: 9 Base Depth(m): 12.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	92
0.212	79
0.15	64
0.063	25

Particle Diameter	Percentage Passing
0.02	9
0.006	6
0.002	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	75
Silt	21
Clay	4

Remarks:

See Summary of Soil Descriptions



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Contract No:
PSL24/5600
Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

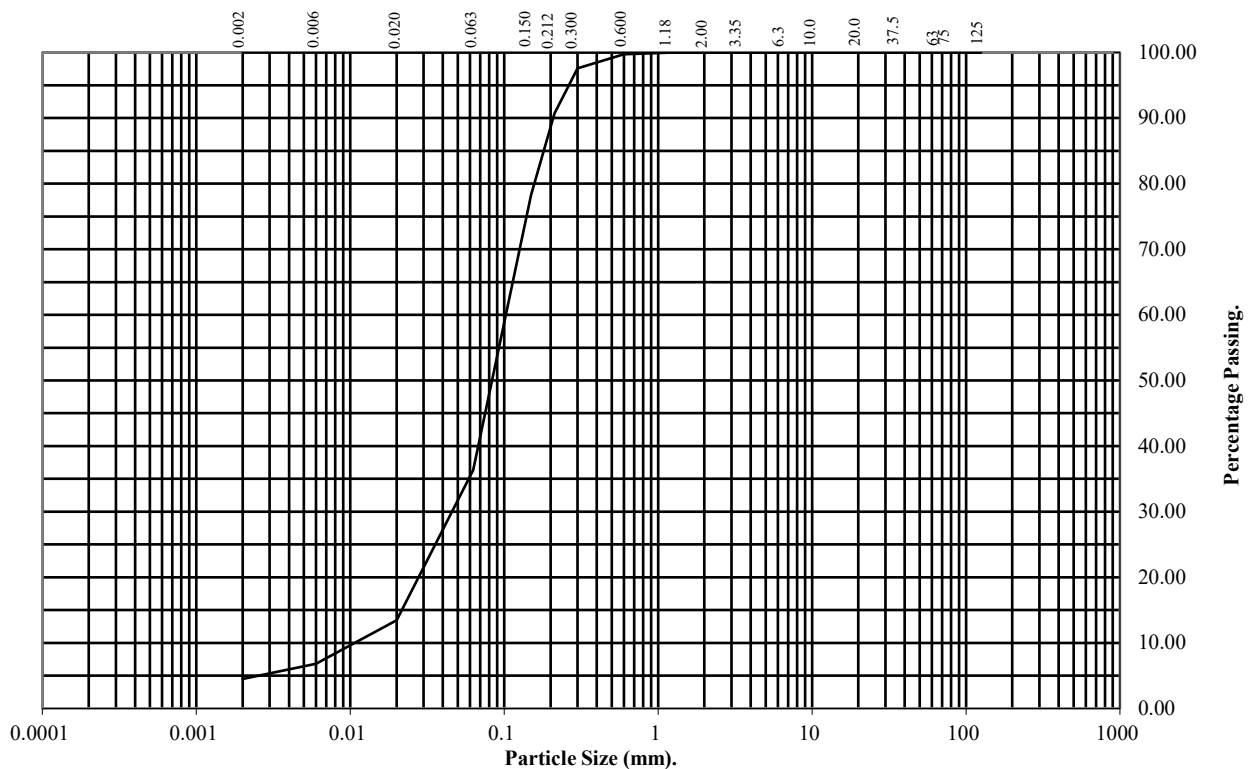
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH07 Top Depth (m): 13.50

Sample Number: 10 Base Depth(m): 13.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	98
0.212	91
0.15	78
0.063	36

Particle Diameter	Percentage Passing
0.02	13
0.006	7
0.002	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	64
Silt	32
Clay	4

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

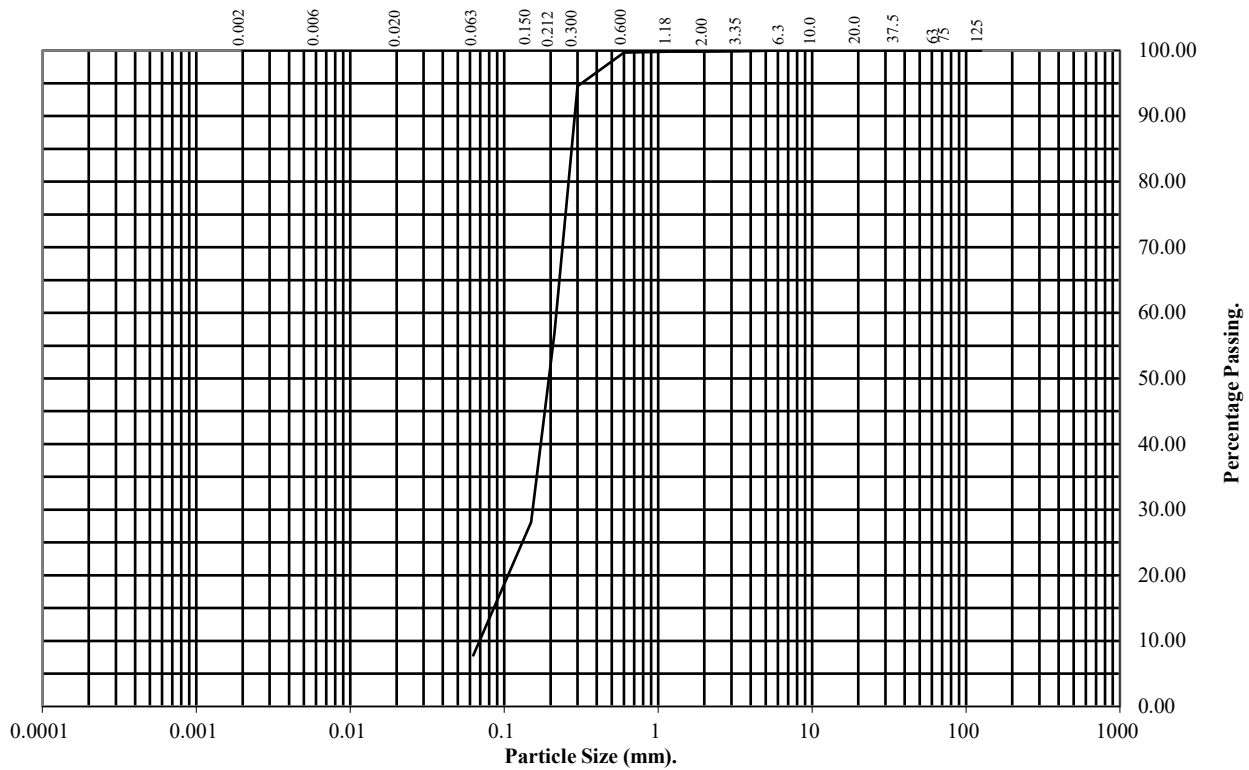
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH08 Top Depth (m): 0.40

Sample Number: 2 Base Depth(m): 1.50

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	95
0.212	57
0.15	28
0.063	8

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	92
Silt/Clay	8

Remarks:

See Summary of Soil Descriptions



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Contract No:
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Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

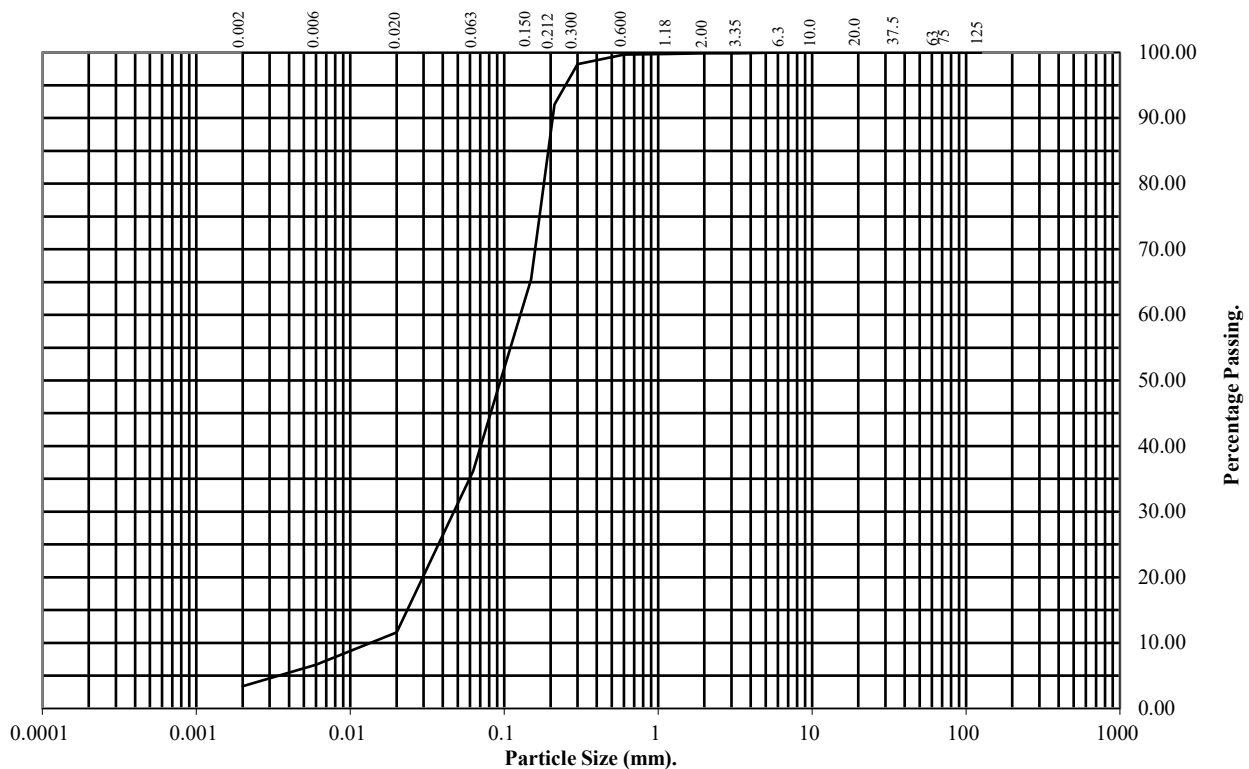
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: **BH08** Top Depth (m): **2.00**

Sample Number: **4** Base Depth(m): **3.00**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	98
0.212	92
0.15	65
0.063	36

Particle Diameter	Percentage Passing
0.02	12
0.006	7
0.002	3

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	64
Silt	33
Clay	3

Remarks:

See Summary of Soil Descriptions



Cowm Top

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PARTICLE SIZE DISTRIBUTION TEST

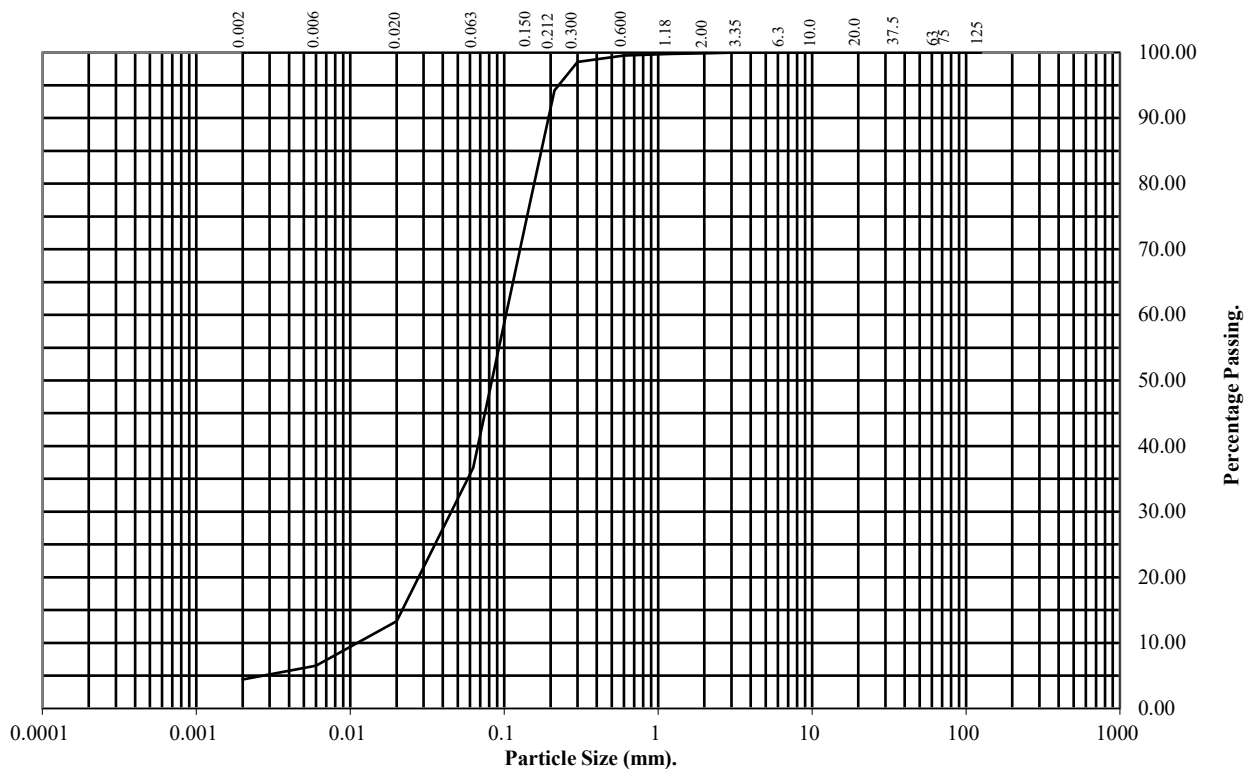
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: **BH08** Top Depth (m): **3.50**

Sample Number: **6** Base Depth(m): **4.50**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	99
0.212	94
0.15	78
0.063	37

Particle Diameter	Percentage Passing
0.02	13
0.006	7
0.002	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	63
Silt	33
Clay	4

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

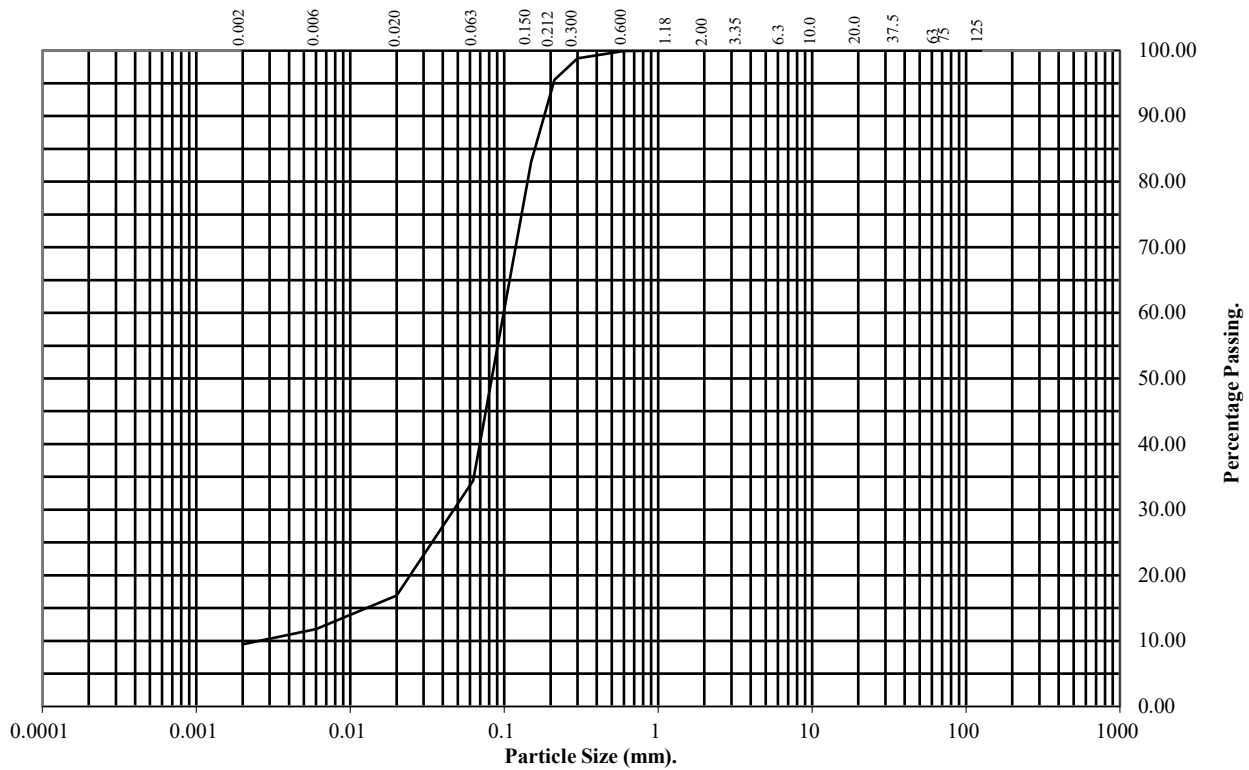
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH08 Top Depth (m): 4.50

Sample Number: 7 Base Depth(m): 6.00

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	99
0.212	96
0.15	83
0.063	34

Particle Diameter	Percentage Passing
0.02	17
0.006	12
0.002	9

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	66
Silt	25
Clay	9

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

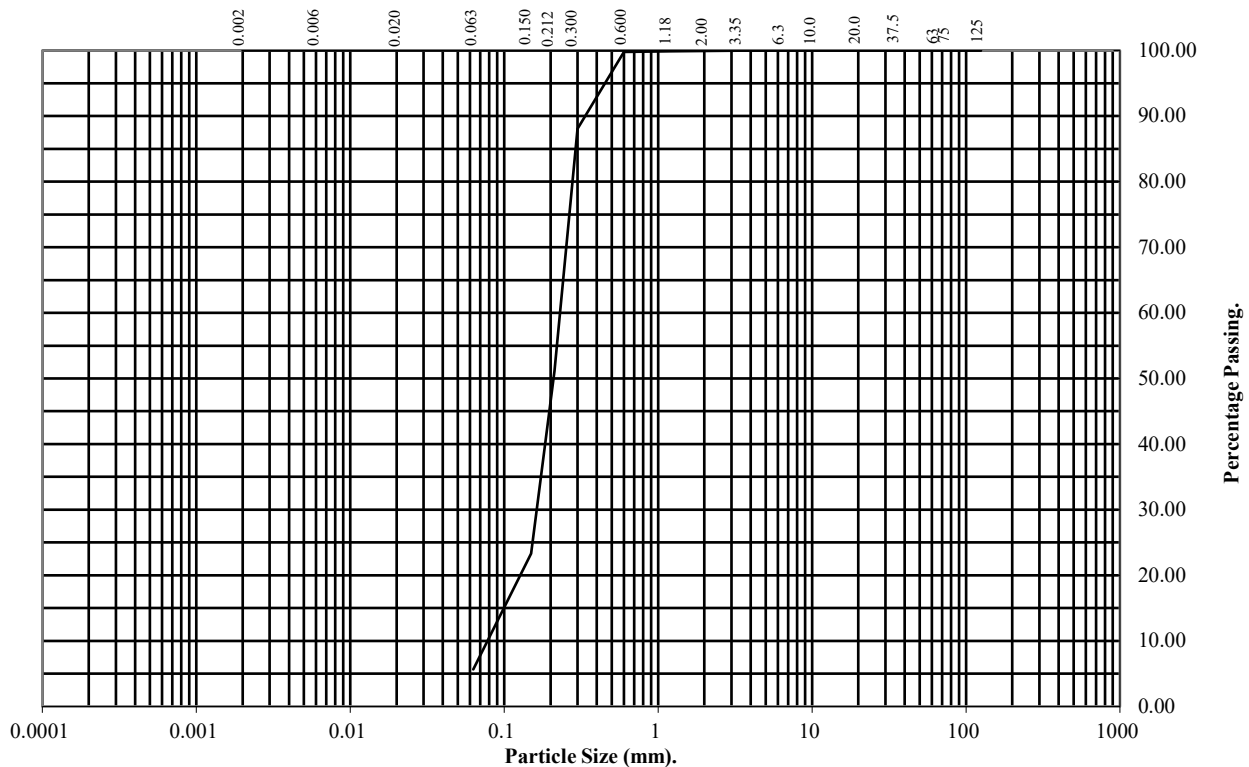
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH08 Top Depth (m): 8.00

Sample Number: 12 Base Depth(m): 8.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	88
0.212	51
0.15	23
0.063	6

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	94
Silt/Clay	6

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

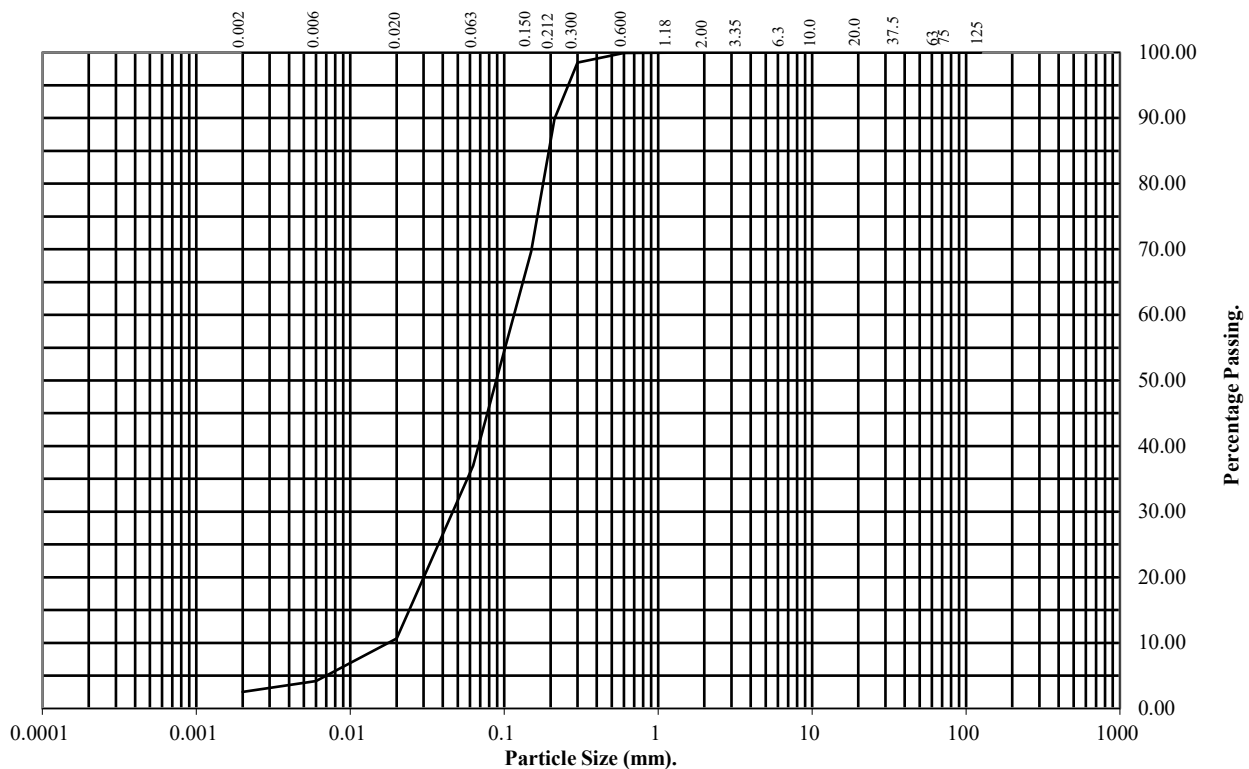
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: **BH08** Top Depth (m): **10.50**

Sample Number: **14** Base Depth(m): **10.95**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	98
0.212	90
0.15	70
0.063	37

Particle Diameter	Percentage Passing
0.02	11
0.006	4
0.002	3

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	63
Silt	34
Clay	3

Remarks:

See Summary of Soil Descriptions



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Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

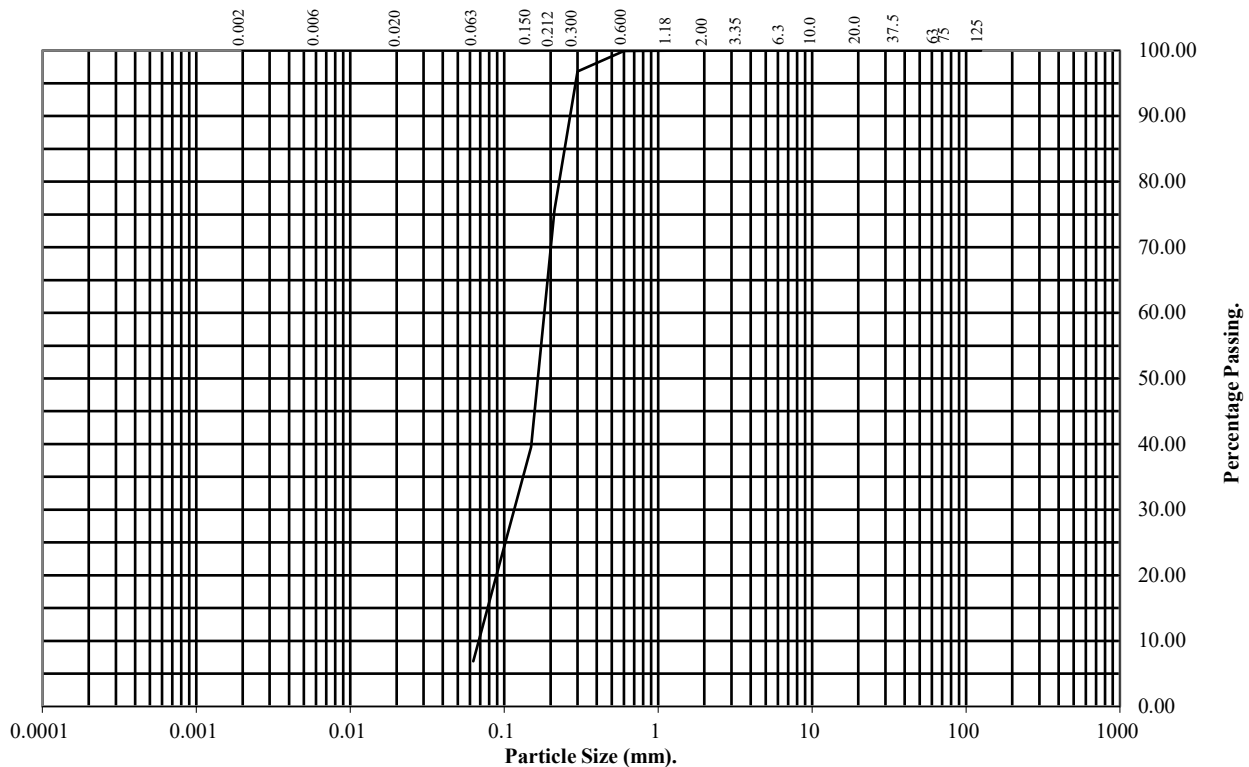
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH08 Top Depth (m): 12.00

Sample Number: 16 Base Depth(m): 12.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	97
0.212	76
0.15	40
0.063	7

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	93
Silt/Clay	7

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

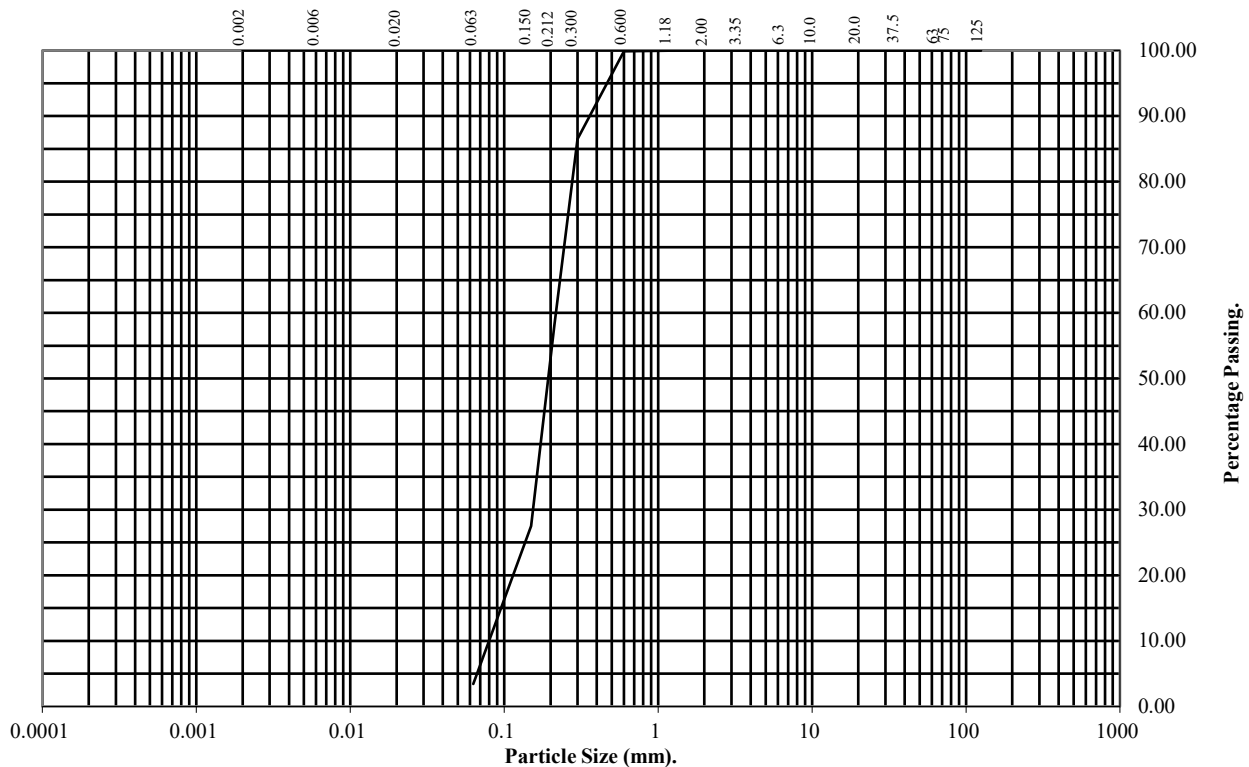
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH08 Top Depth (m): 13.50

Sample Number: 18 Base Depth(m): 13.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	87
0.212	58
0.15	27
0.063	3

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	97
Silt/Clay	3

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

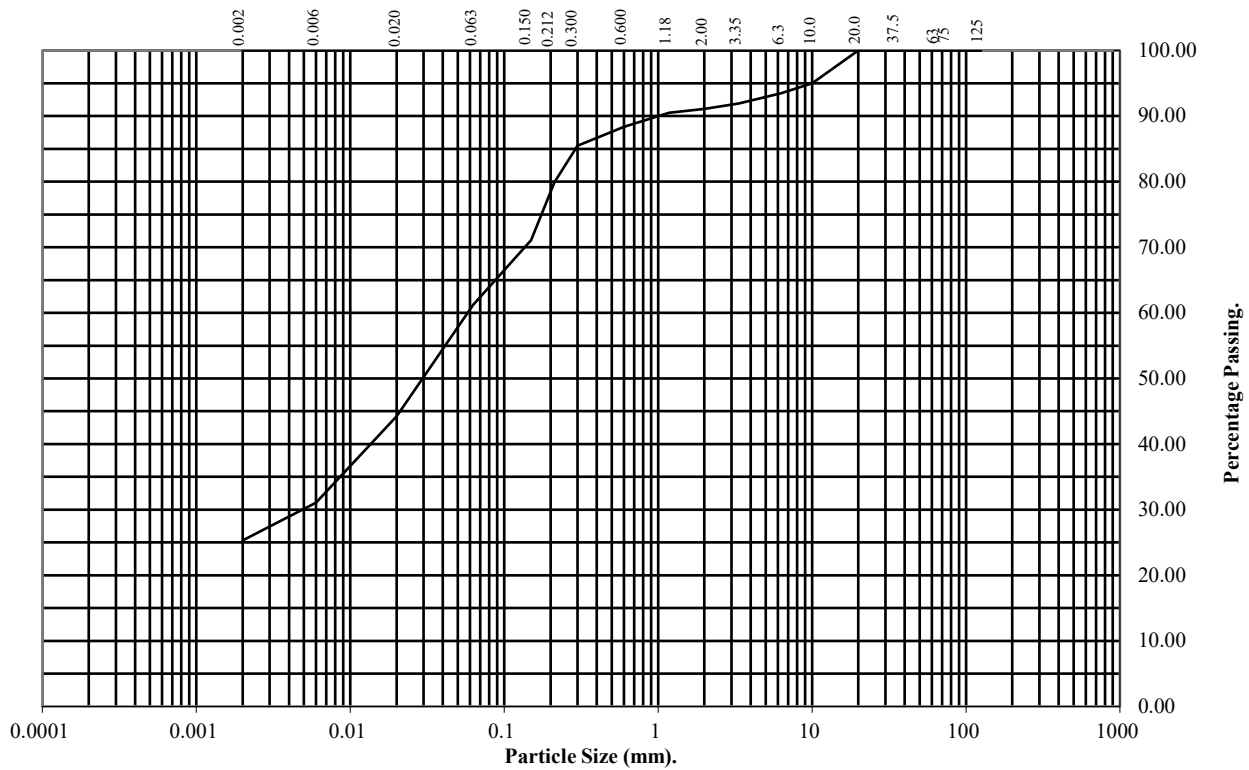
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH09 Top Depth (m): 1.20

Sample Number: 2 Base Depth(m): 1.65

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	95
6.3	93
3.35	92
2	91
1.18	90
0.6	88
0.3	85
0.212	80
0.15	71
0.063	61

Particle Diameter	Percentage Passing
0.02	44
0.006	31
0.002	25

Soil Fraction	Total Percentage
Cobbles	0
Gravel	9
Sand	30
Silt	36
Clay	25

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

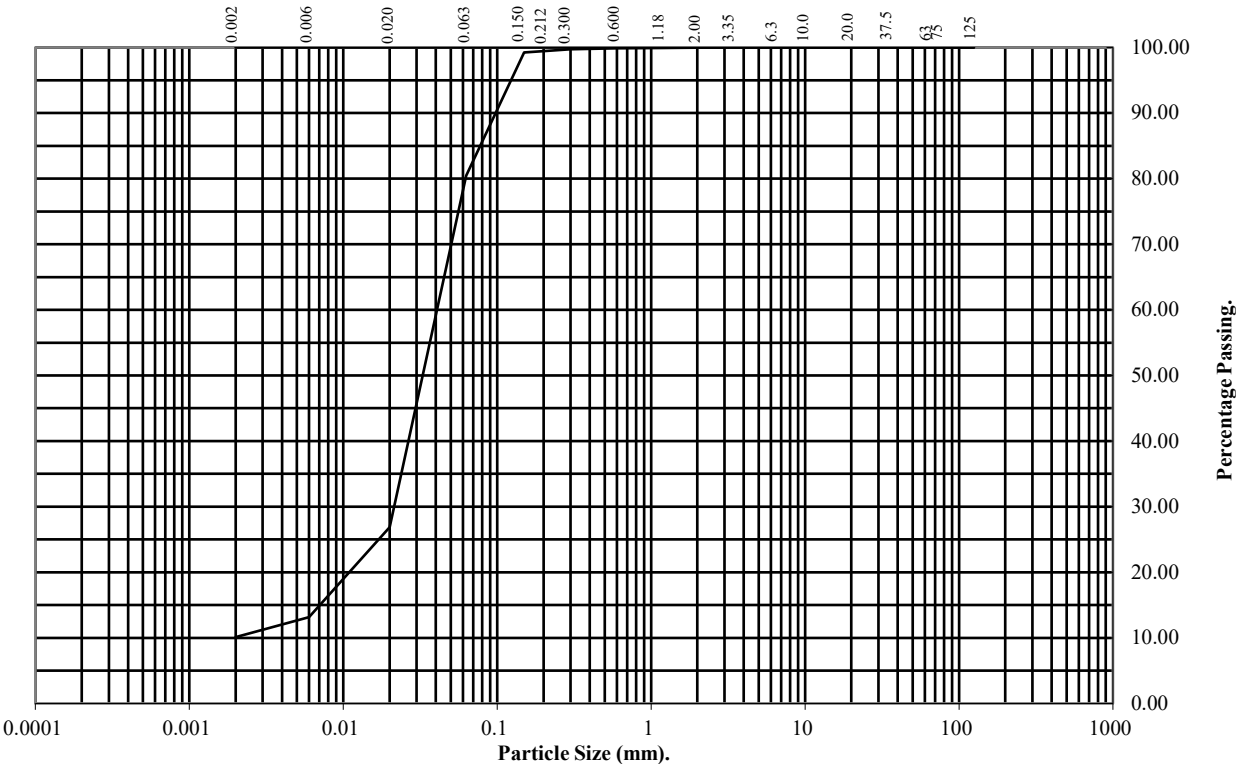
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH09 Top Depth (m): 8.00

Sample Number: 7 Base Depth(m): 8.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	100
0.15	99
0.063	80

Particle Diameter	Percentage Passing
0.02	27
0.006	13
0.002	10

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	20
Silt	70
Clay	10

Remarks:
See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

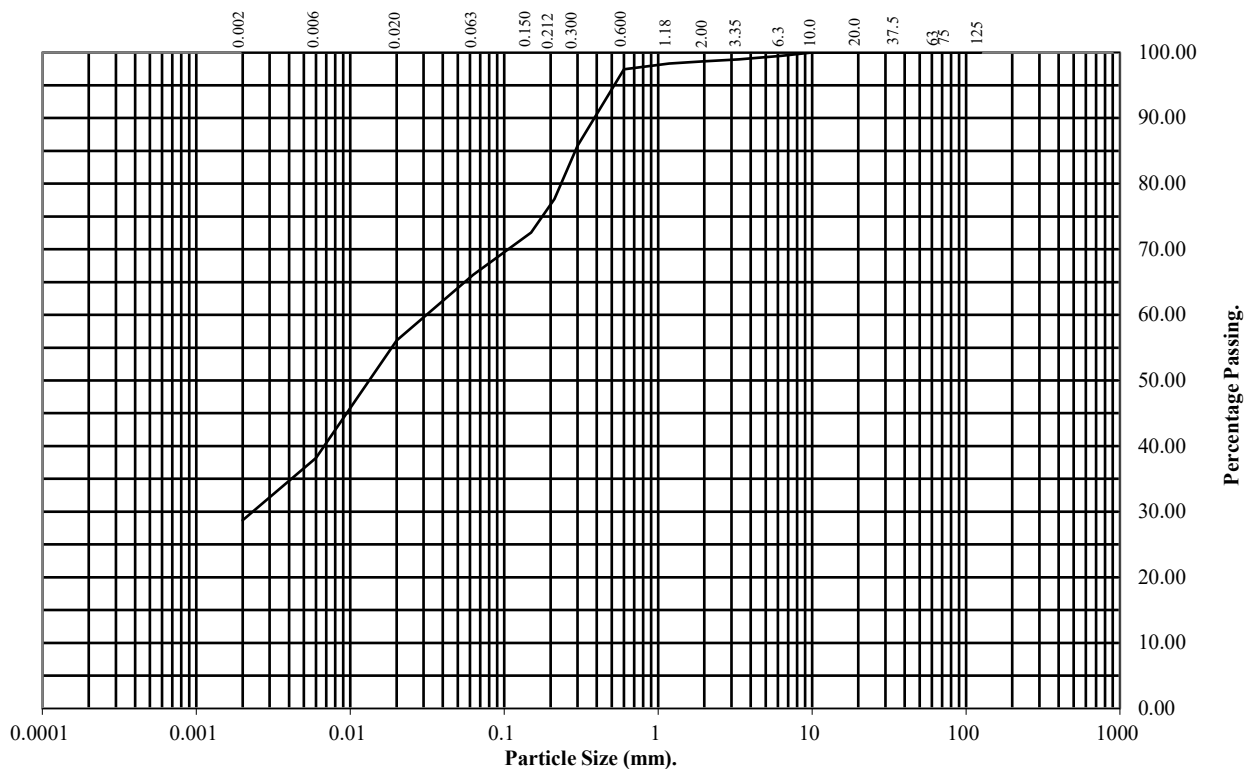
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH09 Top Depth (m): 12.50

Sample Number: 9 Base Depth(m): 12.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	99
3.35	99
2	99
1.18	98
0.6	97
0.3	86
0.212	78
0.15	73
0.063	66

Particle Diameter	Percentage Passing
0.02	56
0.006	38
0.002	29

Soil Fraction	Total Percentage
Cobbles	0
Gravel	1
Sand	33
Silt	37
Clay	29

Remarks:

See Summary of Soil Descriptions



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STV5936

PARTICLE SIZE DISTRIBUTION TEST

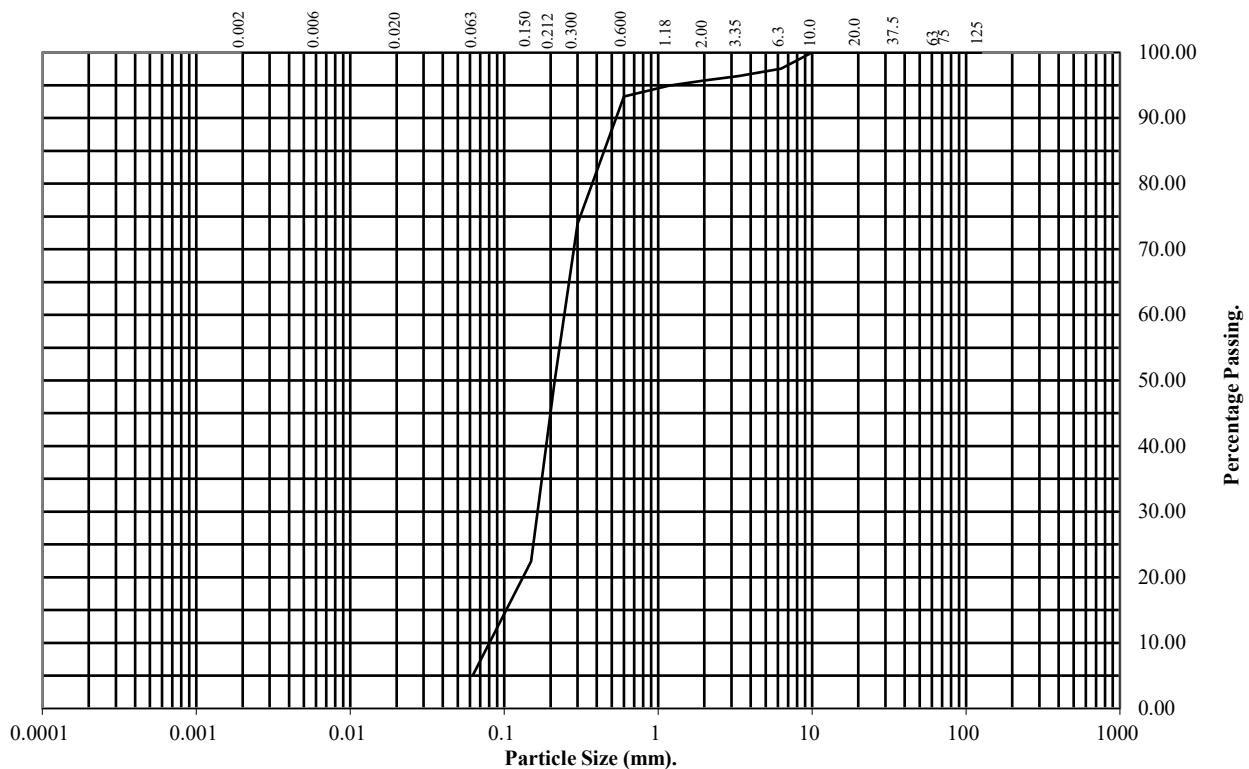
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH10 Top Depth (m): 6.00

Sample Number: 9 Base Depth(m): 6.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	98
3.35	96
2	96
1.18	95
0.6	93
0.3	74
0.212	50
0.15	22
0.063	5

Soil Fraction	Total Percentage
Cobbles	0
Gravel	4
Sand	91
Silt/Clay	5

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

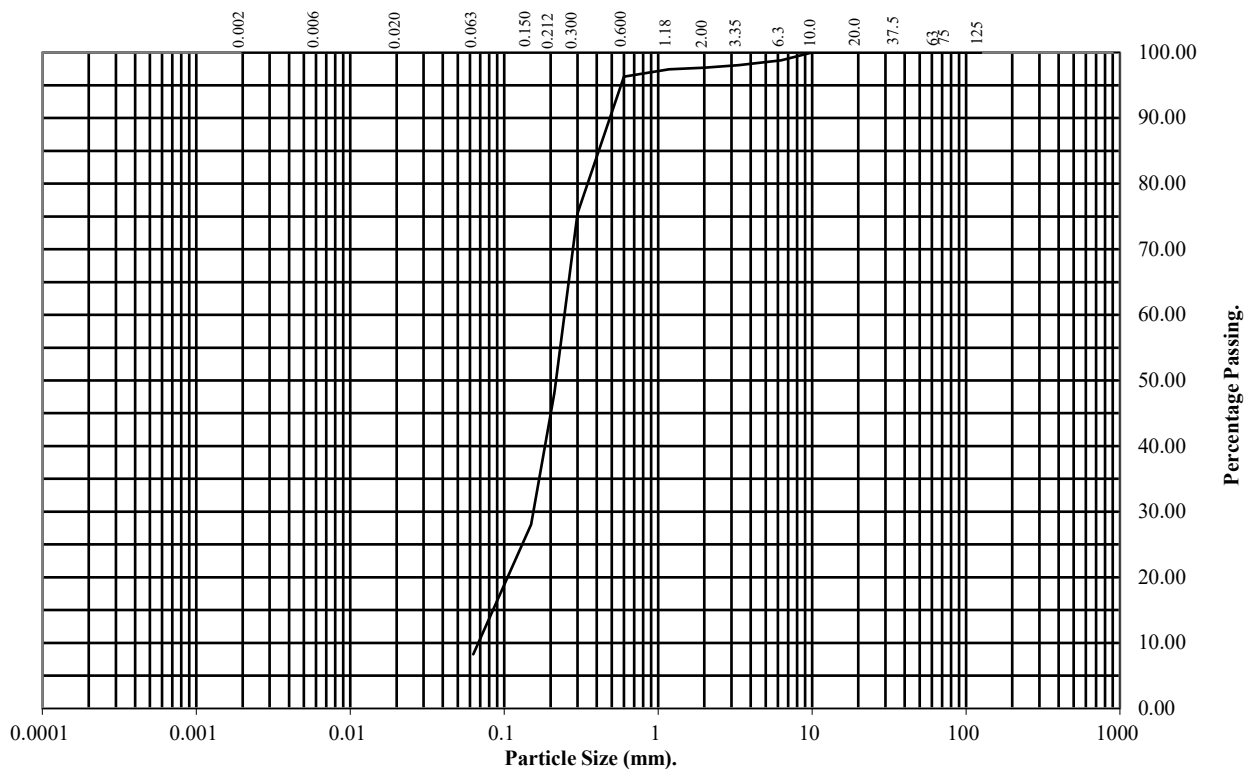
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH10 Top Depth (m): 7.50

Sample Number: 11 Base Depth(m): 7.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	99
3.35	98
2	98
1.18	97
0.6	96
0.3	75
0.212	48
0.15	28
0.063	8

Soil Fraction	Total Percentage
Cobbles	0
Gravel	2
Sand	90
Silt/Clay	8

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

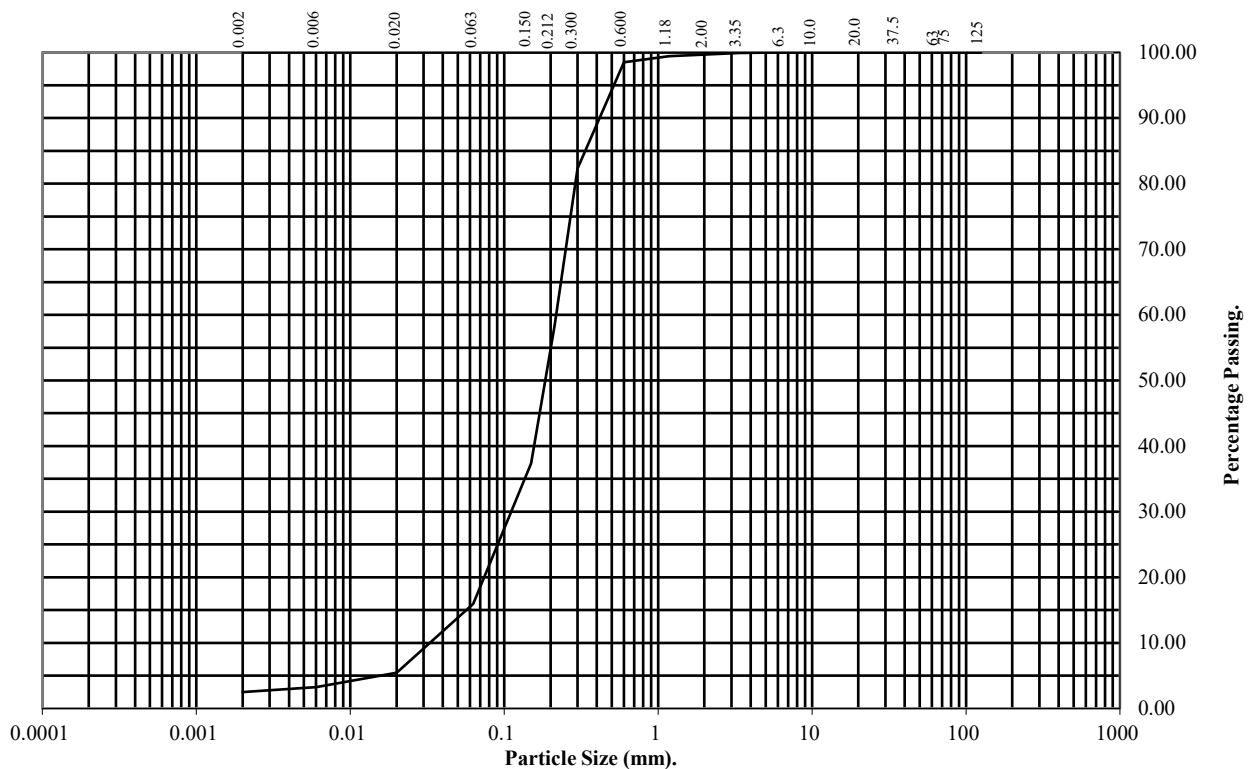
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH10 Top Depth (m): 9.00

Sample Number: 13 Base Depth(m): 9.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	99
0.6	98
0.3	82
0.212	58
0.15	37
0.063	16

Particle Diameter	Percentage Passing
0.02	5
0.006	3
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	84
Silt	14
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

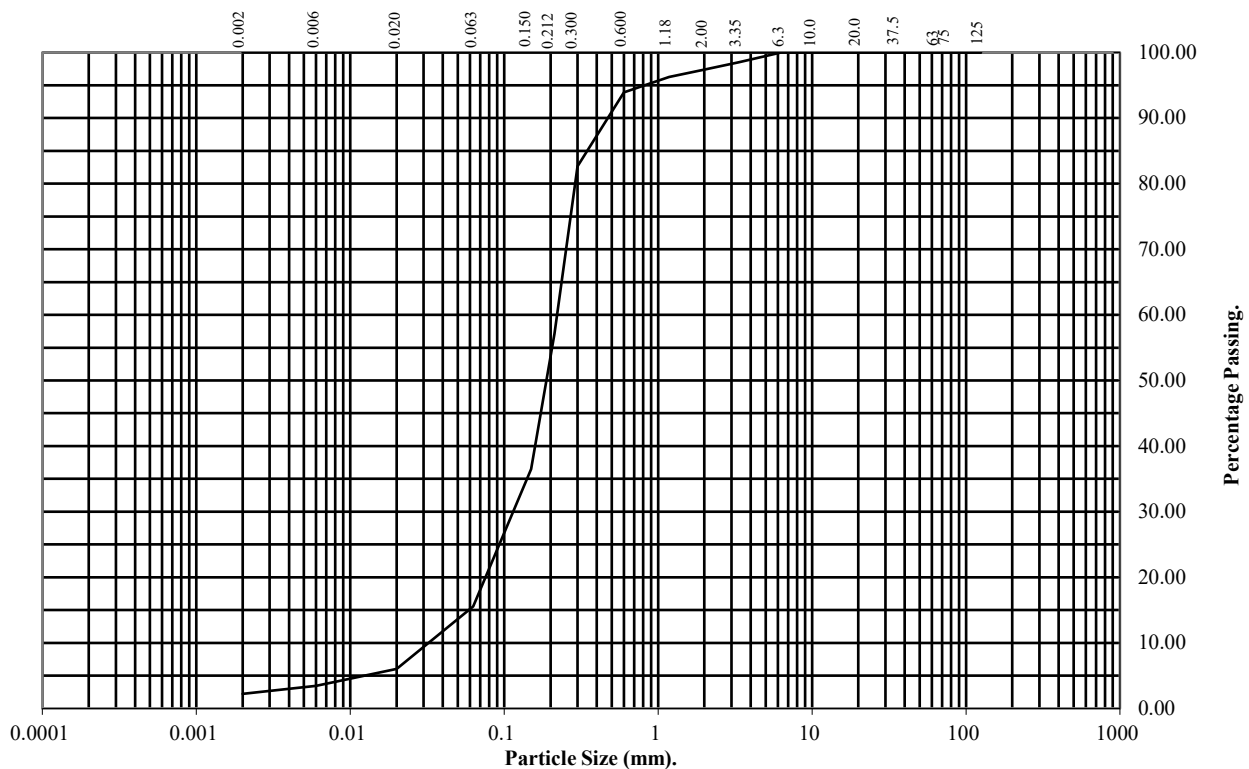
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH10 Top Depth (m): 10.50

Sample Number: 15 Base Depth(m): 10.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	99
2	97
1.18	96
0.6	94
0.3	83
0.212	57
0.15	36
0.063	16

Particle Diameter	Percentage Passing
0.02	6
0.006	3
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	3
Sand	81
Silt	14
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

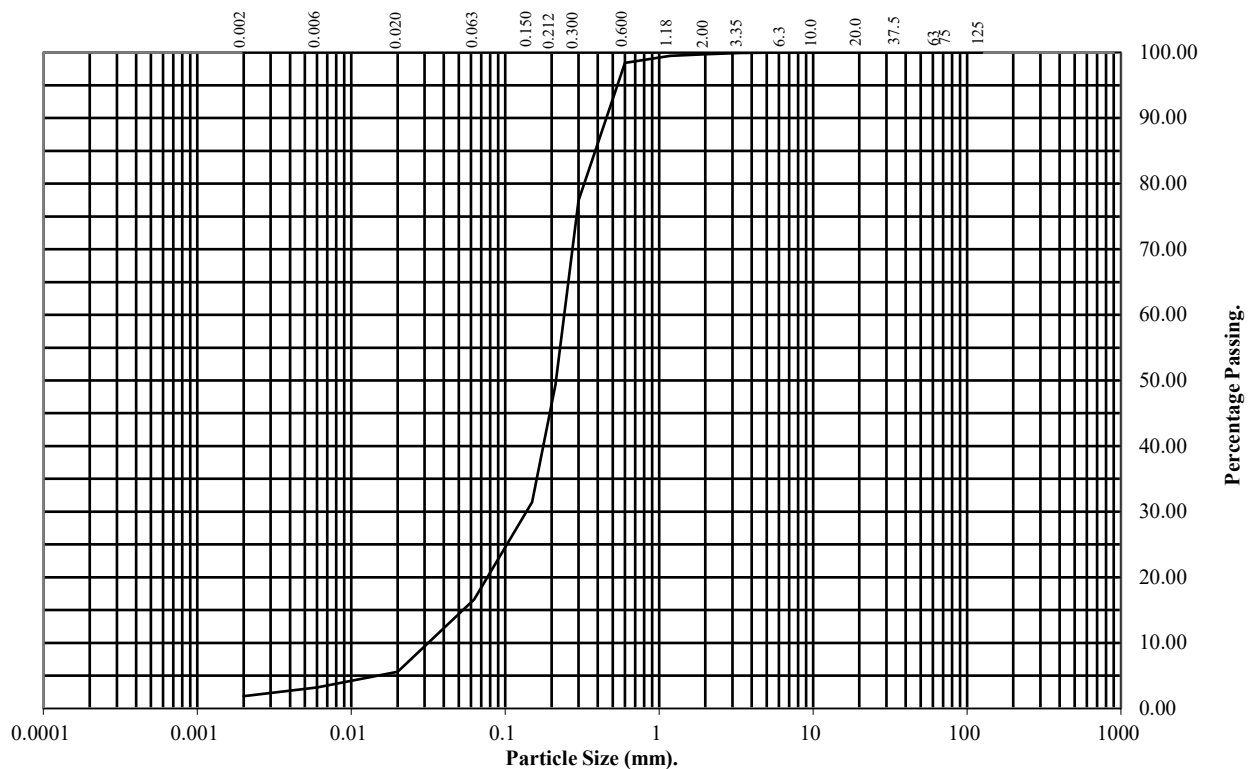
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH10 Top Depth (m): 12.00

Sample Number: 17 Base Depth(m): 12.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	99
0.6	98
0.3	77
0.212	49
0.15	31
0.063	17

Particle Diameter	Percentage Passing
0.02	6
0.006	3
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	83
Silt	15
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

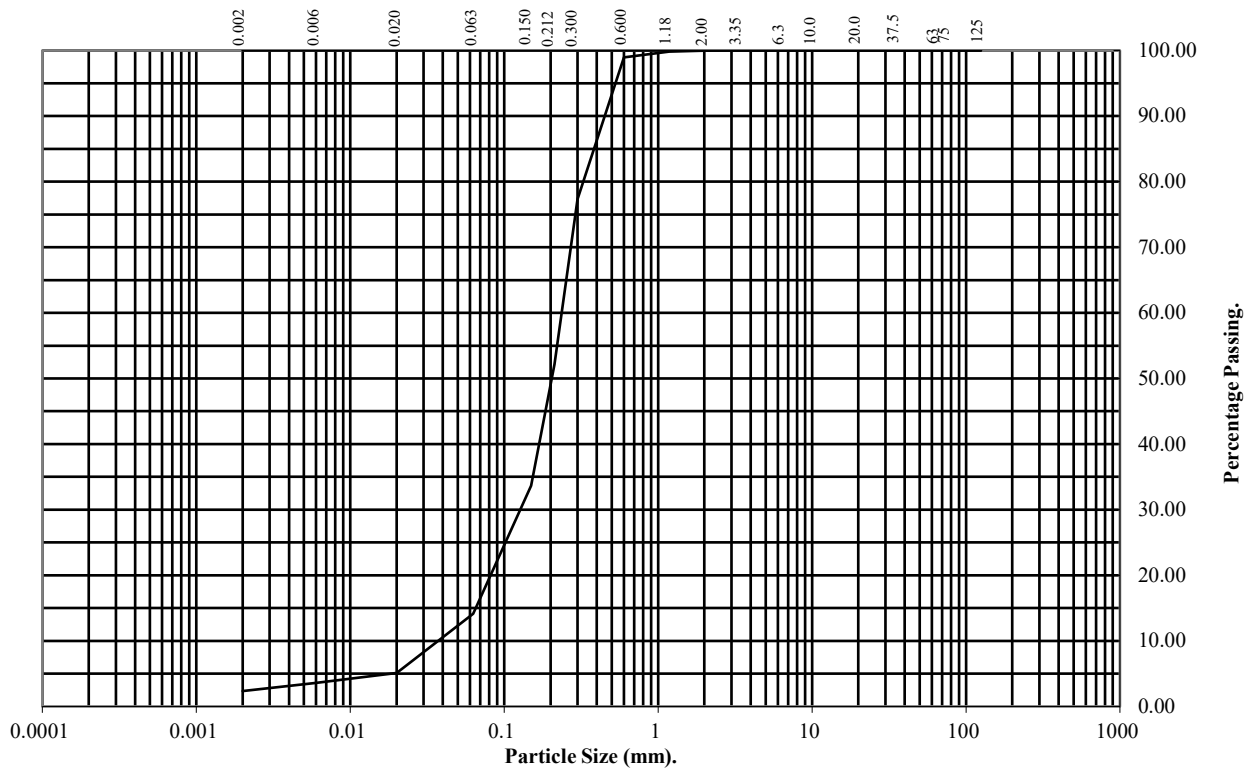
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH10 Top Depth (m): 13.50

Sample Number: 19 Base Depth(m): 13.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	77
0.212	52
0.15	34
0.063	14

Particle Diameter	Percentage Passing
0.02	5
0.006	4
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	86
Silt	12
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

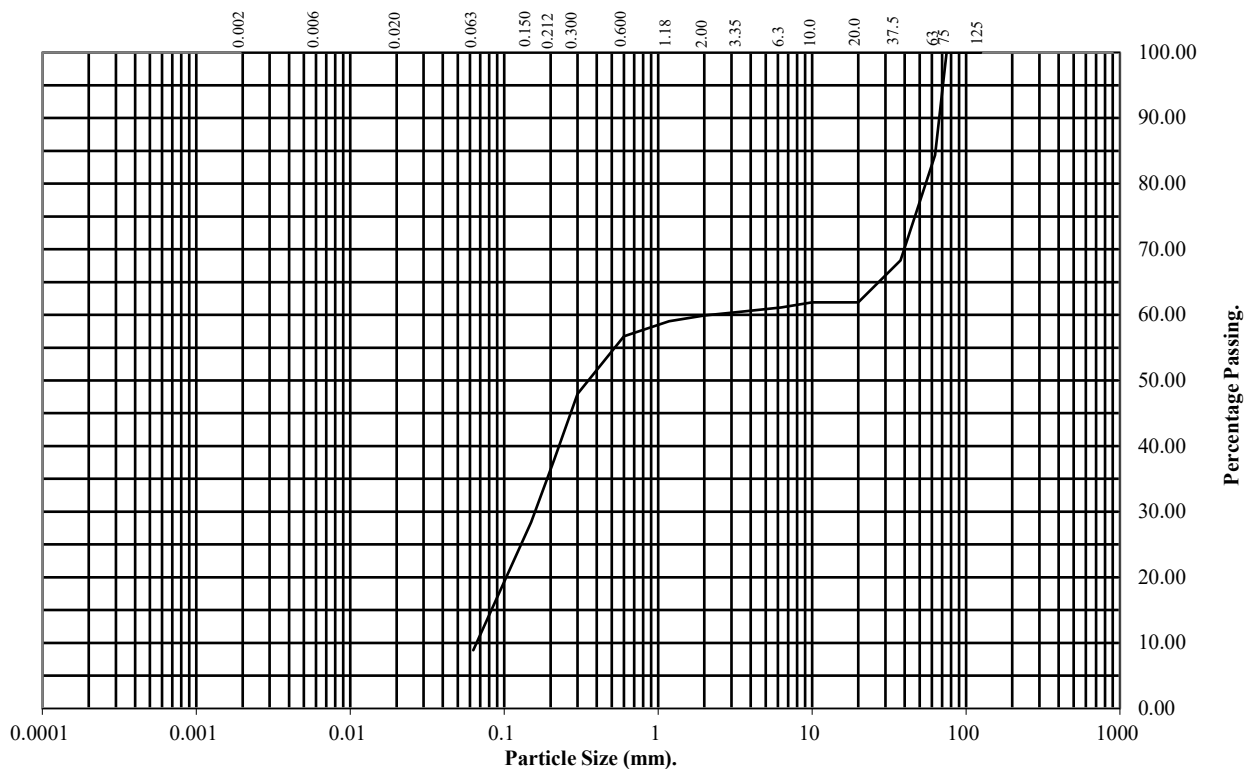
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH11 Top Depth (m): 0.40

Sample Number: 2 Base Depth(m): 1.20

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	84
37.5	68
20	62
10	62
6.3	61
3.35	60
2	60
1.18	59
0.6	57
0.3	48
0.212	38
0.15	28
0.063	9

Soil Fraction	Total Percentage
Cobbles	16
Gravel	24
Sand	51
Silt/Clay	9

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

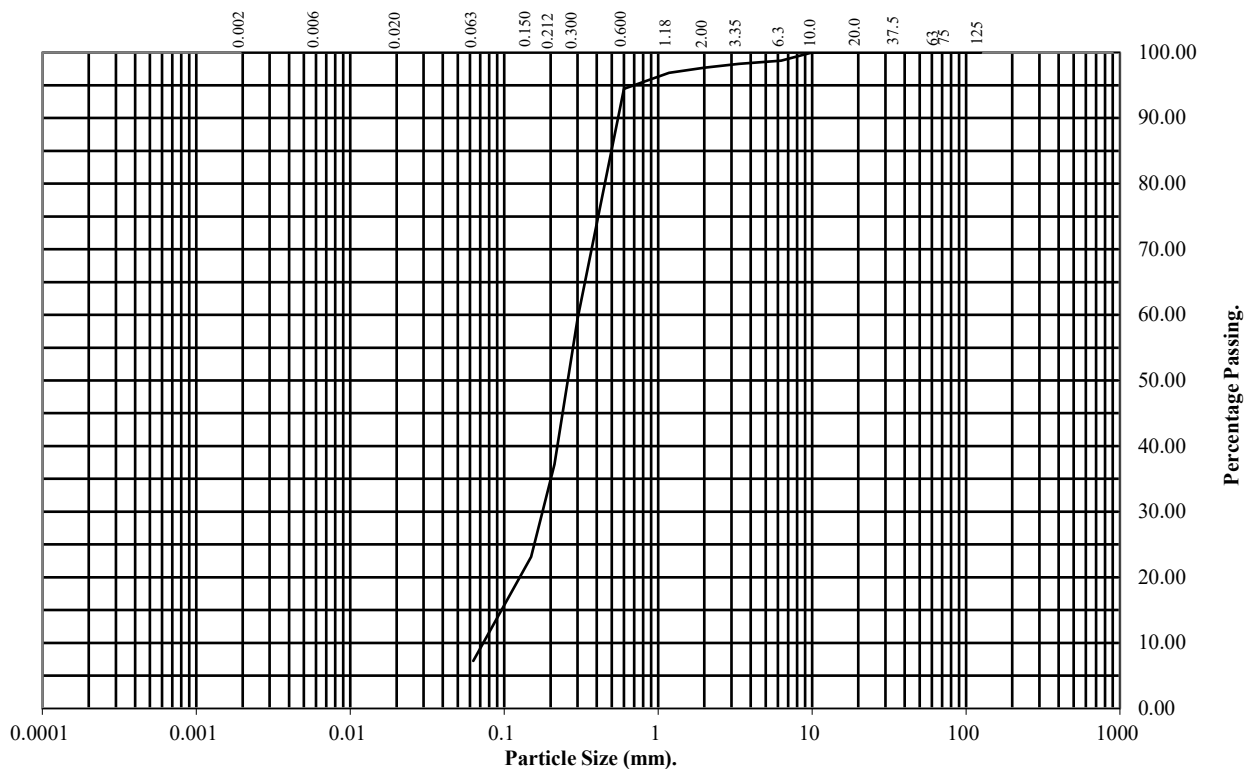
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH11 Top Depth (m): 3.00

Sample Number: 7 Base Depth(m): 3.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	99
3.35	98
2	98
1.18	97
0.6	94
0.3	59
0.212	37
0.15	23
0.063	7

Soil Fraction	Total Percentage
Cobbles	0
Gravel	2
Sand	91
Silt/Clay	7

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

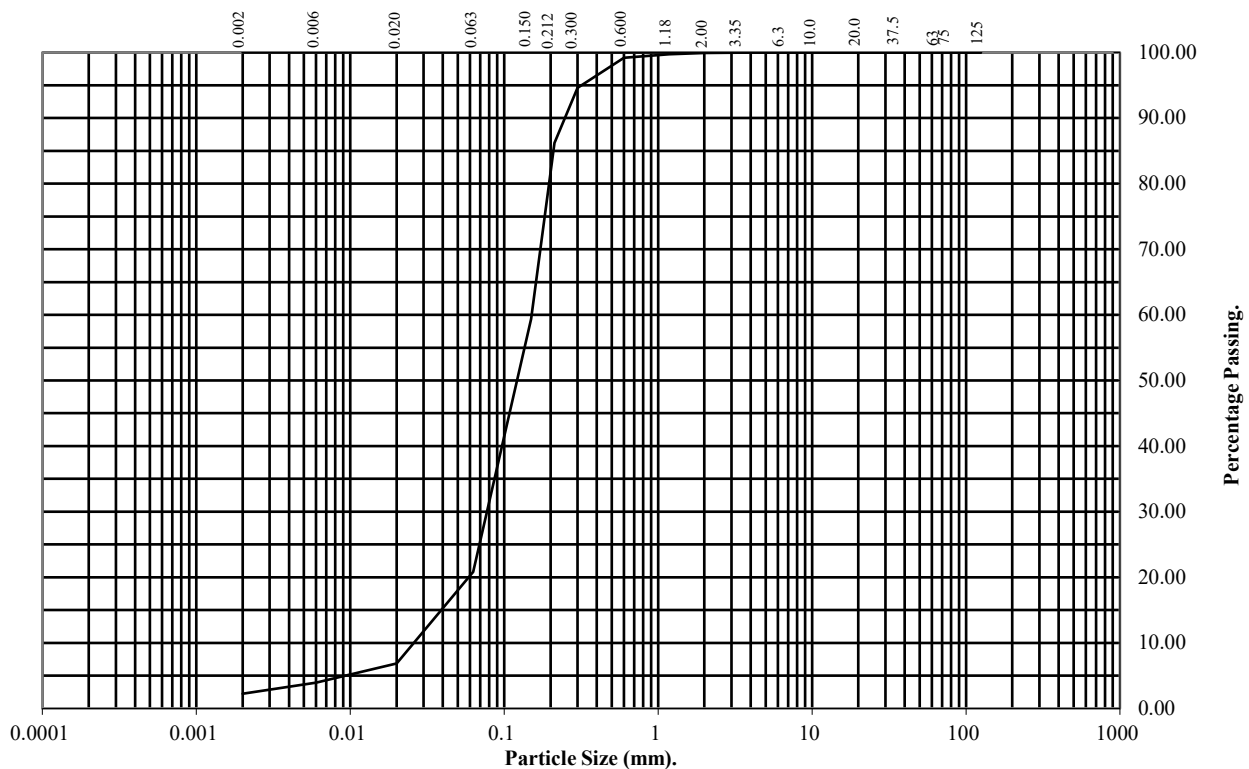
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH11 Top Depth (m): 4.50

Sample Number: 10 Base Depth(m): 4.95

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	95
0.212	86
0.15	59
0.063	21

Particle Diameter	Percentage Passing
0.02	7
0.006	4
0.002	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	79
Silt	19
Clay	2

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

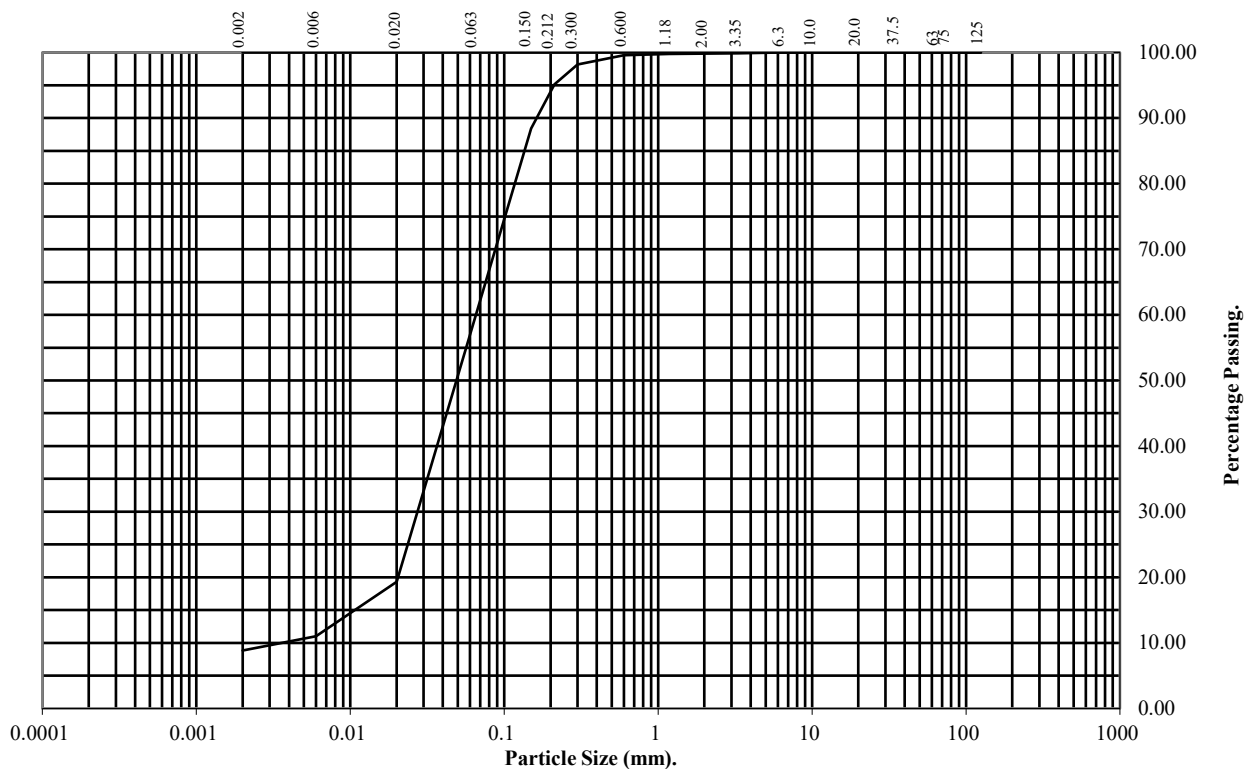
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: BH11 Top Depth (m): 6.00

Sample Number: 11 Base Depth(m): 6.45

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	98
0.212	95
0.15	88
0.063	59

Particle Diameter	Percentage Passing
0.02	19
0.006	11
0.002	9

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	41
Silt	50
Clay	9

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

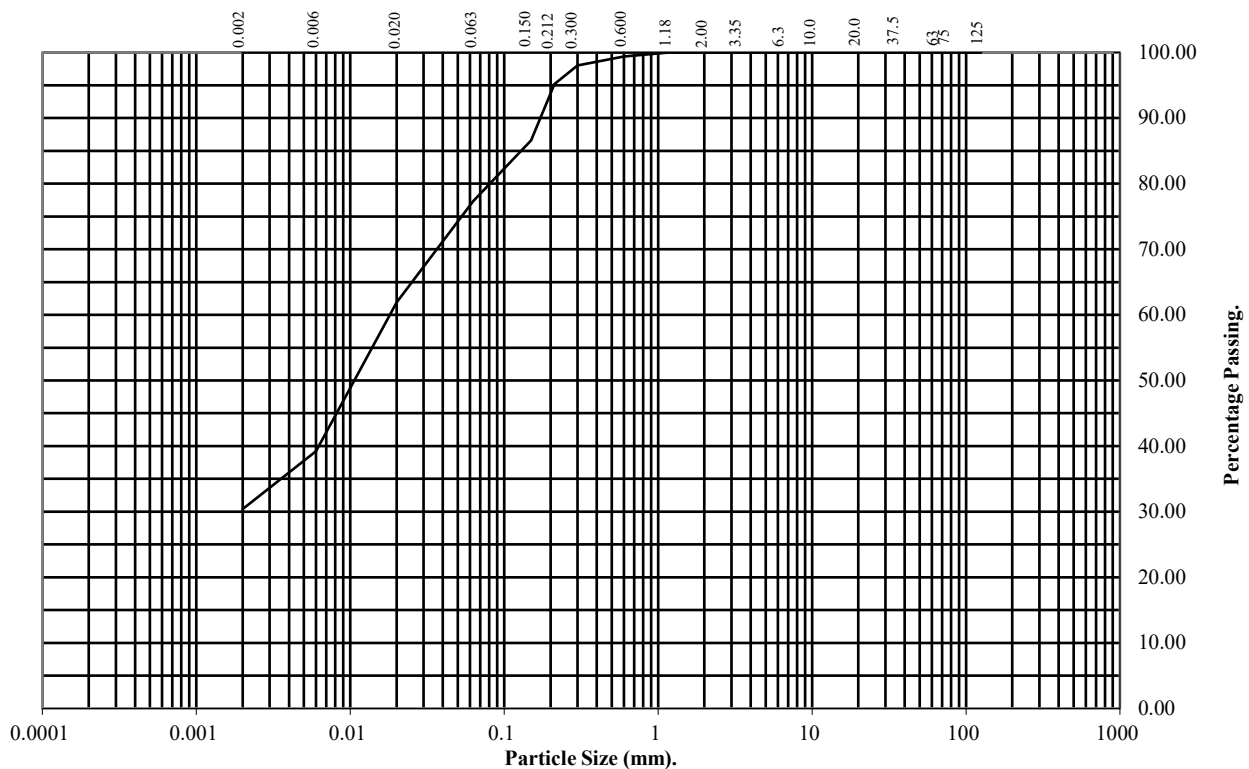
Hole Number: BH11

Top Depth (m): 8.60

Sample Number: 17

Base Depth(m):

Sample Type: D



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	98
0.212	95
0.15	87
0.063	77

Particle Diameter	Percentage Passing
0.02	62
0.006	39
0.002	30

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	23
Silt	47
Clay	30

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

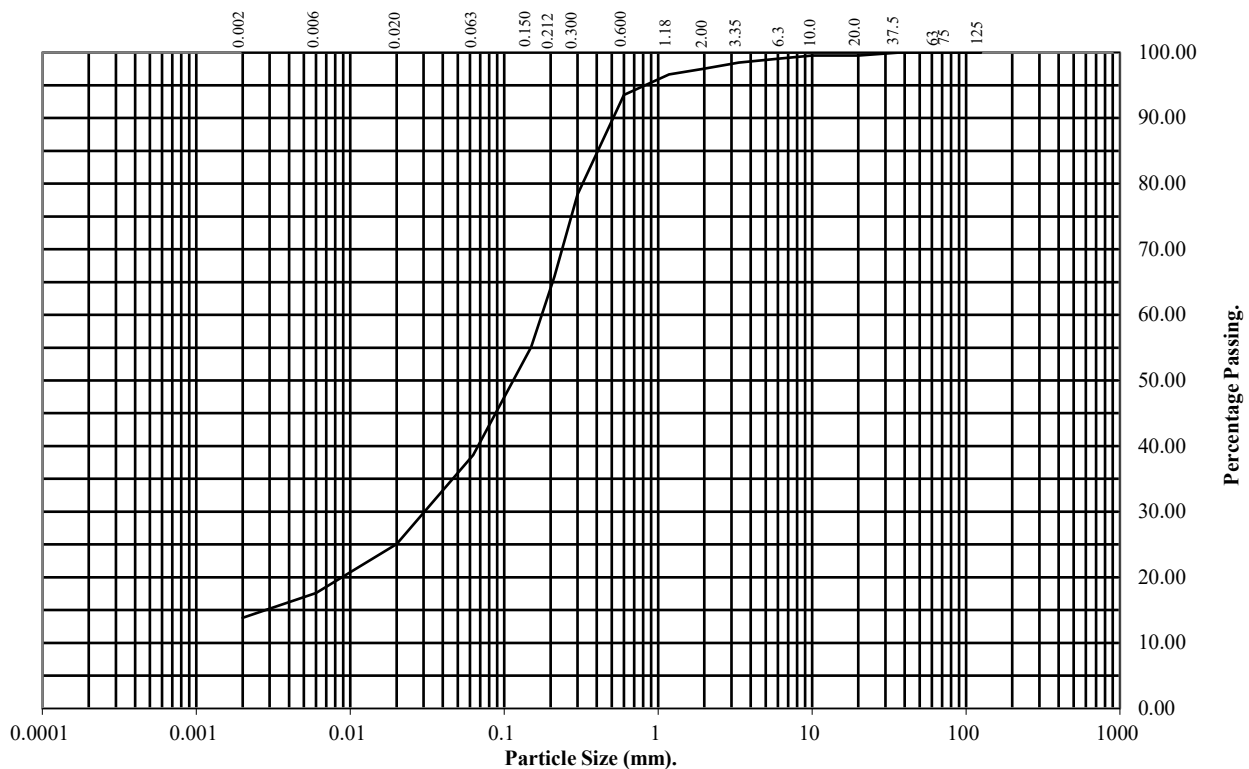
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: TP16 Top Depth (m): 0.60

Sample Number: 2 Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	99
3.35	98
2	98
1.18	97
0.6	94
0.3	78
0.212	66
0.15	55
0.063	39

Particle Diameter	Percentage Passing
0.02	25
0.006	18
0.002	14

Soil Fraction	Total Percentage
Cobbles	0
Gravel	2
Sand	59
Silt	25
Clay	14

Remarks:

See Summary of Soil Descriptions



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Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

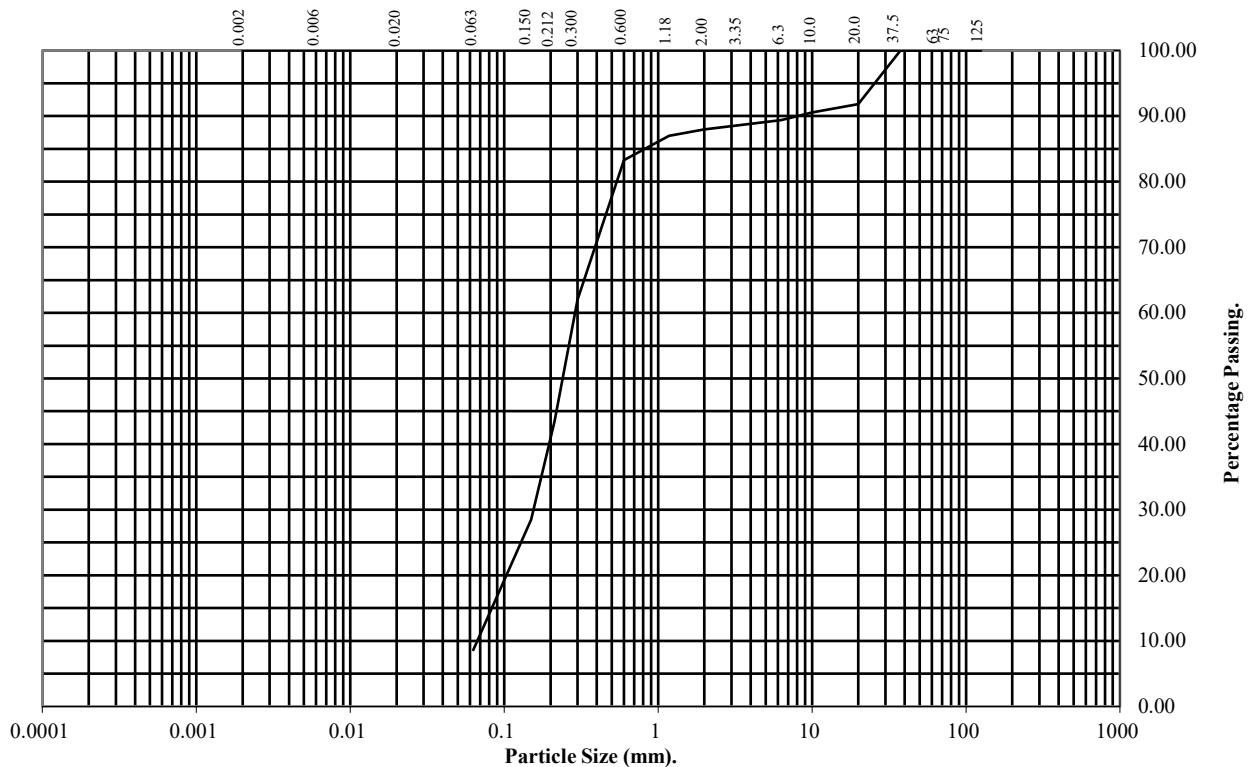
Hole Number: TP16

Top Depth (m): 1.80

Sample Number: 4

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	92
10	91
6.3	89
3.35	89
2	88
1.18	87
0.6	83
0.3	62
0.212	43
0.15	28
0.063	9

Soil Fraction	Total Percentage
Cobbles	0
Gravel	12
Sand	79
Silt/Clay	9

Remarks:

See Summary of Soil Descriptions



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

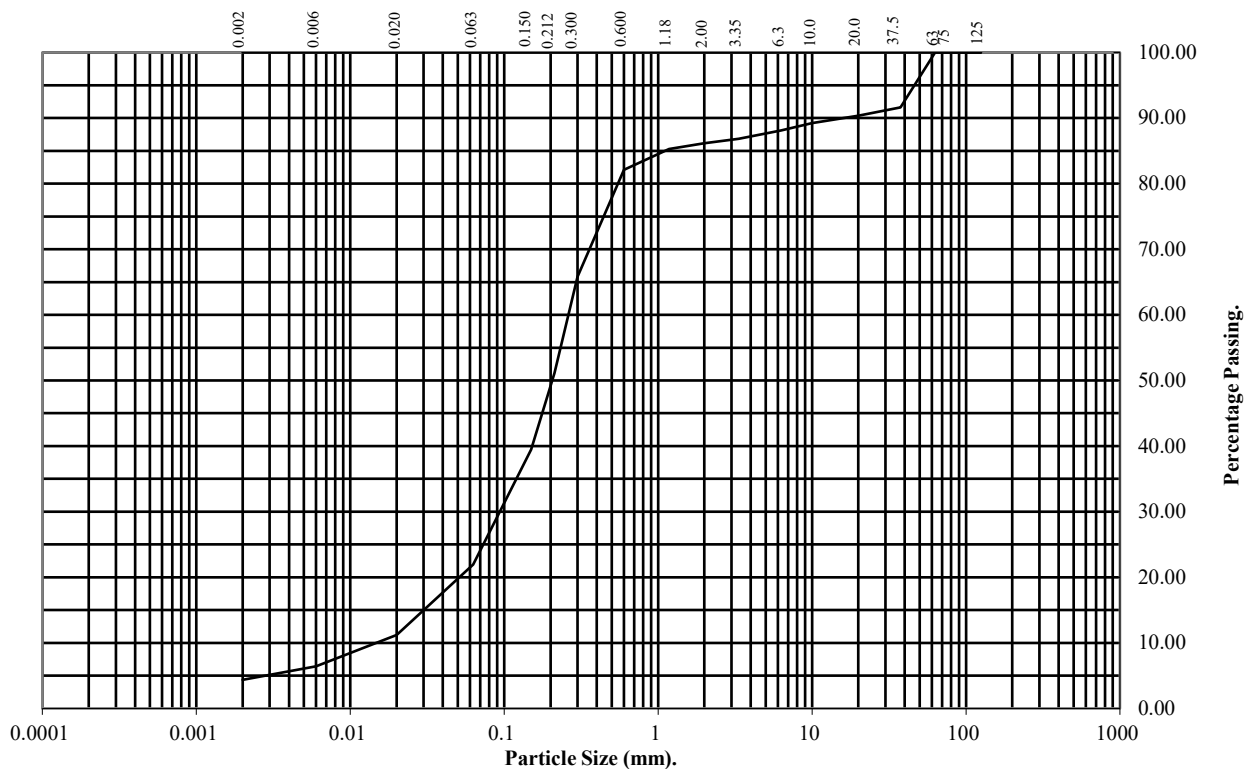
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: TP16 Top Depth (m): 3.20

Sample Number: 5 Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	92
20	90
10	89
6.3	88
3.35	87
2	86
1.18	85
0.6	82
0.3	66
0.212	51
0.15	39
0.063	22

Particle Diameter	Percentage Passing
0.02	11
0.006	6
0.002	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	14
Sand	64
Silt	18
Clay	4

Remarks:

See Summary of Soil Descriptions



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

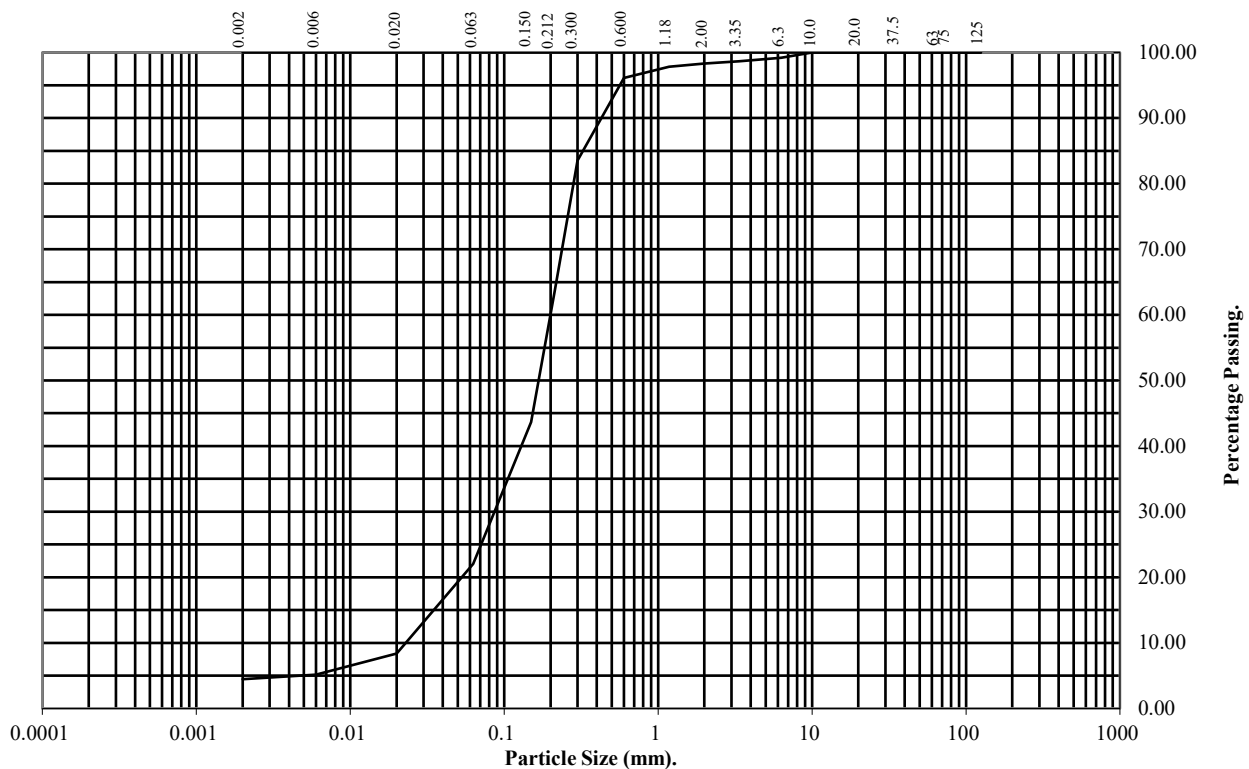
BS1377 : Part 2 : 1990

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Hole Number: TP16 Top Depth (m): 4.10

Sample Number: 6 Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	99
3.35	99
2	98
1.18	98
0.6	96
0.3	84
0.212	63
0.15	44
0.063	22

Particle Diameter	Percentage Passing
0.02	8
0.006	5
0.002	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	2
Sand	76
Silt	18
Clay	4

Remarks:

See Summary of Soil Descriptions



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

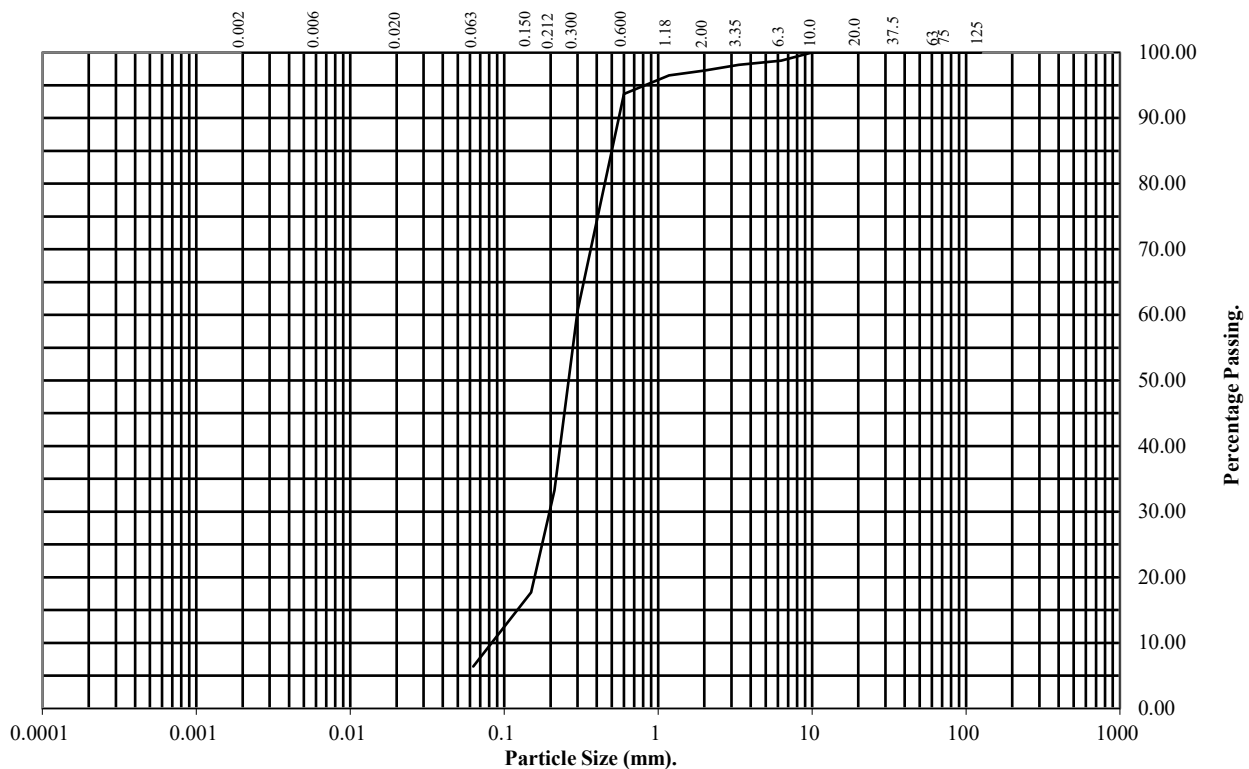
Hole Number: TP22

Top Depth (m): 0.80

Sample Number: 2

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	99
3.35	98
2	97
1.18	97
0.6	94
0.3	61
0.212	33
0.15	18
0.063	6

Soil Fraction	Total Percentage
Cobbles	0
Gravel	3
Sand	91
Silt/Clay	6

Remarks:

See Summary of Soil Descriptions



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

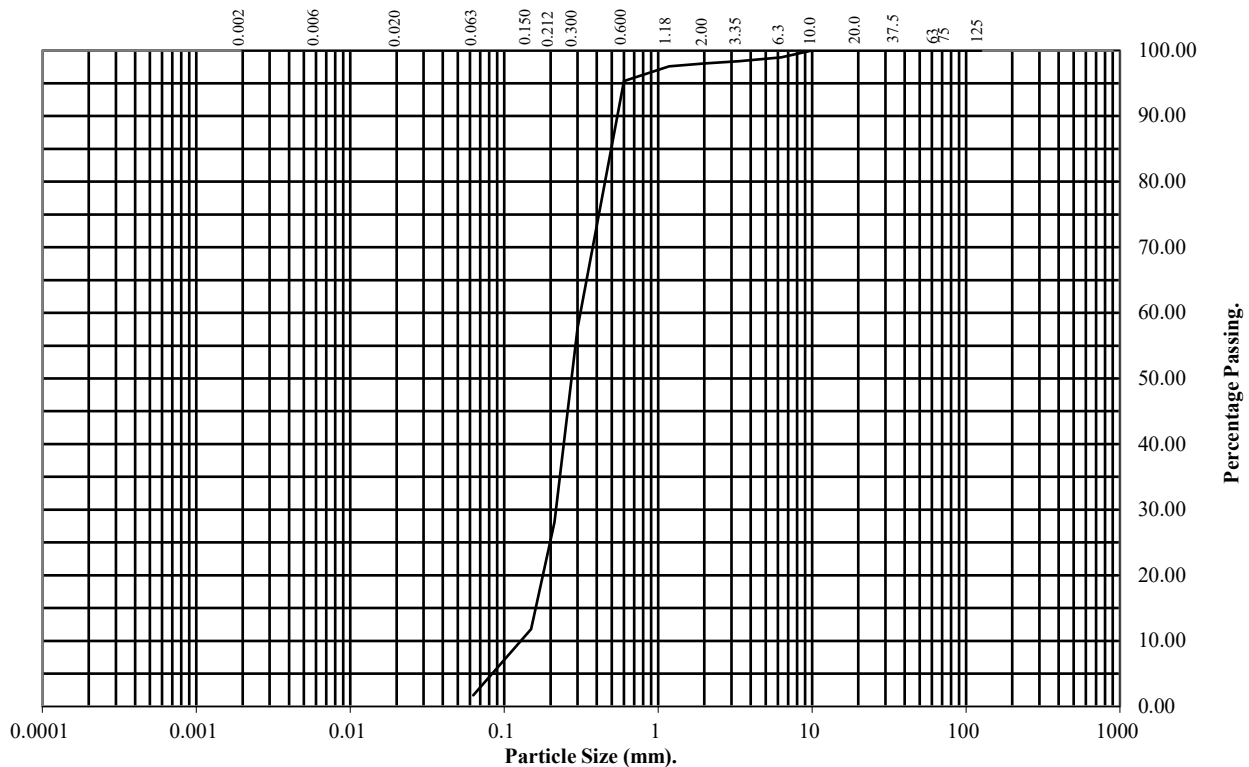
Hole Number: TP22

Top Depth (m): 1.60

Sample Number: 3

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	99
3.35	98
2	98
1.18	98
0.6	95
0.3	58
0.212	28
0.15	12
0.063	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	2
Sand	96
Silt/Clay	2

Remarks:

See Summary of Soil Descriptions



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

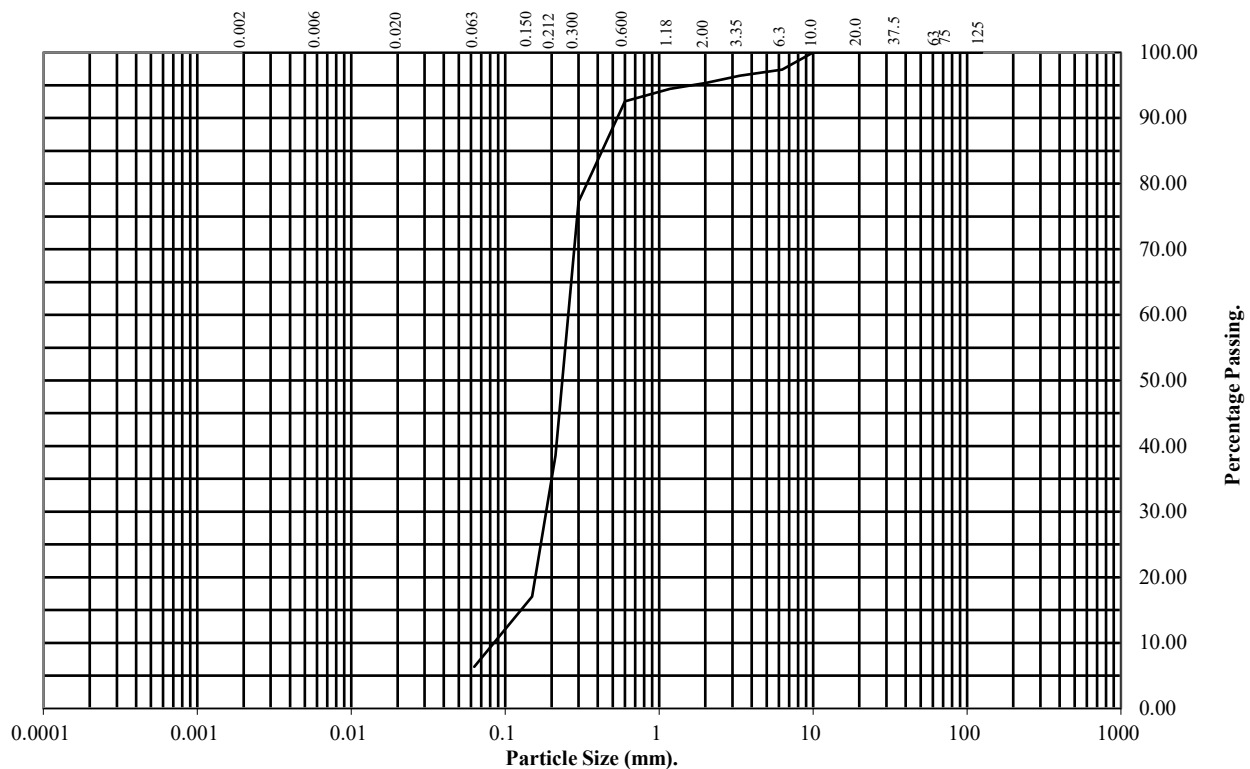
Hole Number: TP22

Top Depth (m): 3.60

Sample Number: 5

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	97
3.35	96
2	95
1.18	94
0.6	93
0.3	77
0.212	39
0.15	17
0.063	6

Soil Fraction	Total Percentage
Cobbles	0
Gravel	5
Sand	89
Silt/Clay	6

Remarks:

See Summary of Soil Descriptions



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

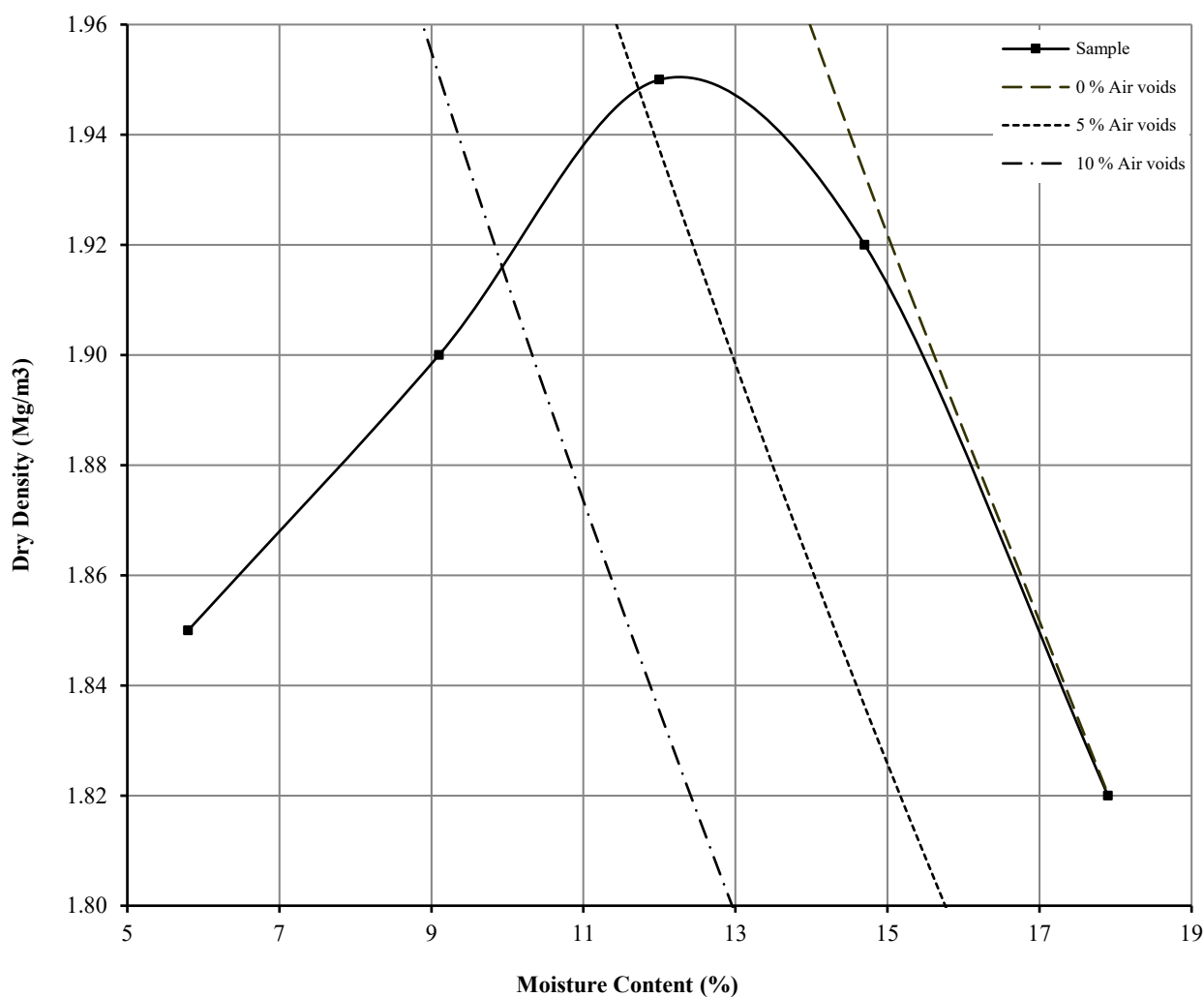
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH01 Top Depth (m) : 3.00

Sample Number: 12 Base Depth (m) : 3.45

Sample Type: B



Initial Moisture Content:	15	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.7	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.95		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	12			
Remarks See summary of soil descriptions				



Cowm Top

Contract
PSL24/5600
Client Ref
STV5936

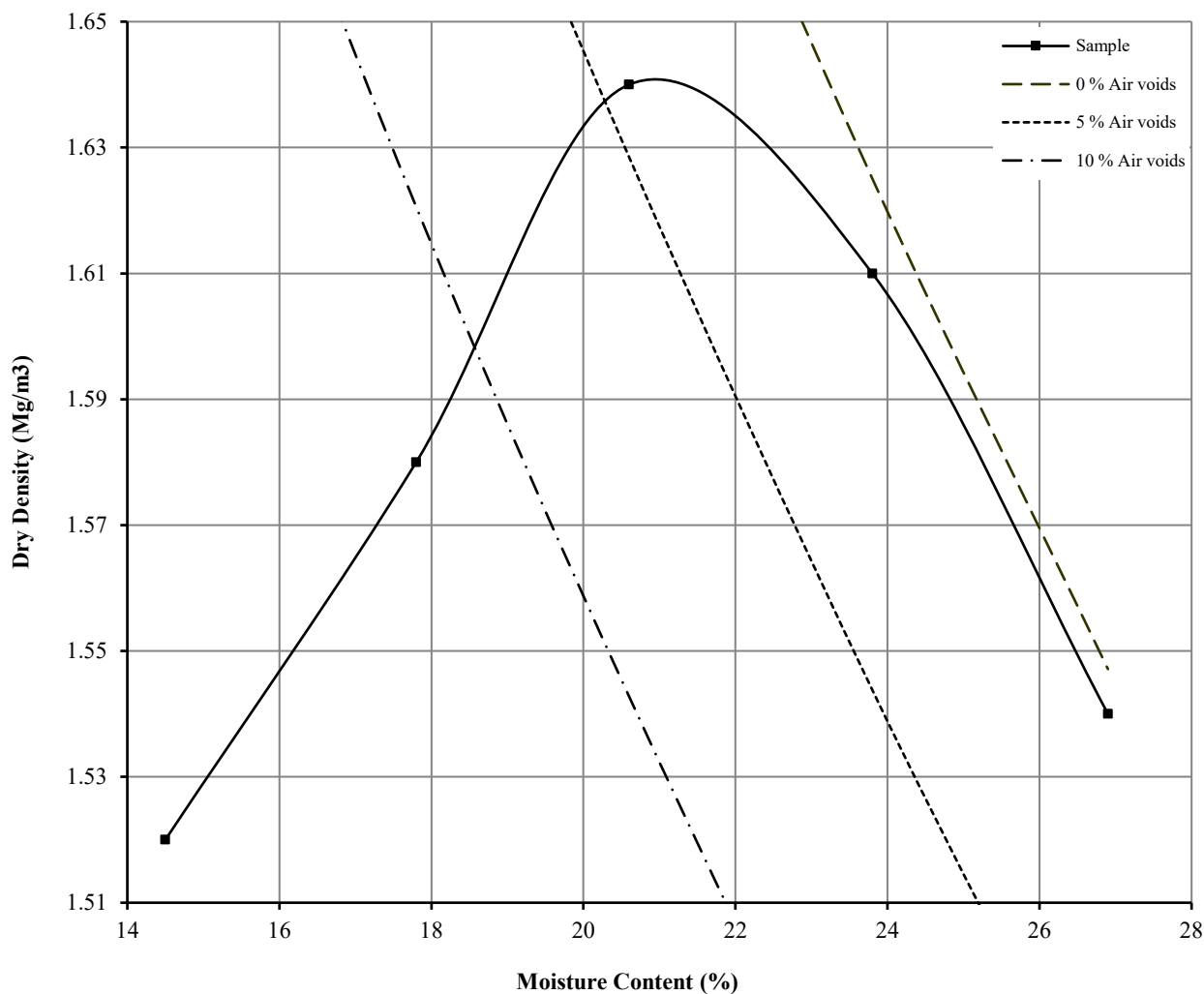
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH01 Top Depth (m) : 10.00

Sample Number: 20 Base Depth (m) : 10.45

Sample Type: B



Initial Moisture Content:	27	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.65	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.64		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	21			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

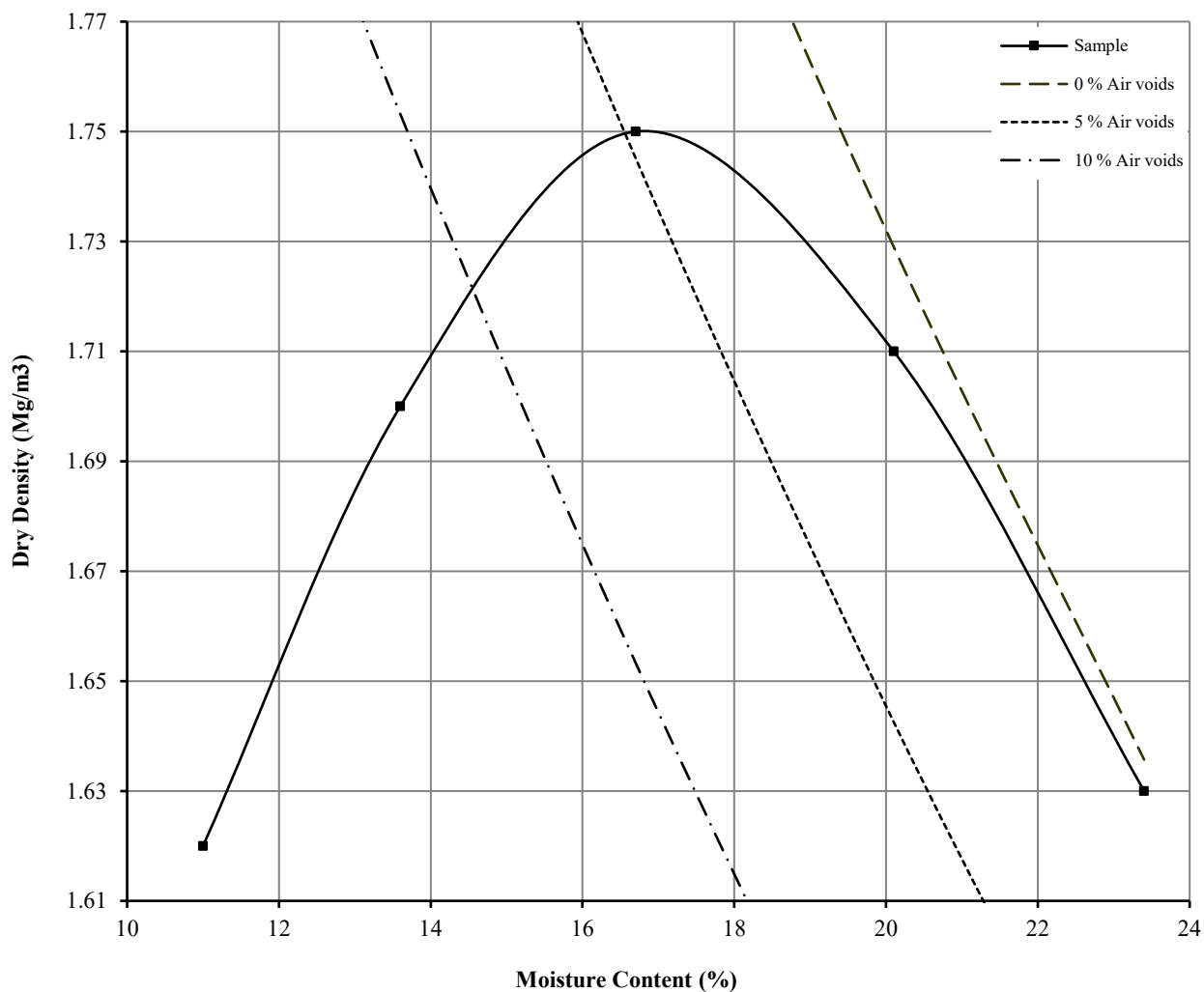
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH02 Top Depth (m) : 2.00

Sample Number: 4 Base Depth (m) : 2.50

Sample Type: B



Initial Moisture Content:	26	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.65	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.75		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	17			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

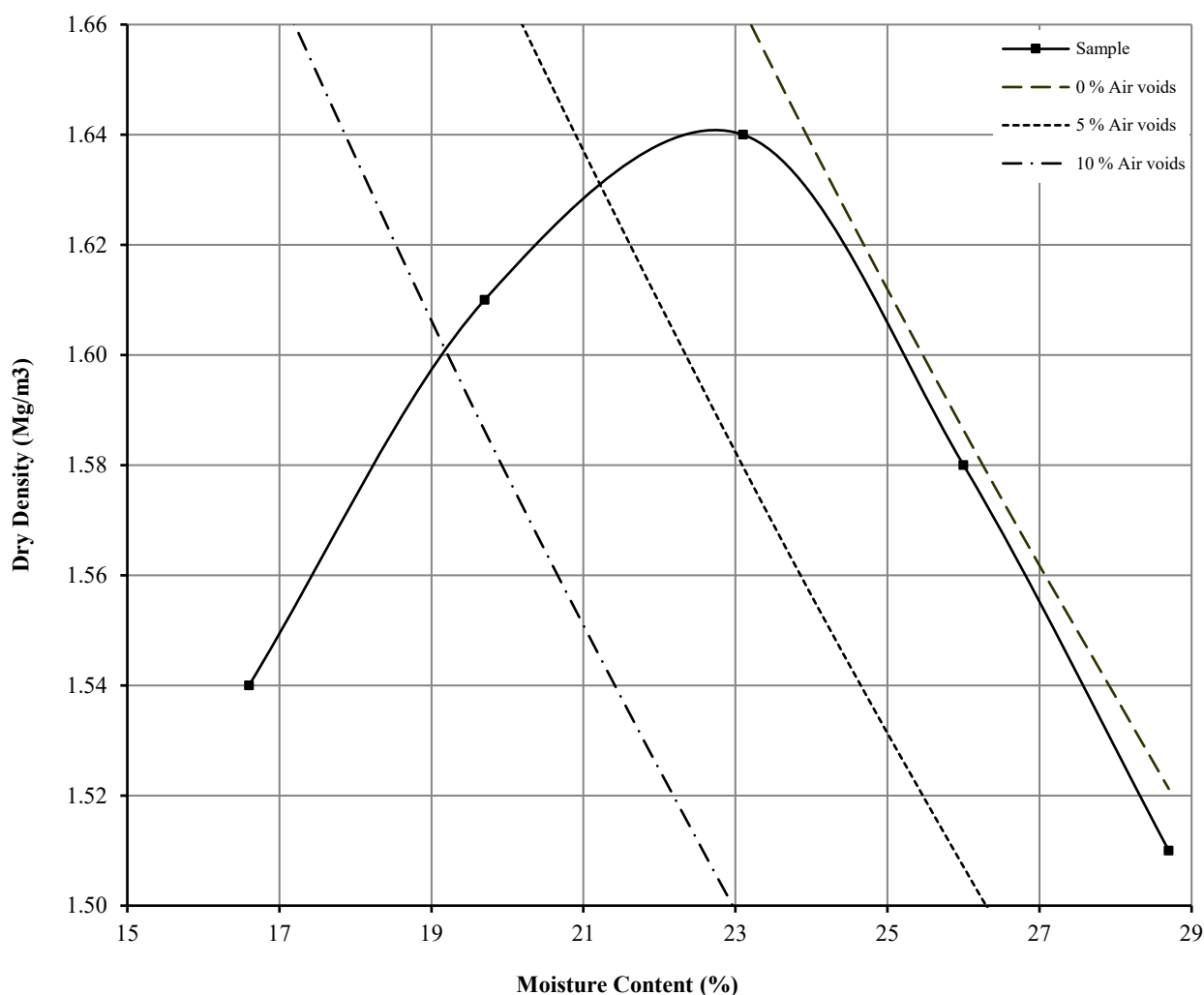
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH02 Top Depth (m) : 11.00

Sample Number: 17 Base Depth (m) : 11.50

Sample Type: B



Initial Moisture Content:	26	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.7	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.64		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	23			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

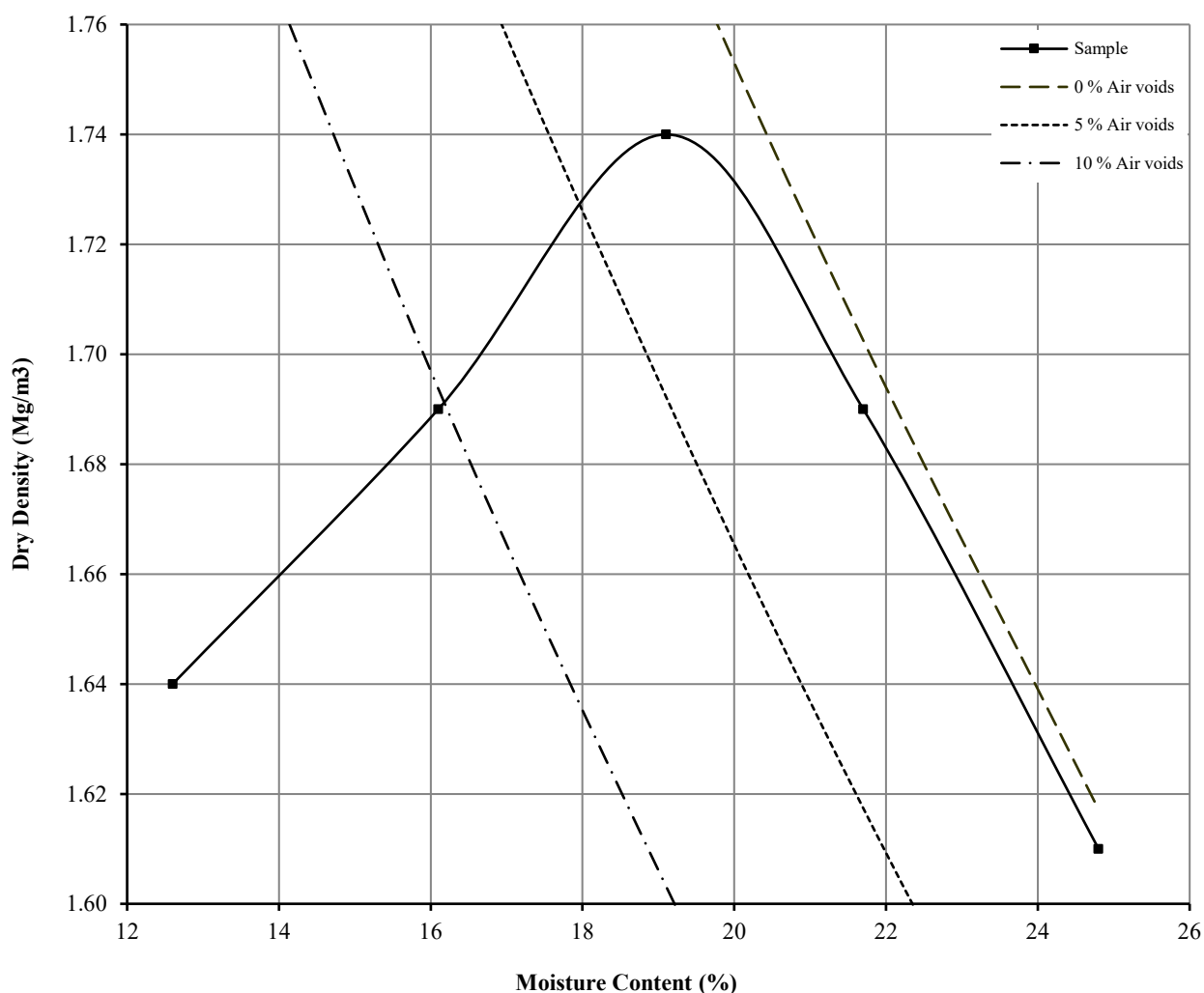
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH03 Top Depth (m) : 3.00

Sample Number: 9 Base Depth (m) : 3.45

Sample Type: B



Initial Moisture Content:	25	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.7	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.74		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	19			
Remarks See summary of soil descriptions				

 4043	 A PHENNA GROUP COMPANY	Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

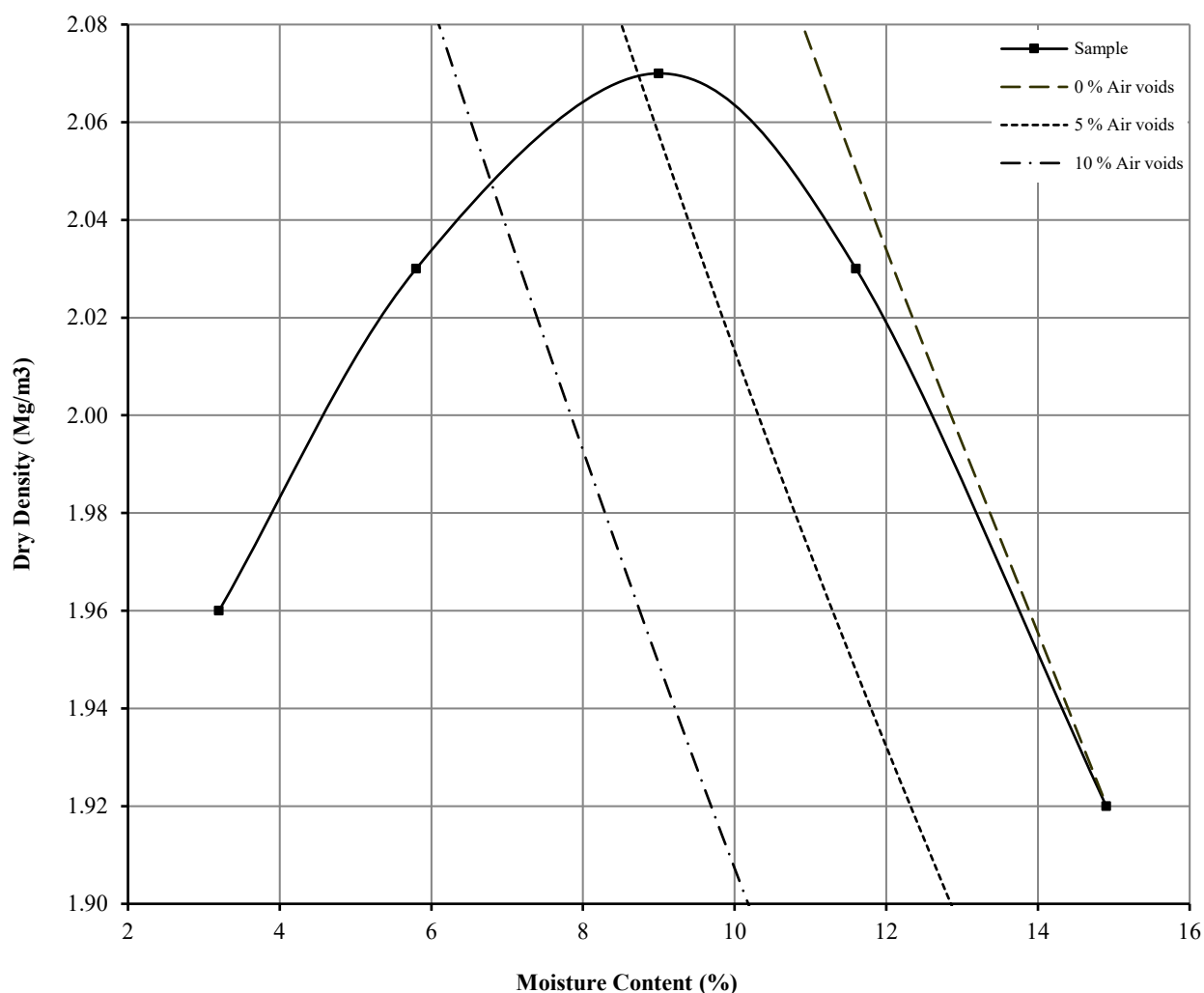
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH03 Top Depth (m) : 9.50

Sample Number: 16 Base Depth (m) : 10.00

Sample Type: B



Initial Moisture Content:	12	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.69	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	2.07		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	9			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

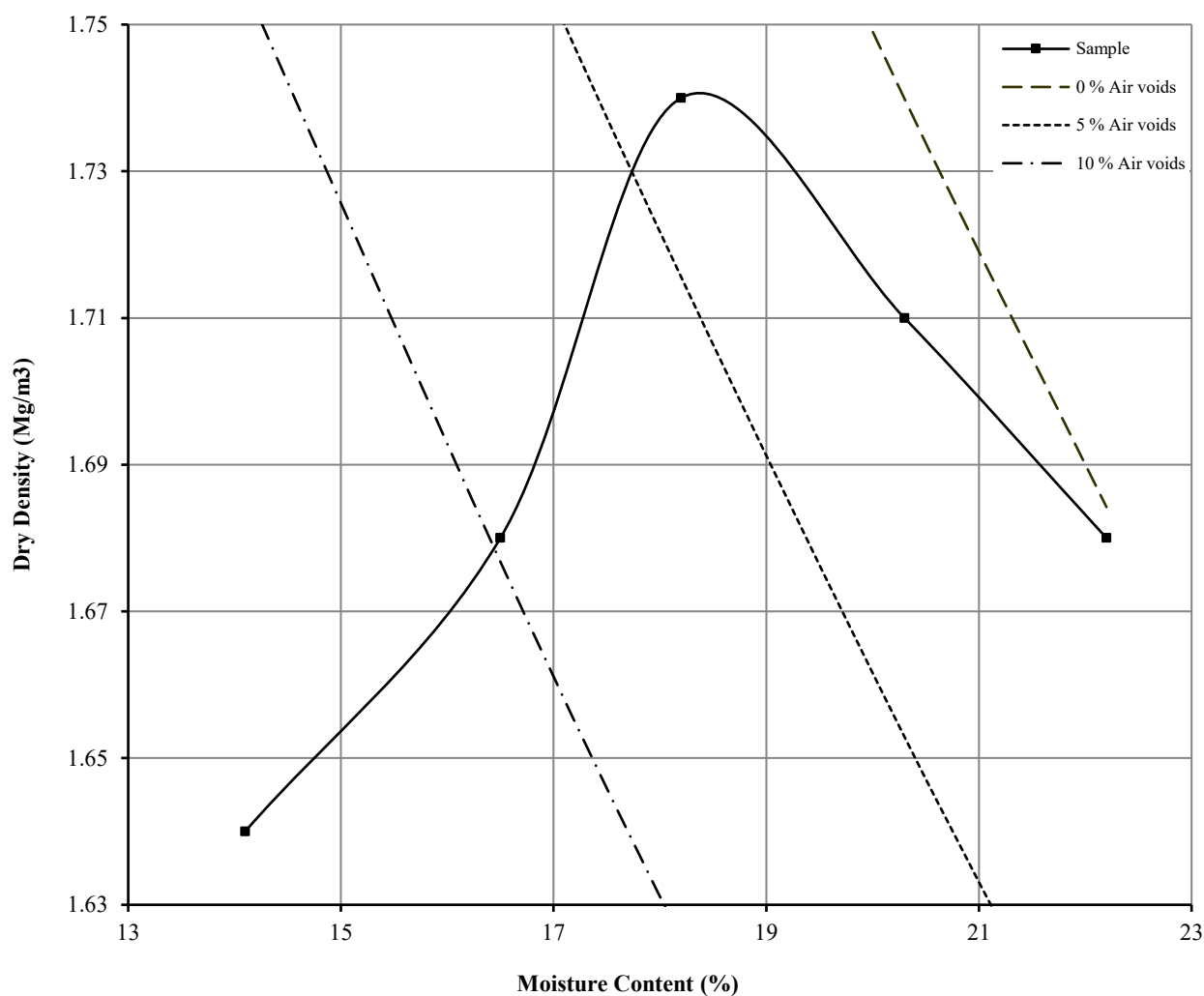
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH04 Top Depth (m) : 1.20

Sample Number: 3 Base Depth (m) : 1.65

Sample Type: B



Initial Moisture Content:	25	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.69	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.74		Material Retained on 20.0 mm Test Sieve (%):	2
Optimum Moisture Content (%):	18			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

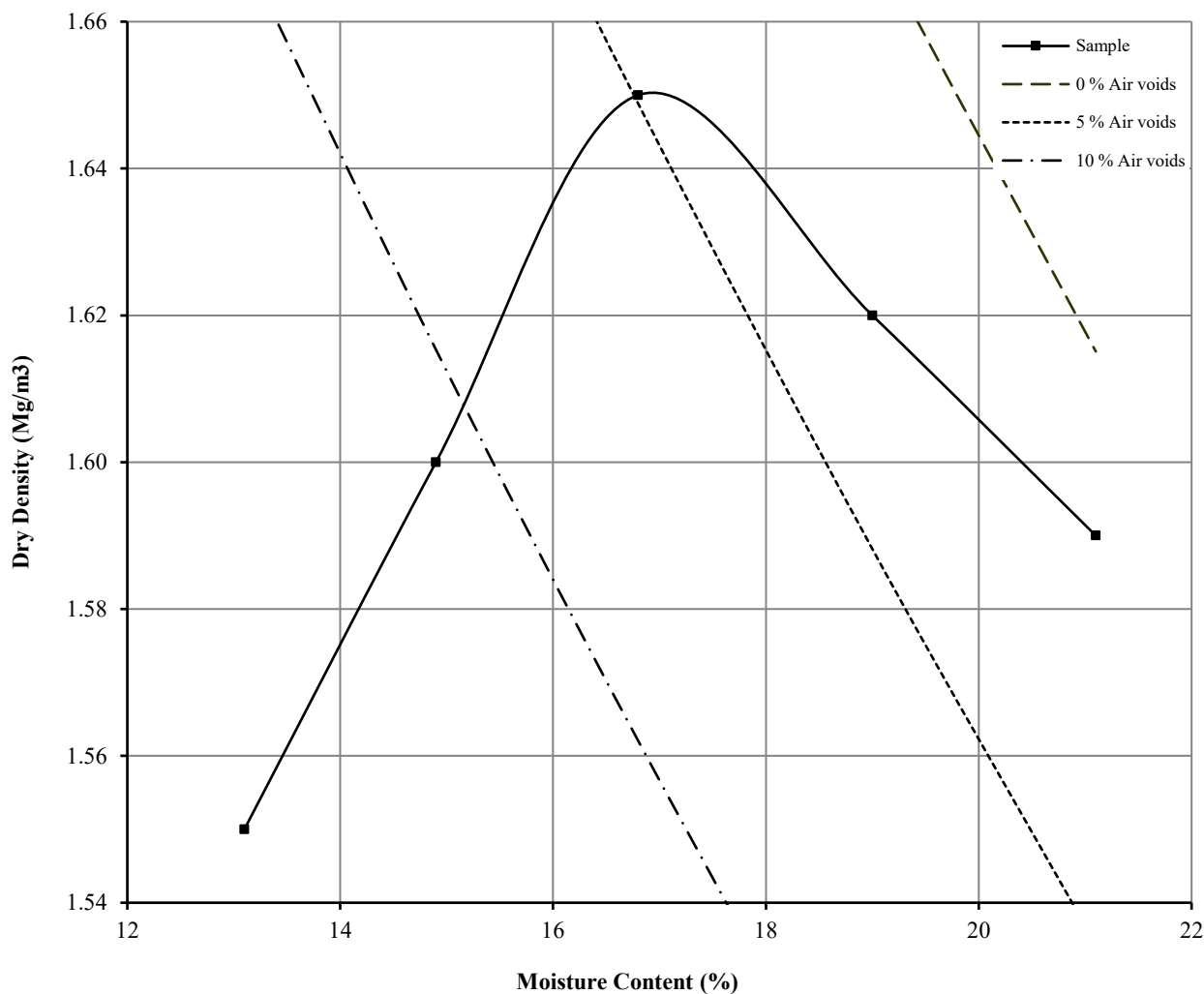
Hole Number: BH04

Top Depth (m) : 4.50

Sample Number: 9

Base Depth (m) : 4.95

Sample Type: B



Initial Moisture Content:	23	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m ³):	2.45	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m ³):	1.65		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	17			
Remarks See summary of soil descriptions				



Cowm Top

Contract
PSL24/5600
Client Ref
STV5936

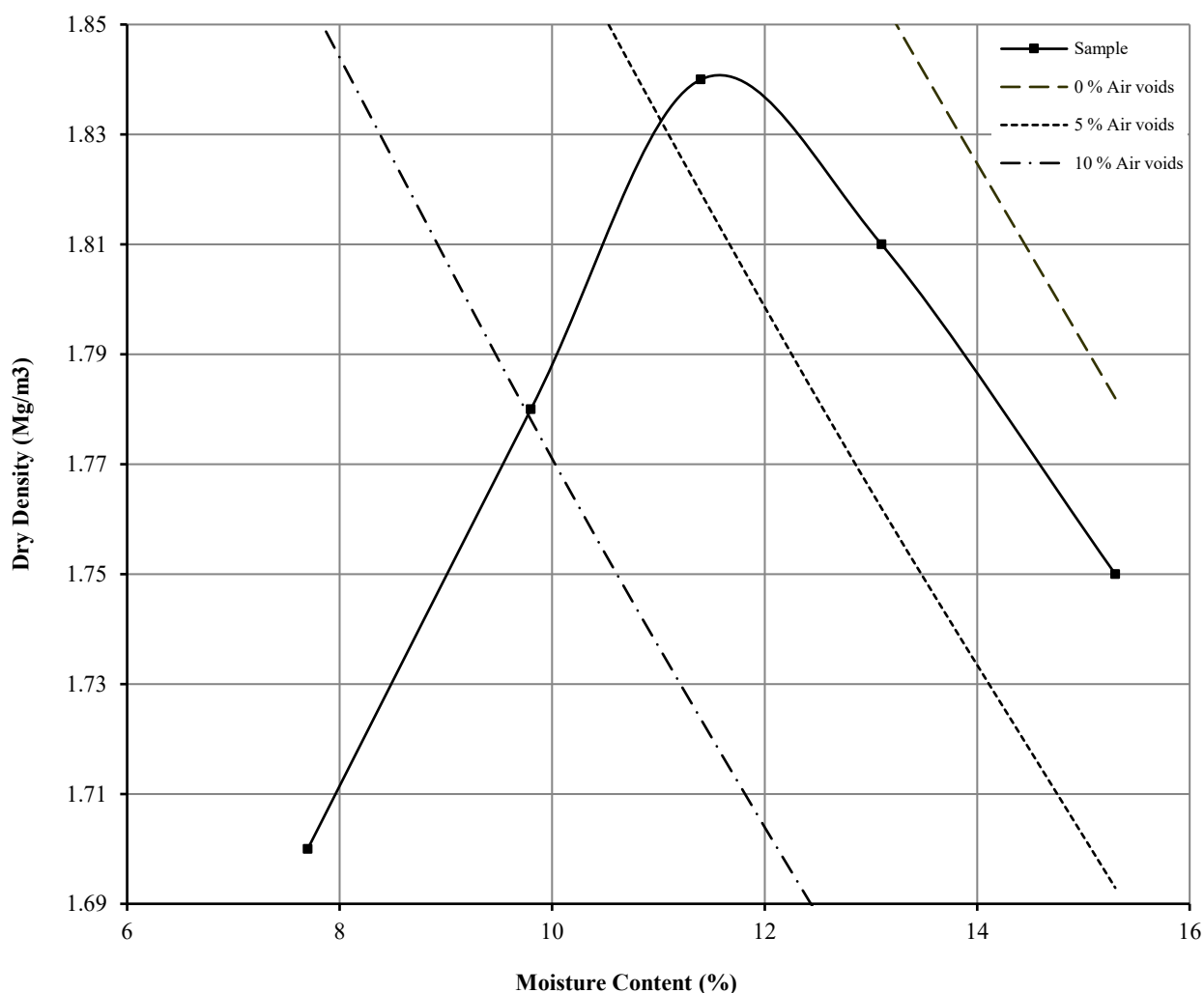
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH05 Top Depth (m) : 3.00

Sample Number: 5 Base Depth (m) : 3.45

Sample Type: B



Initial Moisture Content:	5.4	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m ³):	2.45	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m ³):	1.84		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	11			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

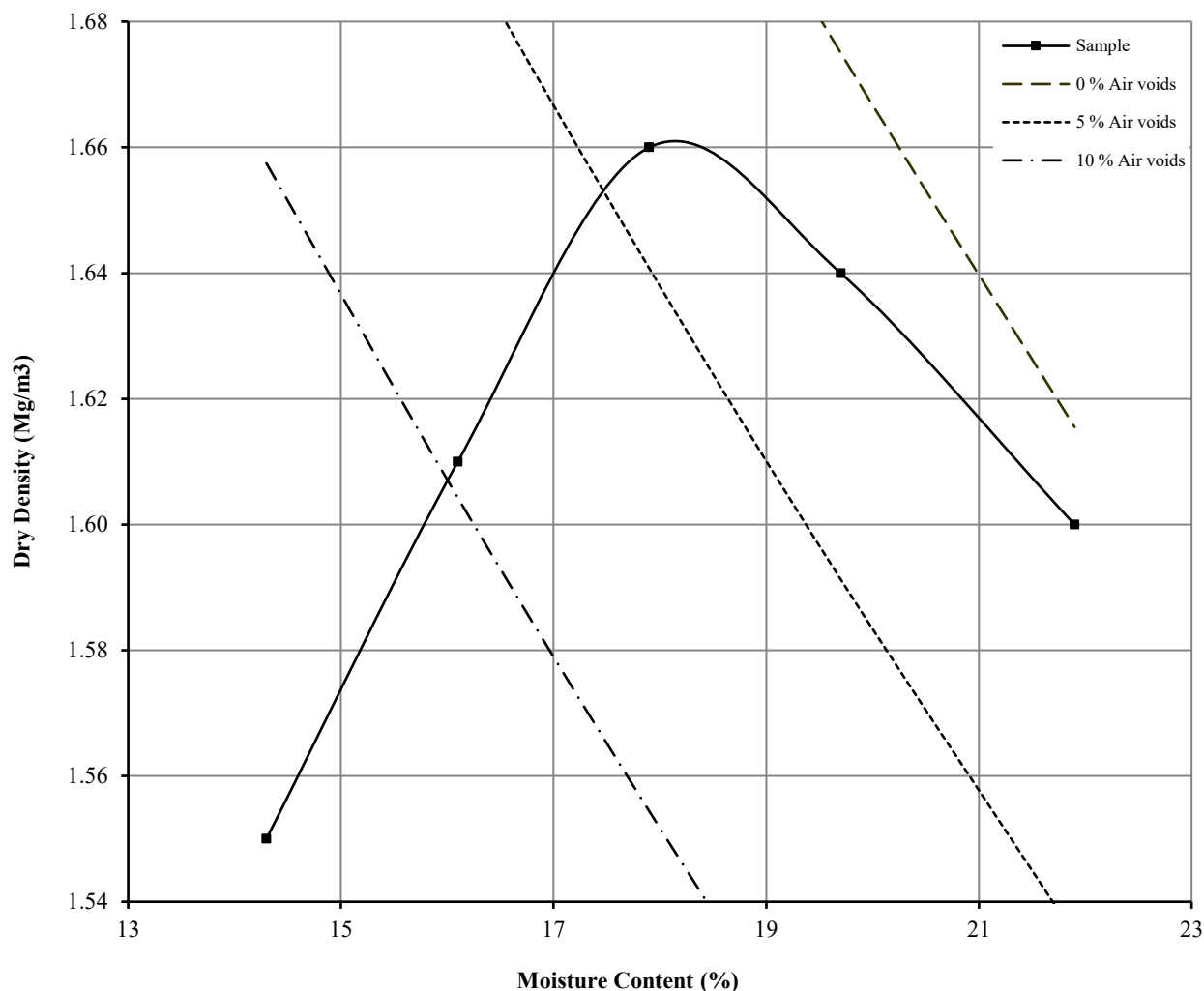
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH05 Top Depth (m) : 11.00

Sample Number: 19 Base Depth (m) : 11.45

Sample Type: B



Initial Moisture Content:	24	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.5	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.66		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	18			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

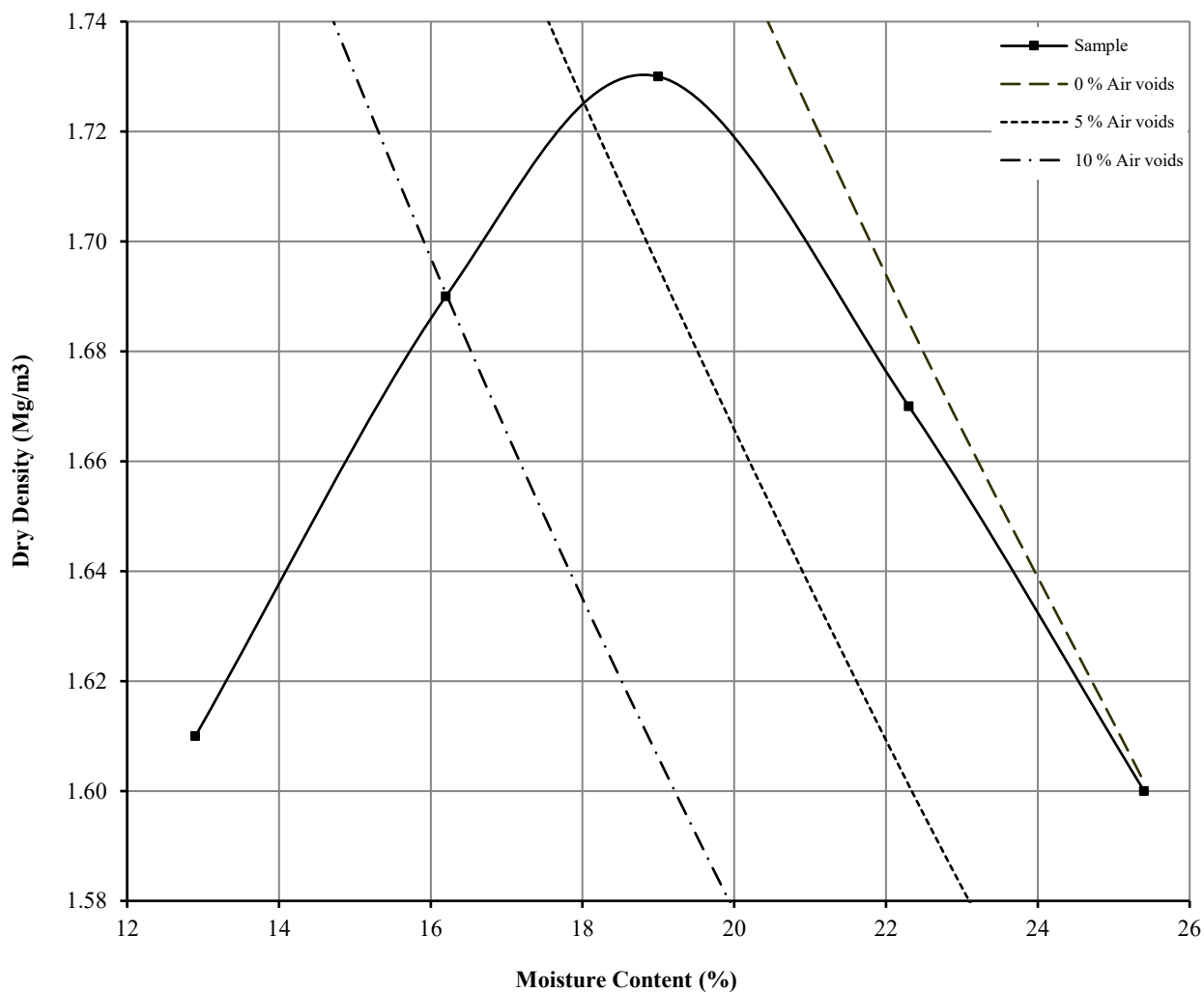
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH06 Top Depth (m) : 1.50

Sample Number: 5 Base Depth (m) : 1.95

Sample Type: D



Initial Moisture Content:	22	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.7	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.73		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	19			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

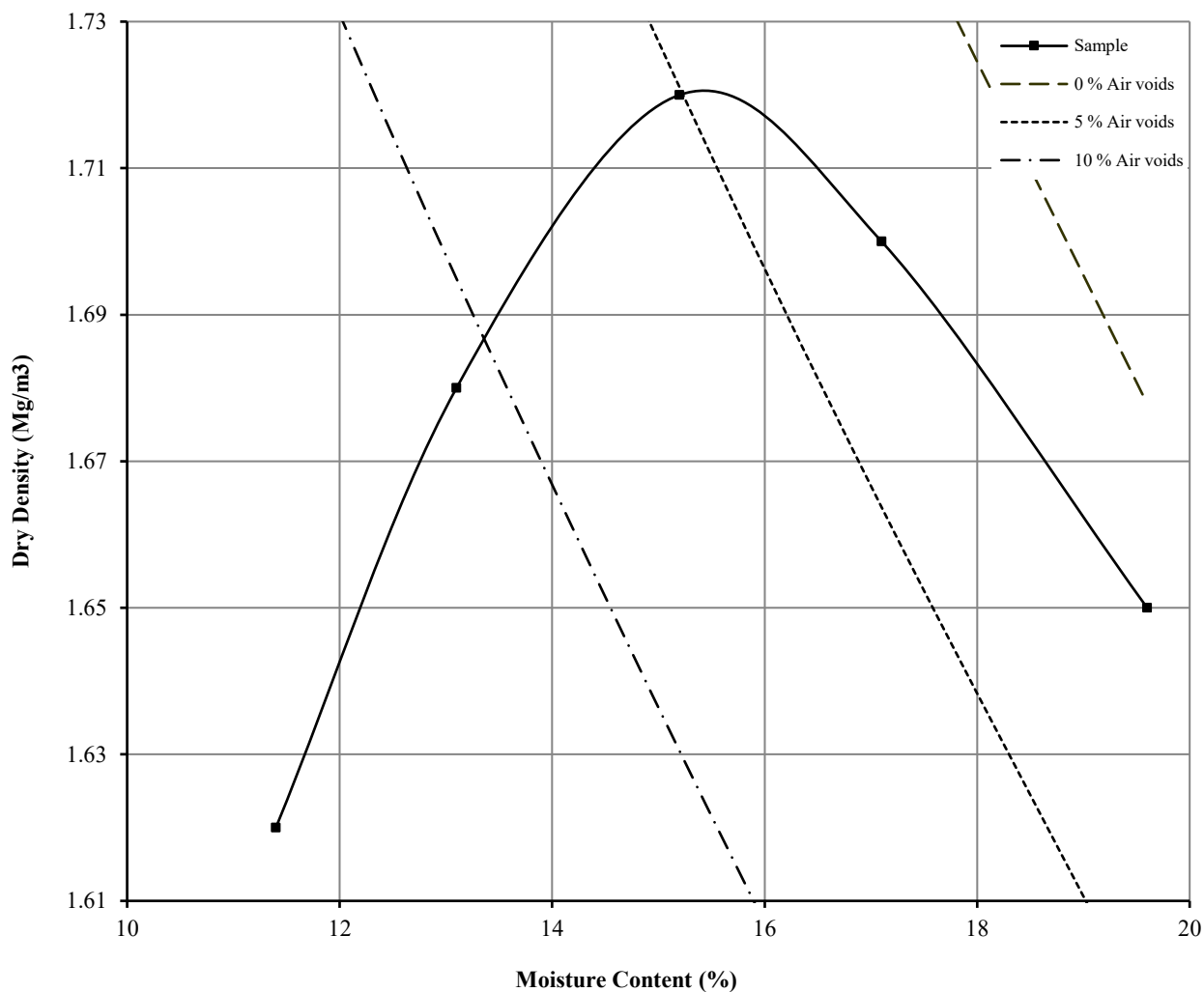
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH06 Top Depth (m) : 10.50

Sample Number: 17 Base Depth (m) : 10.95

Sample Type: B



Initial Moisture Content:	22	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.5	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.72		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	15			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

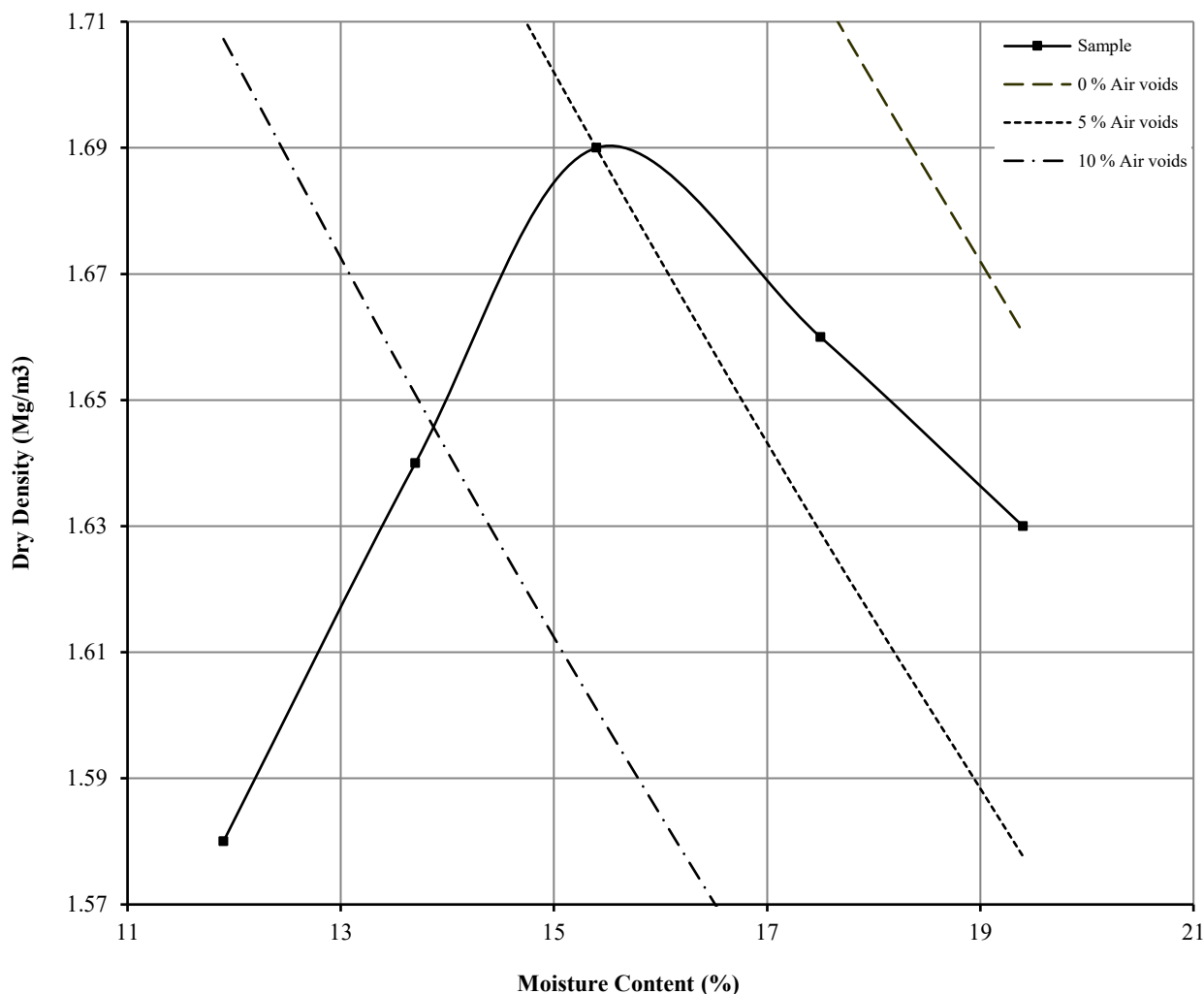
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH07 Top Depth (m) : 3.00

Sample Number: 4 Base Depth (m) : 3.45

Sample Type: B



Initial Moisture Content:	22	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.45	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.69		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	15			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

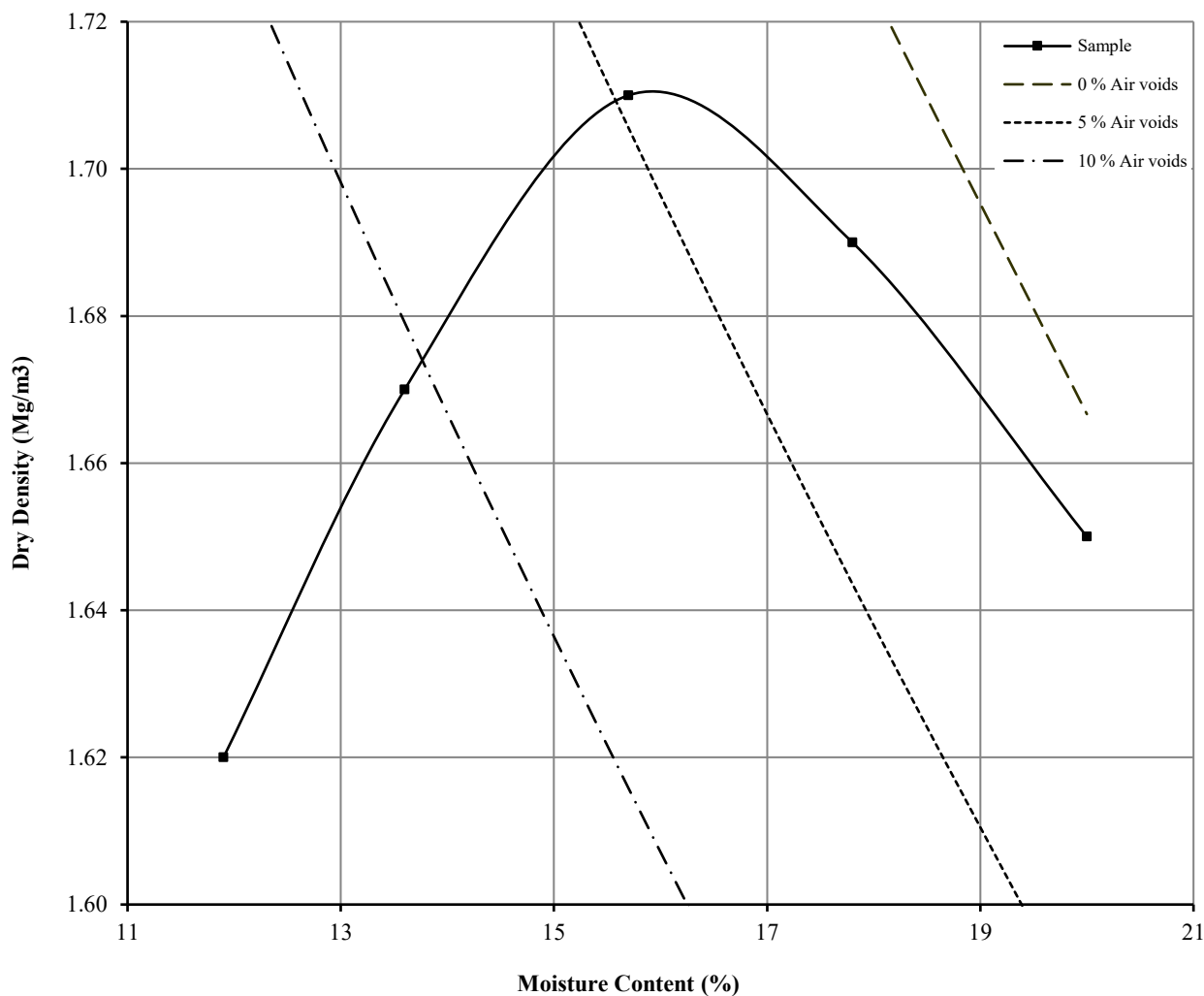
Hole Number: BH08

Top Depth (m) : 3.50

Sample Number: 6

Base Depth (m) : 4.50

Sample Type: B



Initial Moisture Content:	22	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.5	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.71		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	16			
Remarks See summary of soil descriptions				

 4043	 A PHENNA GROUP COMPANY	Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

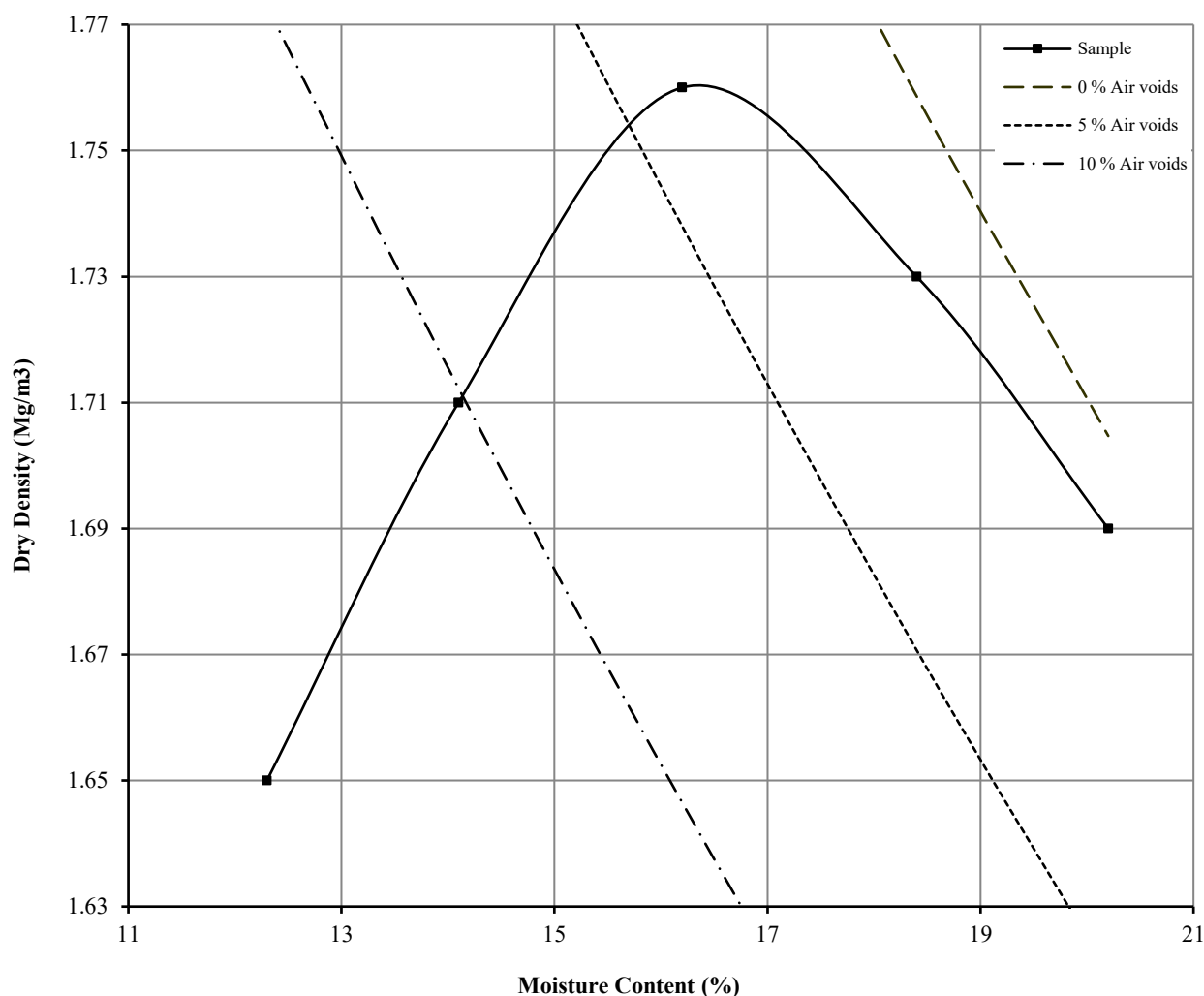
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH08 Top Depth (m) : 9.00

Sample Number: 13 Base Depth (m) : 9.45

Sample Type: SPTLS



Initial Moisture Content:	18	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.6	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.76		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	16			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

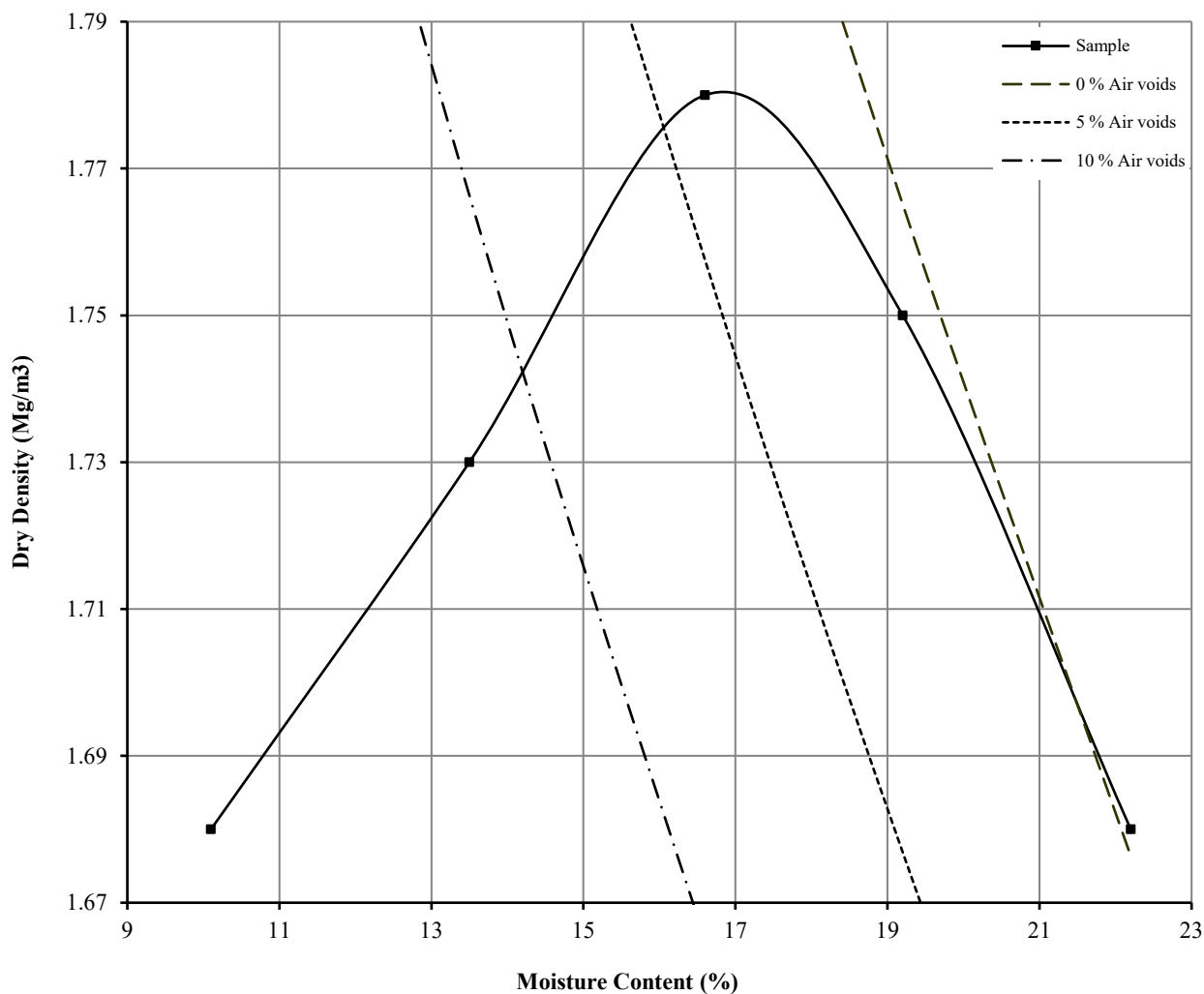
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH09 Top Depth (m) : 4.00

Sample Number: 4 Base Depth (m) : 4.45

Sample Type: B



Initial Moisture Content:	22	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m ³):	2.67	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m ³):	1.78		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	17			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

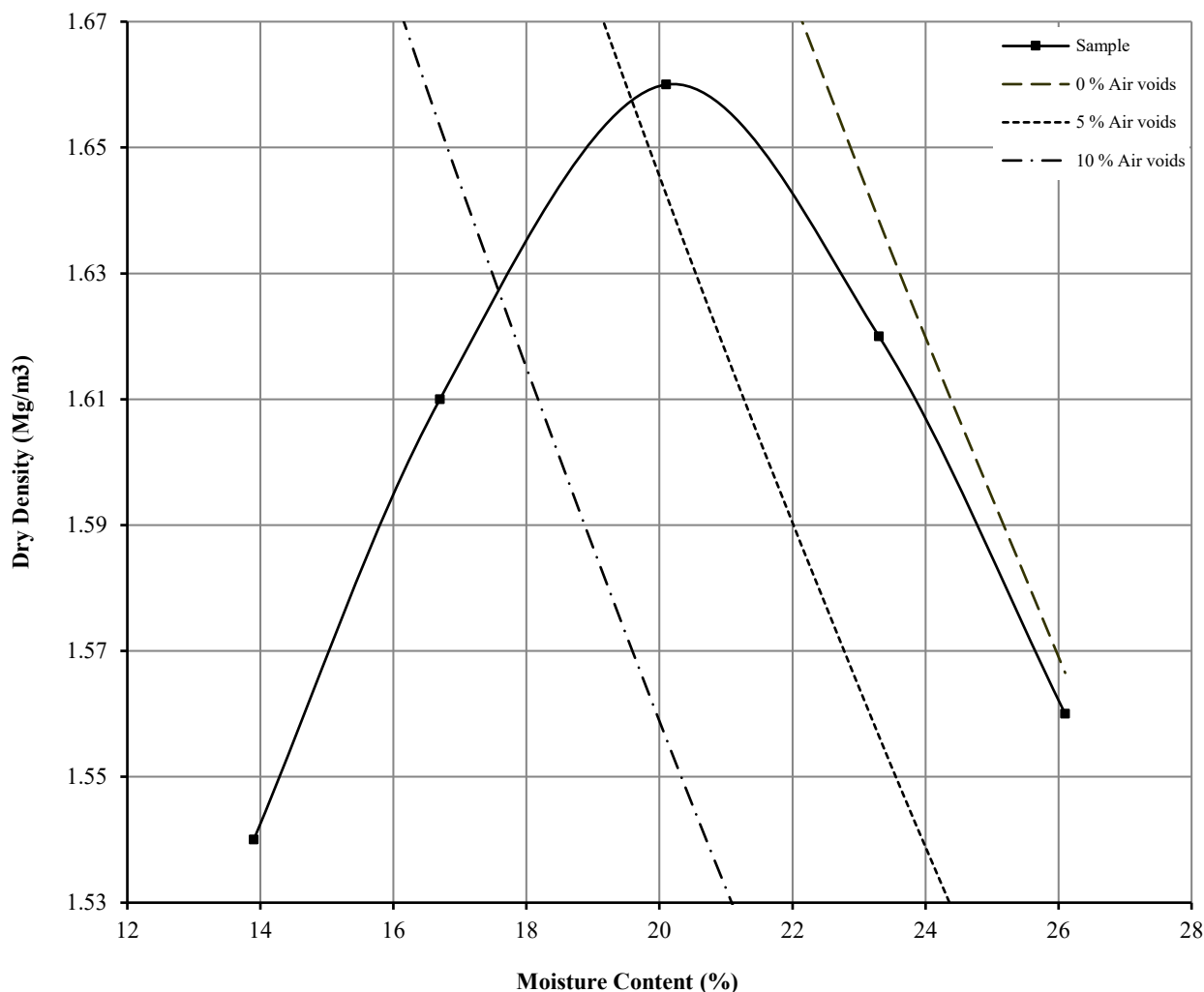
Hole Number: BH09

Top Depth (m) : 8.00

Sample Number: 7

Base Depth (m) : 8.45

Sample Type: B



Initial Moisture Content:	26	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.65	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.66		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	20			
Remarks See summary of soil descriptions				

 4043	 A PHENNA GROUP COMPANY	Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

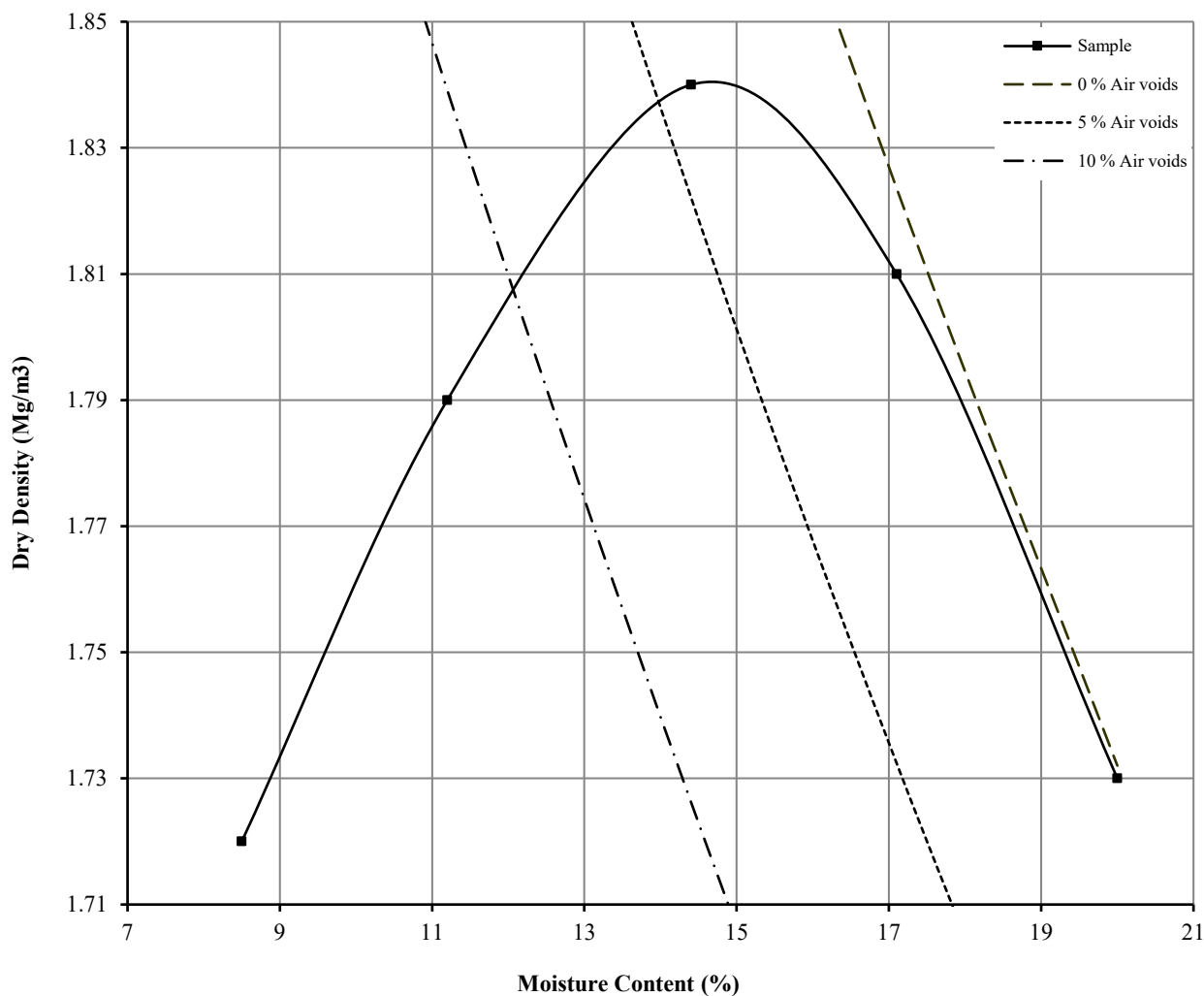
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH10 Top Depth (m) : 4.50

Sample Number: 6 Base Depth (m) : 4.95

Sample Type: B



Initial Moisture Content:	20	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.65	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.84		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	14			
Remarks See summary of soil descriptions				

 	Cowm Top			Contract
				PSL24/5600
				Client Ref
				STV5936

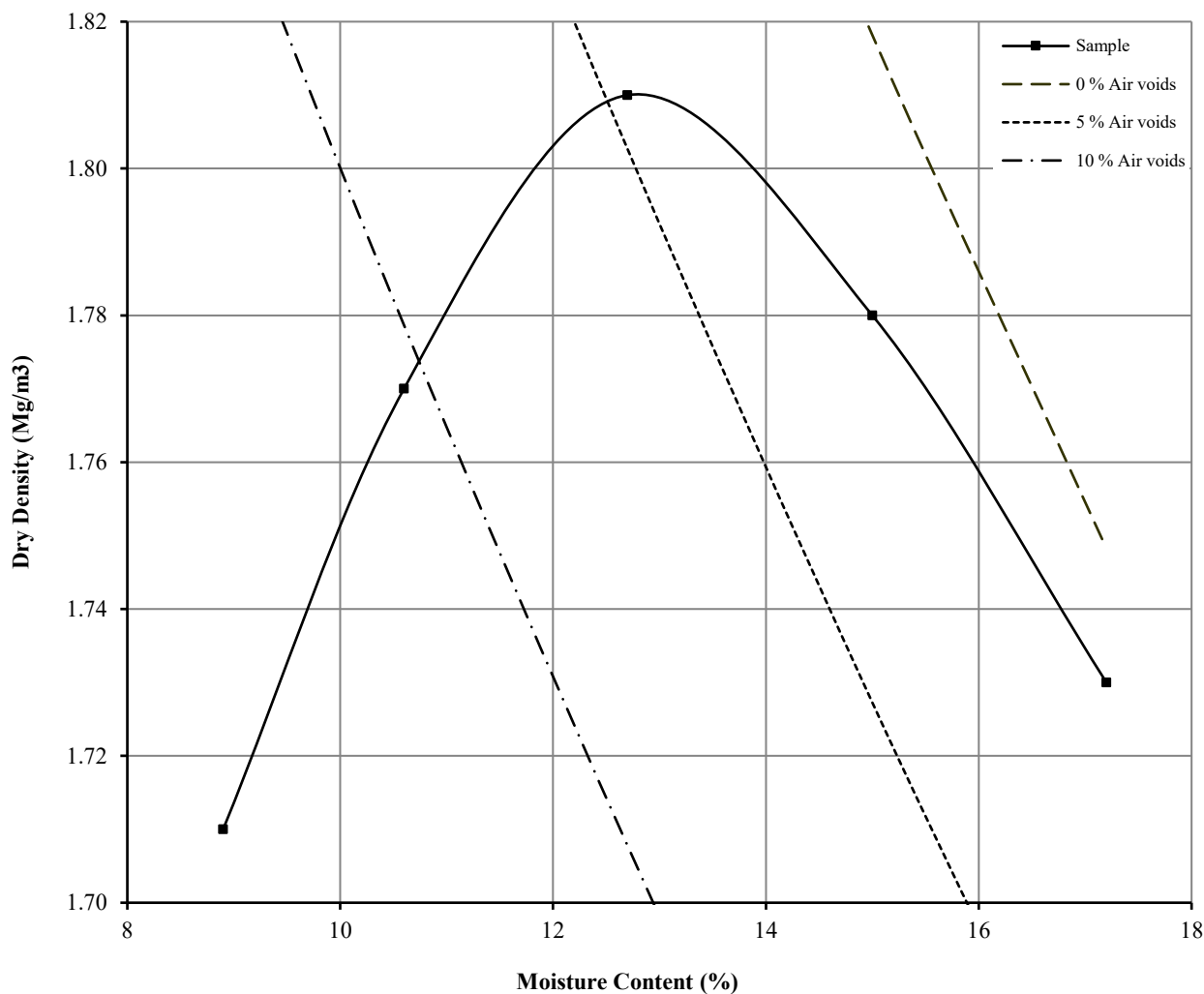
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

Hole Number: BH10 Top Depth (m) : 9.00

Sample Number: 13 Base Depth (m) : 9.45

Sample Type: B



Initial Moisture Content:	19	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.5	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.81		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	13			
Remarks See summary of soil descriptions				

		Cowm Top	Contract
			PSL24/5600
			Client Ref
			STV5936

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

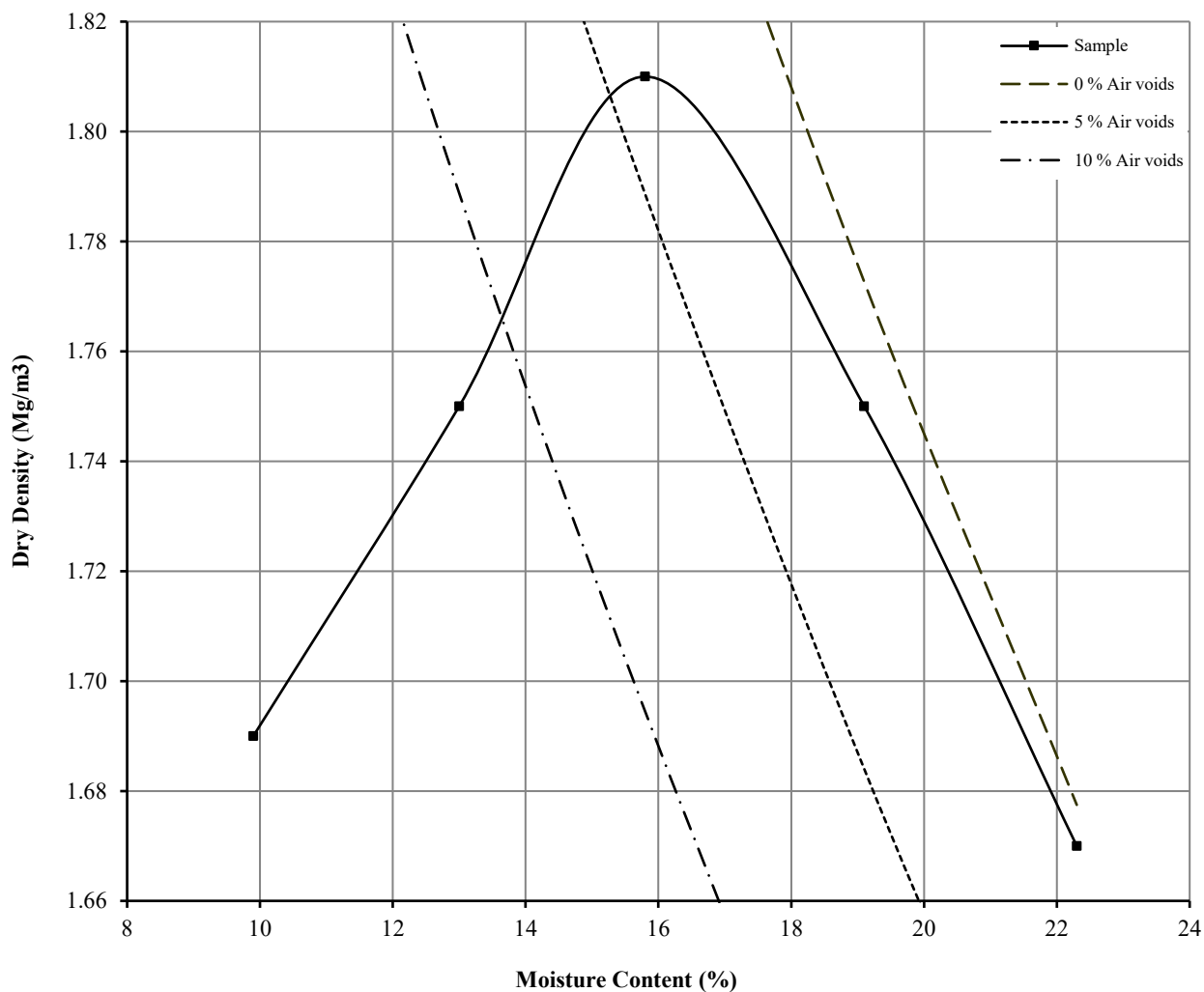
Hole Number: BH11

Top Depth (m) : 6.00

Sample Number: 11

Base Depth (m) : 6.45

Sample Type: B



Initial Moisture Content:	22	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.68	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.81		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	16			
Remarks See summary of soil descriptions				

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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

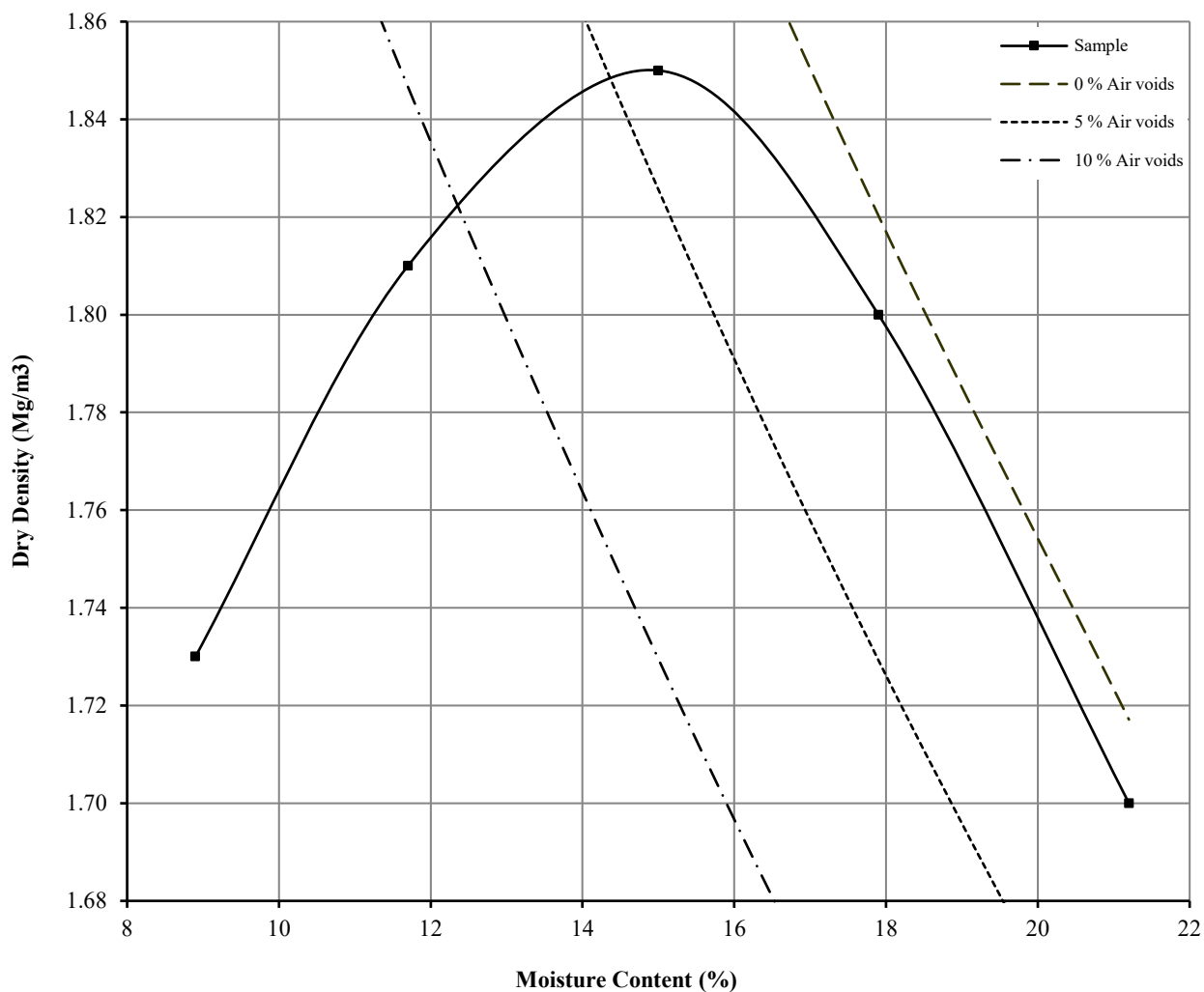
Hole Number: TP10

Top Depth (m) : 3.00

Sample Number: 4

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	18	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.7	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.85		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	15			
Remarks See summary of soil descriptions				



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

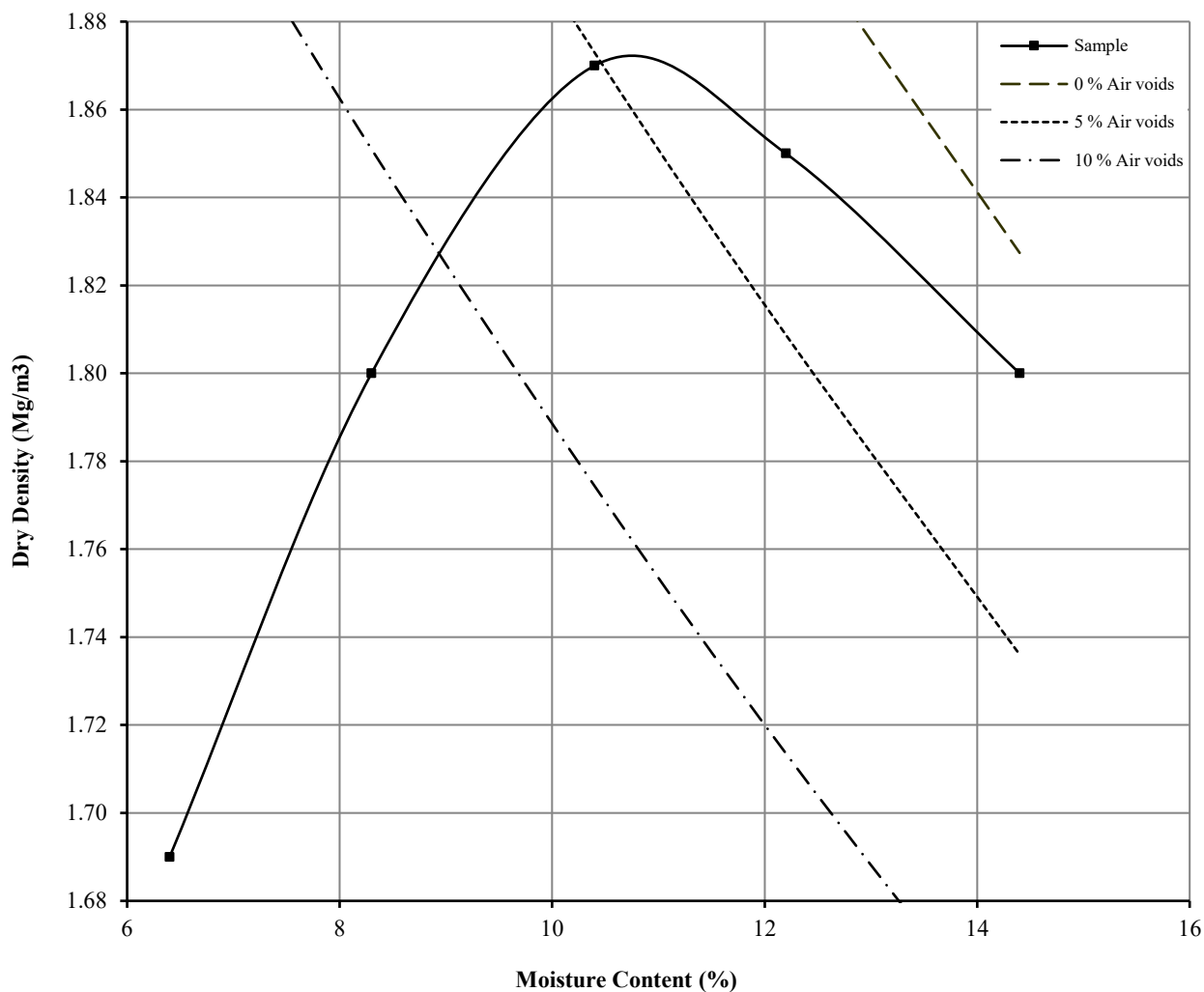
Hole Number: TP22

Top Depth (m) : 2.80

Sample Number: 4

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	6.4	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.48	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.87		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	10			
Remarks See summary of soil descriptions				

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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

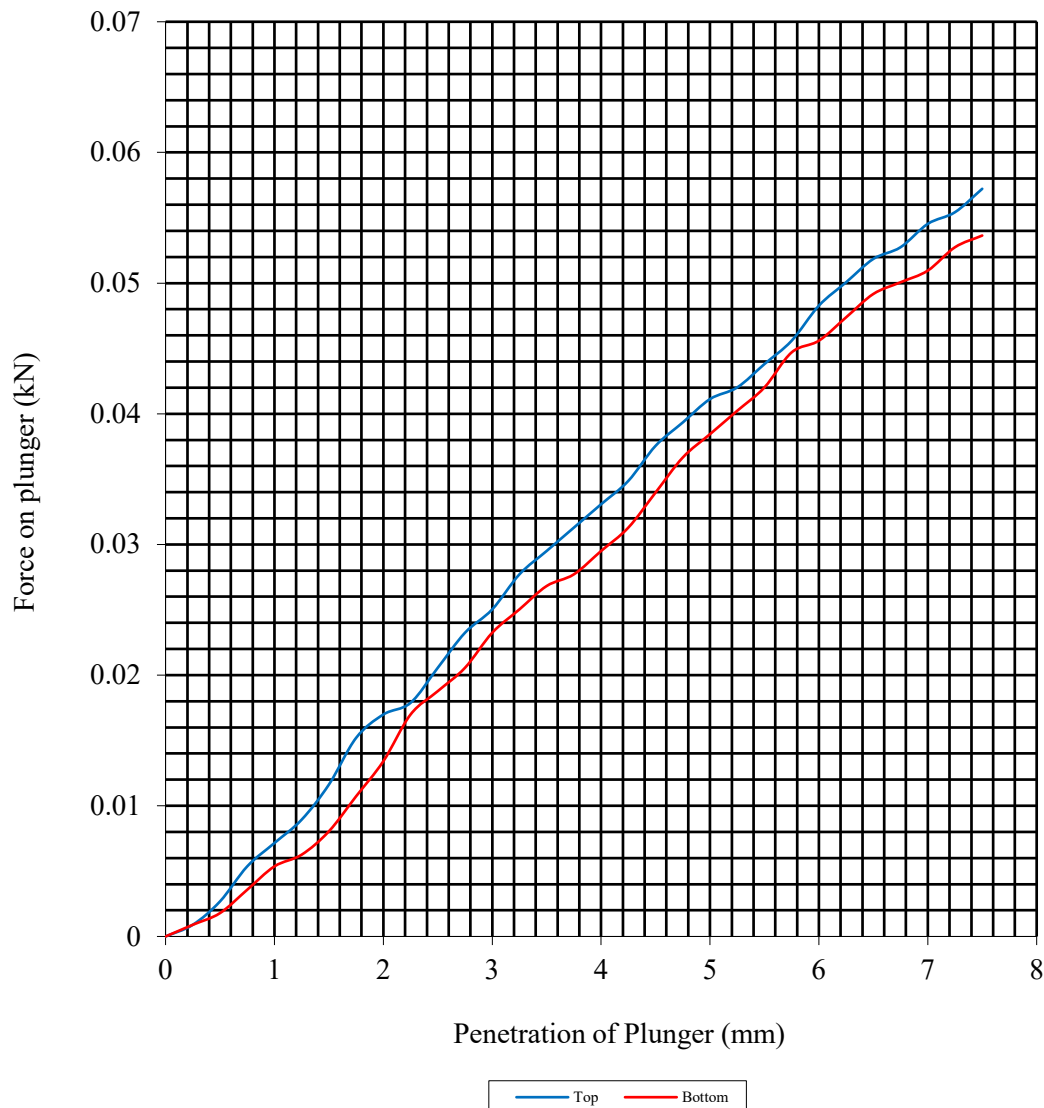
Hole Number: BH01

Top Depth (m): 0.40

Sample Number: 5

Base Depth (m): 1.20

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	21	Surcharge Kg:	4.00	Sample Top	20	Sample Top	0.2
Bulk Density Mg/m3:	2.02	Soaking Time hrs	0	Sample Bottom	21	Sample Bottom	0.2
Dry Density Mg/m3:	1.68	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		4					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

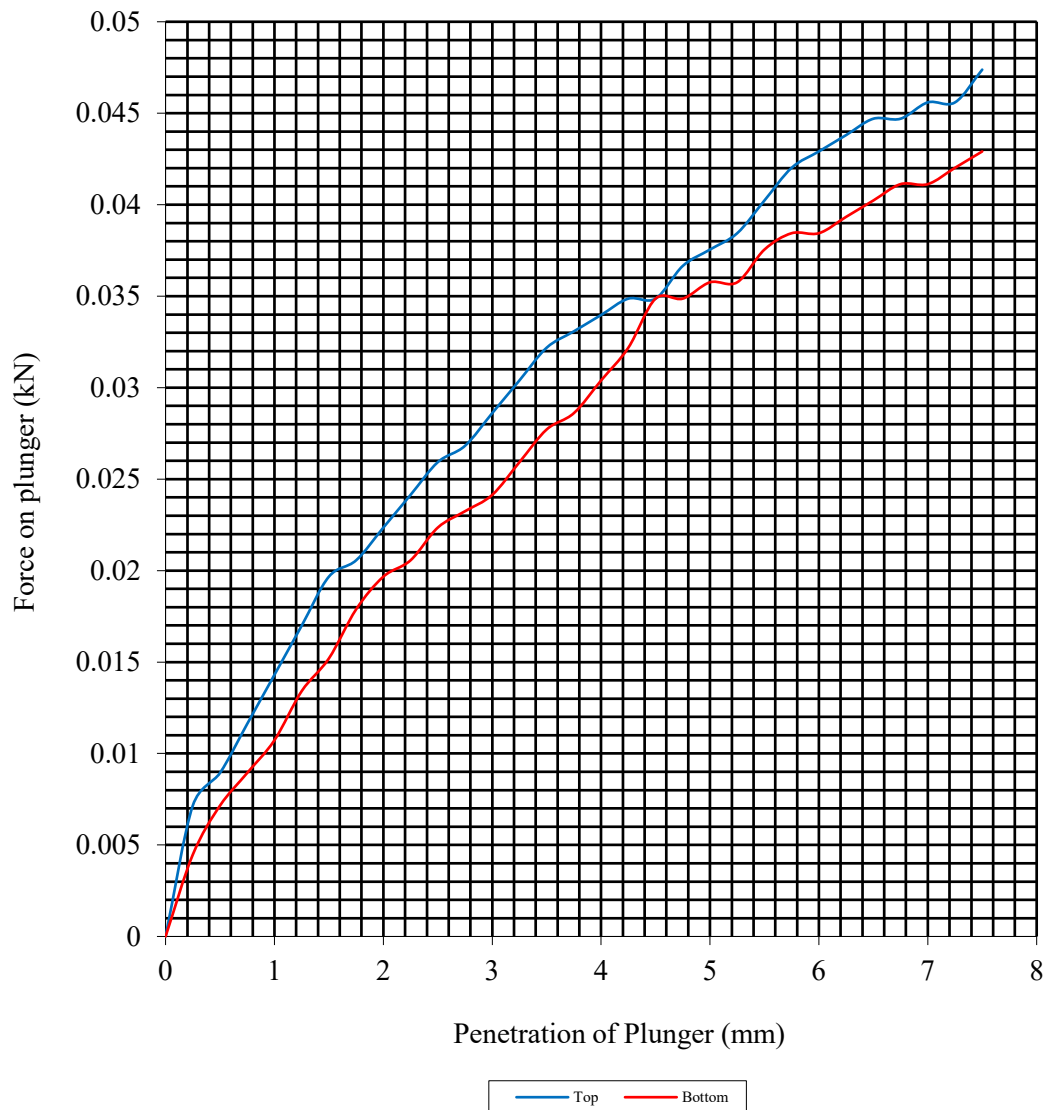
Hole Number: BH01

Top Depth (m): 10.00

Sample Number: 20

Base Depth (m): 10.45

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	27	Surcharge Kg:	4.00	Sample Top	27	Sample Top	0.2
Bulk Density Mg/m3:	1.96	Soaking Time hrs	0	Sample Bottom	27	Sample Bottom	0.2
Dry Density Mg/m3:	1.54	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



Cowm Top

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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

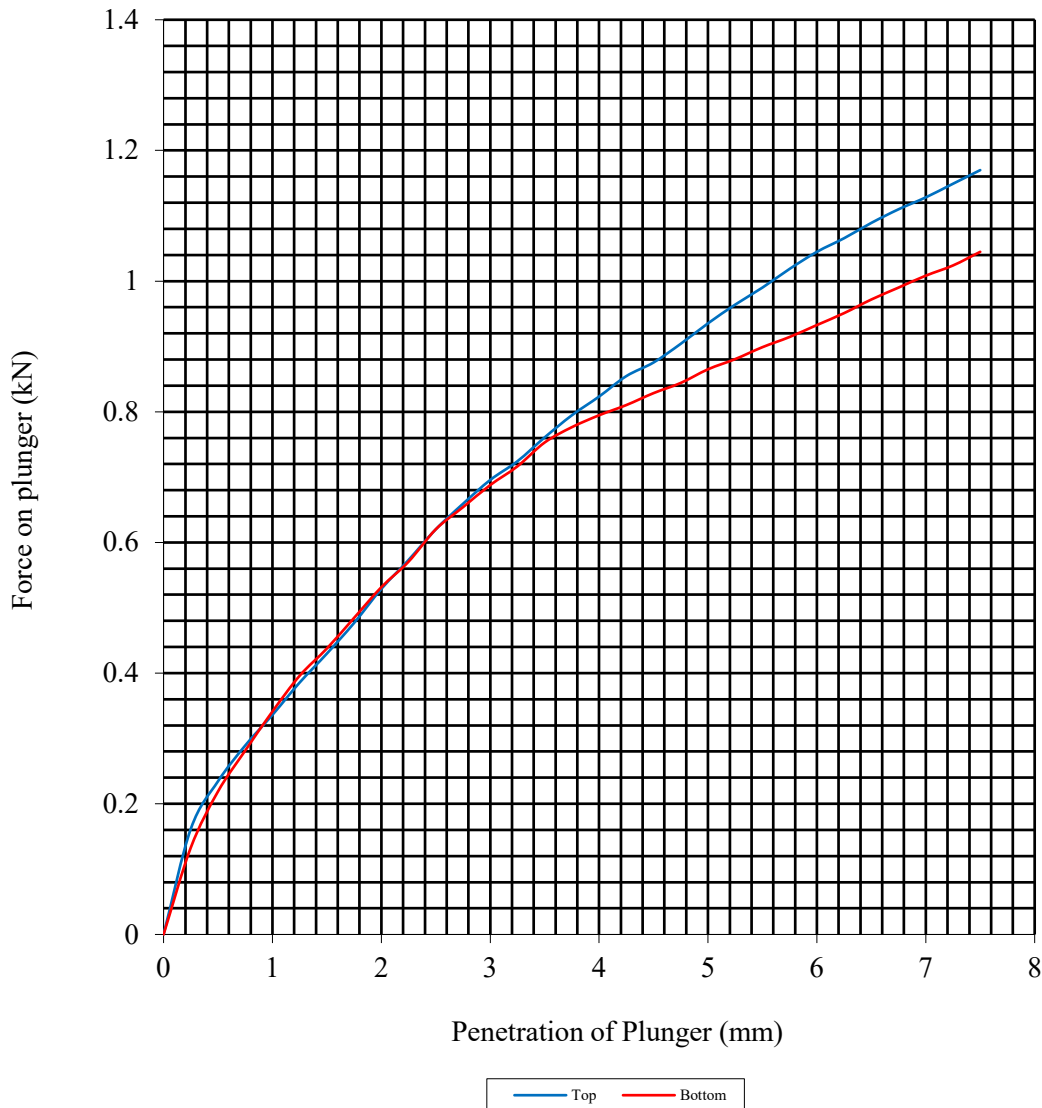
Hole Number: BH02

Top Depth (m): 5.00

Sample Number: 9

Base Depth (m): 5.50

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	20	Surcharge Kg:	4.00	Sample Top	20	Sample Top	4.7
Bulk Density Mg/m3:	2.04	Soaking Time hrs	0	Sample Bottom	20	Sample Bottom	4.7
Dry Density Mg/m3:	1.70	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

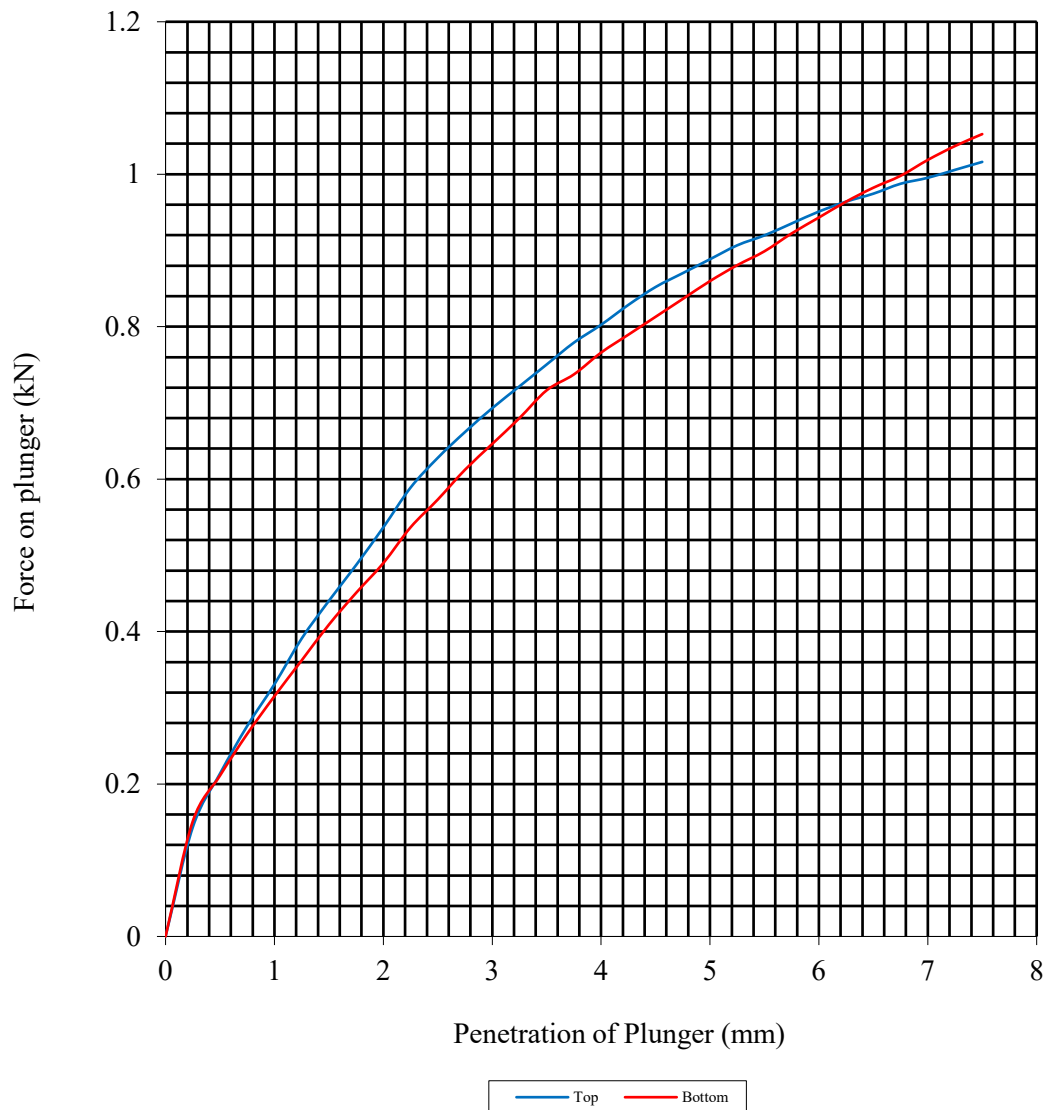
Hole Number: BH02

Top Depth (m): 11.00

Sample Number: 17

Base Depth (m): 11.50

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	26	Surcharge Kg:	4.00	Sample Top	26	Sample Top	4.8
Bulk Density Mg/m3:	1.98	Soaking Time hrs	0	Sample Bottom	26	Sample Bottom	4.3
Dry Density Mg/m3:	1.57	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

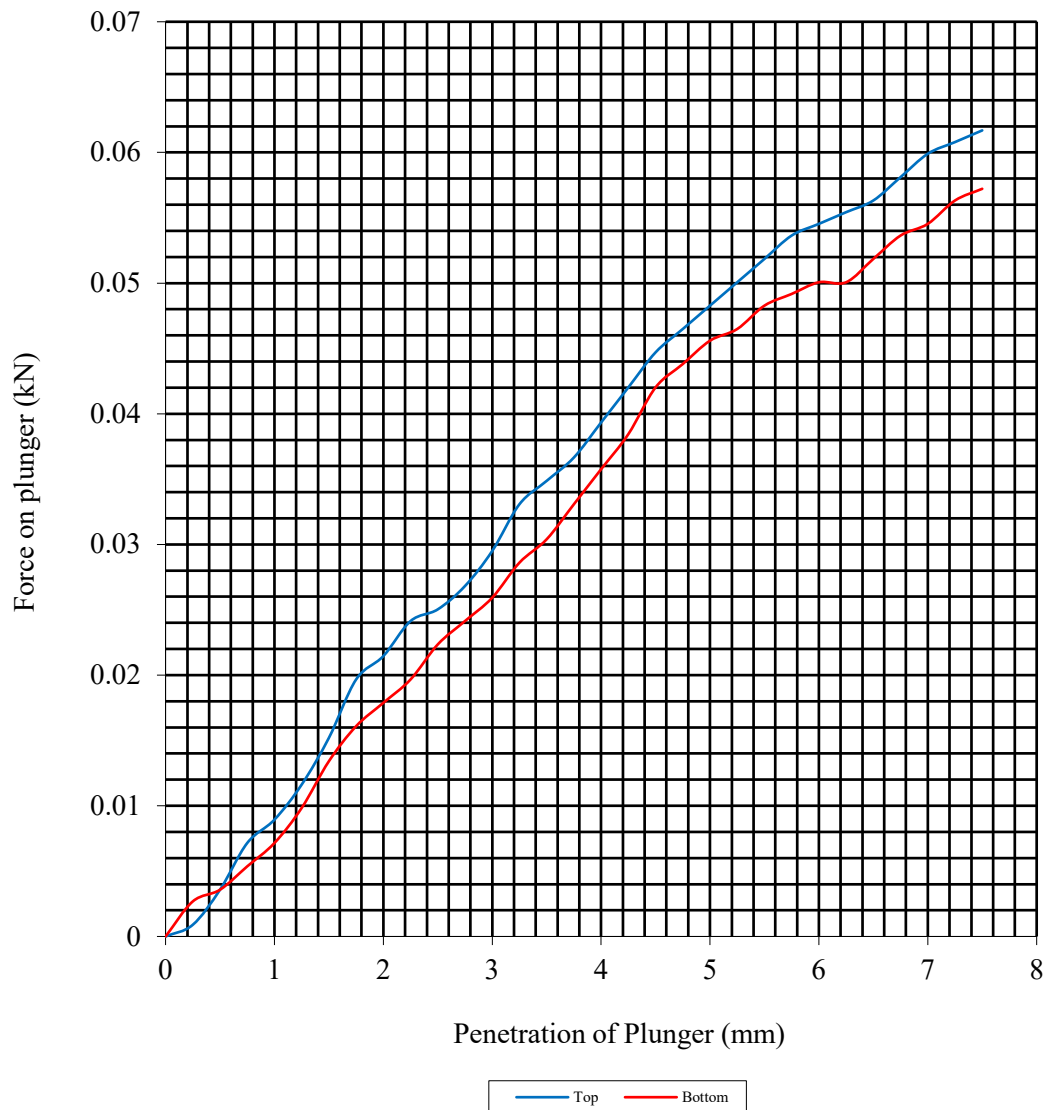
Hole Number: BH03

Top Depth (m): 4.00

Sample Number: 10

Base Depth (m): 5.00

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	23	Surcharge Kg:	4.00	Sample Top	23	Sample Top	0.2
Bulk Density Mg/m3:	2.07	Soaking Time hrs	0	Sample Bottom	23	Sample Bottom	0.2
Dry Density Mg/m3:	1.69	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

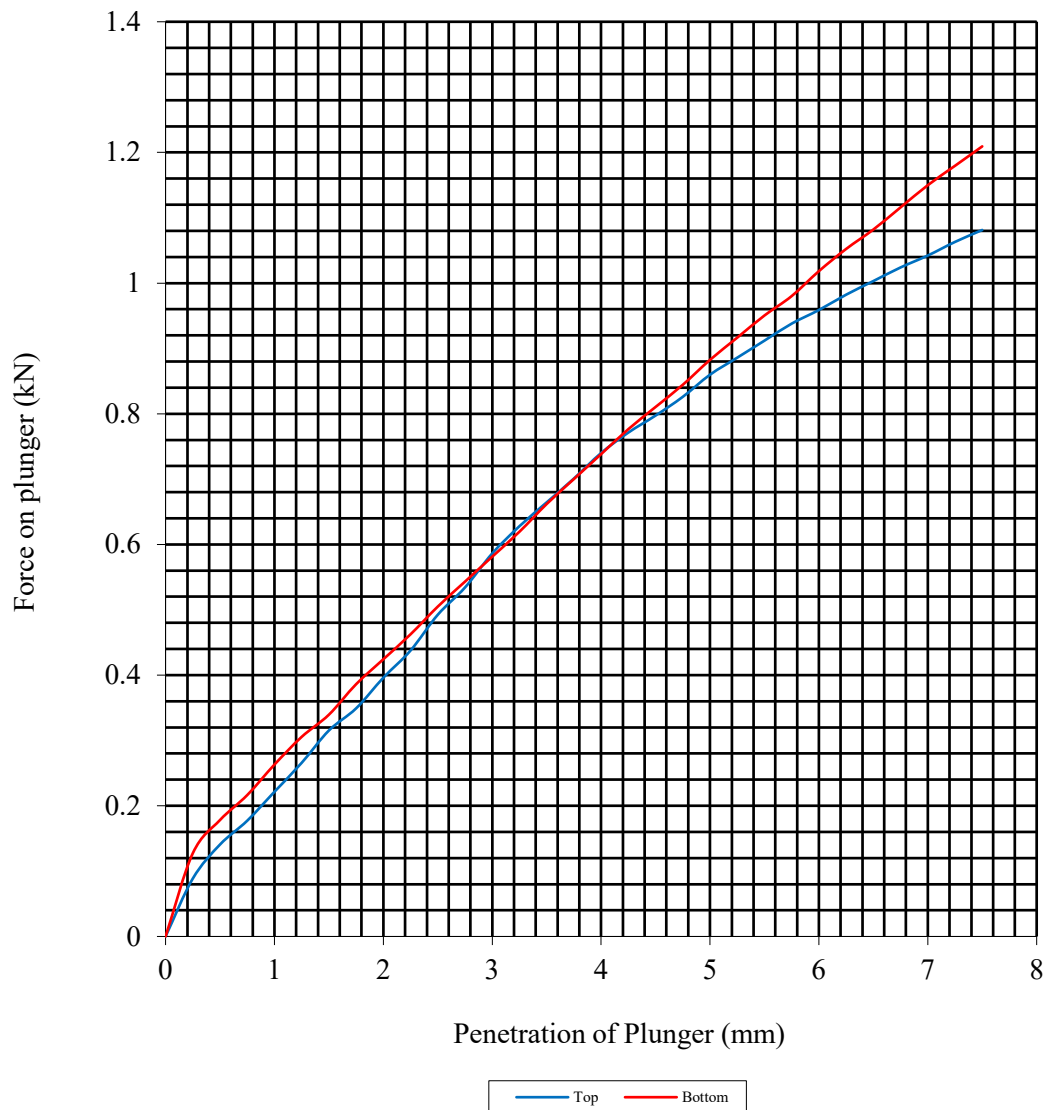
Hole Number: BH03

Top Depth (m): 9.50

Sample Number: 16

Base Depth (m): 10.00

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	12	Surcharge Kg:	4.00	Sample Top	12	Sample Top	4.3
Bulk Density Mg/m3:	2.26	Soaking Time hrs	0	Sample Bottom	12	Sample Bottom	4.4
Dry Density Mg/m3:	2.03	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

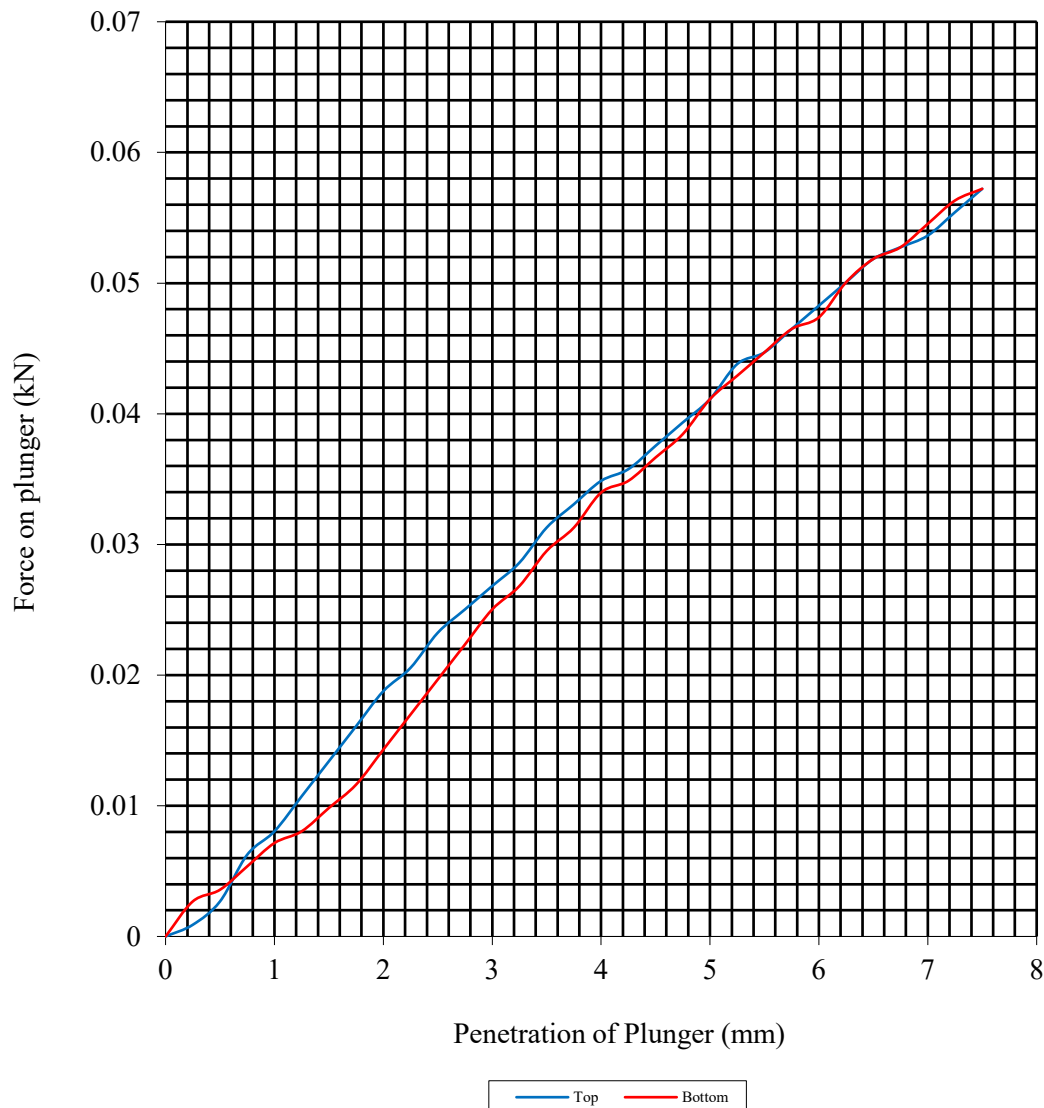
Hole Number: BH04

Top Depth (m): 1.20

Sample Number: 3

Base Depth (m): 1.65

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	25	Surcharge Kg:	4.00	Sample Top	25	Sample Top	0.2
Bulk Density Mg/m3:	2.02	Soaking Time hrs	0	Sample Bottom	25	Sample Bottom	0.2
Dry Density Mg/m3:	1.62	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		2					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

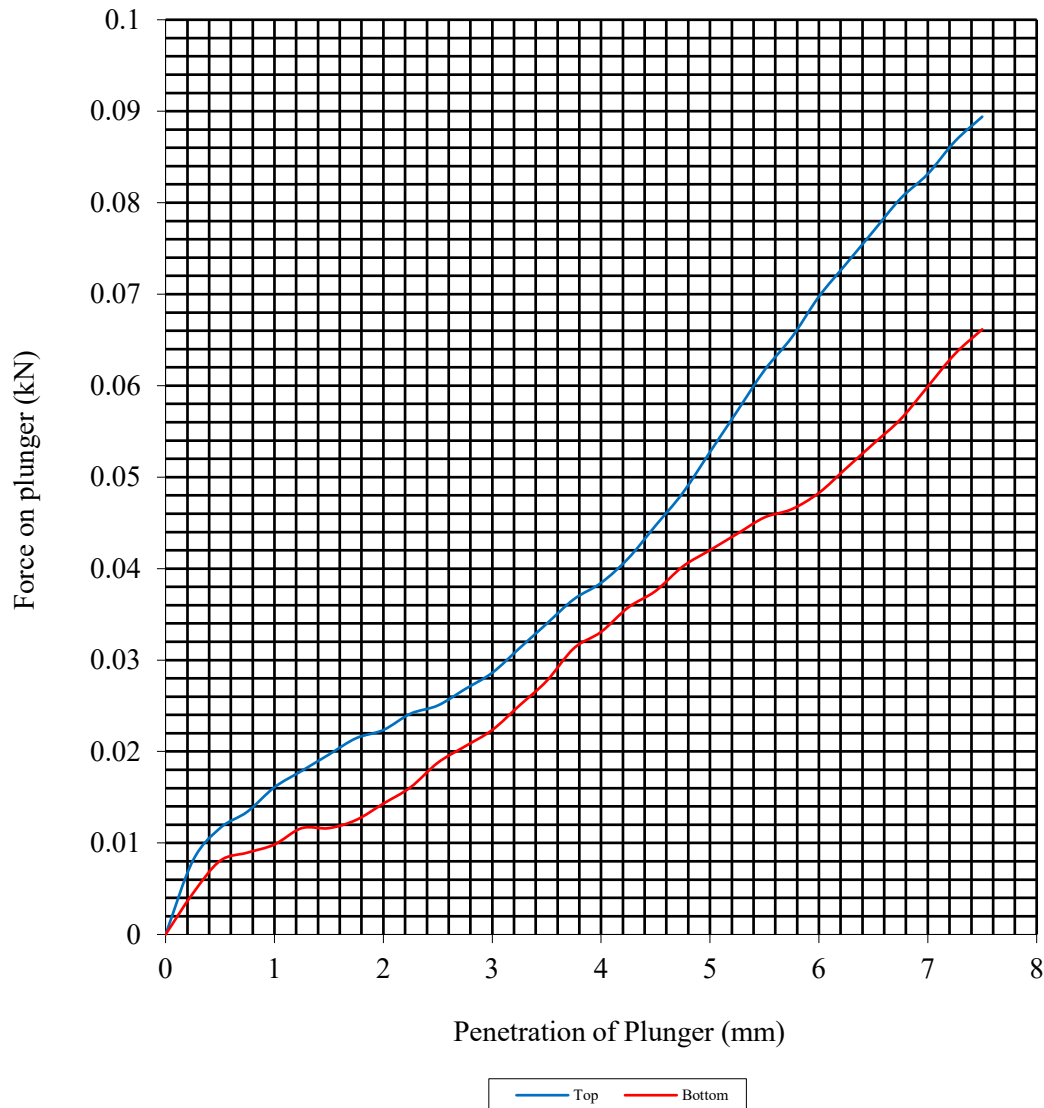
Hole Number: BH04

Top Depth (m): 4.50

Sample Number: 9

Base Depth (m): 4.95

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	23	Surcharge Kg:	4.00	Sample Top	23	Sample Top	0.3
Bulk Density Mg/m3:	1.89	Soaking Time hrs	0	Sample Bottom	23	Sample Bottom	0.2
Dry Density Mg/m3:	1.54	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

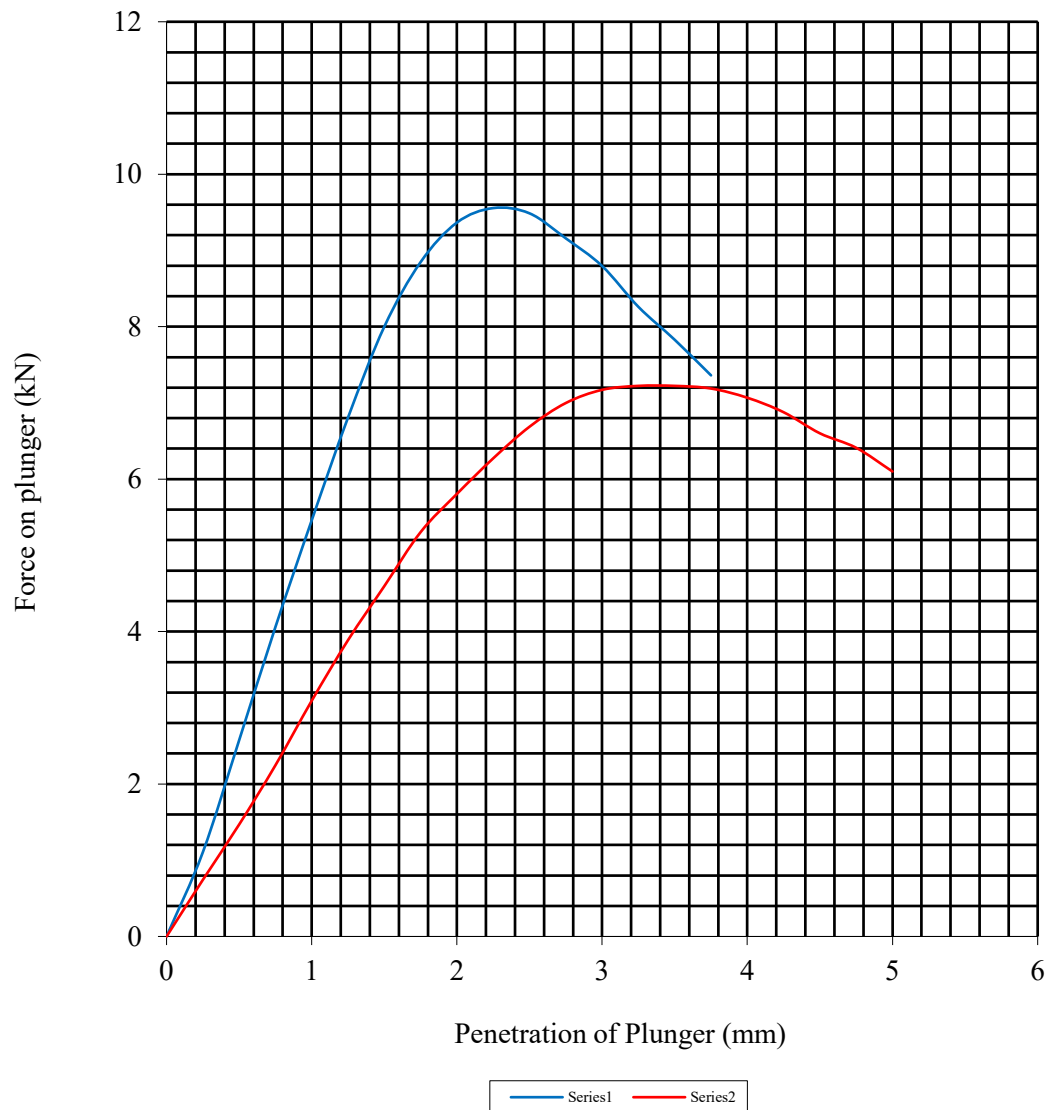
Hole Number: BH05

Top Depth (m): 3.00

Sample Number: 5

Base Depth (m): 3.45

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	5.4	Surcharge Kg:	4.00	Sample Top	5.4	Sample Top	71.9
Bulk Density Mg/m3:	1.76	Soaking Time hrs	0	Sample Bottom	5.8	Sample Bottom	50.7
Dry Density Mg/m3:	1.67	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

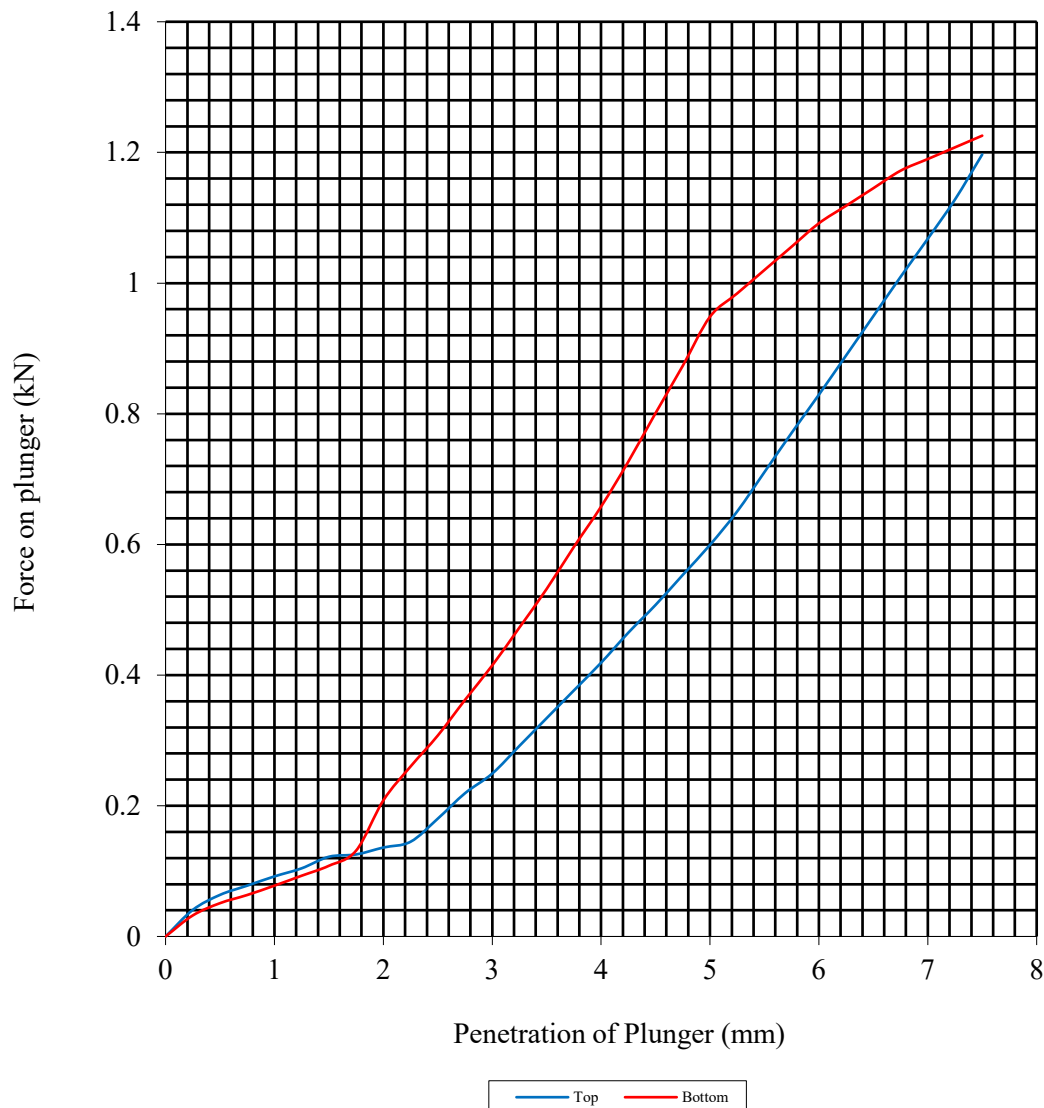
Hole Number: BH05

Top Depth (m): 12.50

Sample Number: 21

Base Depth (m): 12.95

Sample Type: D



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	23	Surcharge Kg:	4.00	Sample Top	23	Sample Top	3.0
Bulk Density Mg/m3:	1.96	Soaking Time hrs	0	Sample Bottom	23	Sample Bottom	4.7
Dry Density Mg/m3:	1.59	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

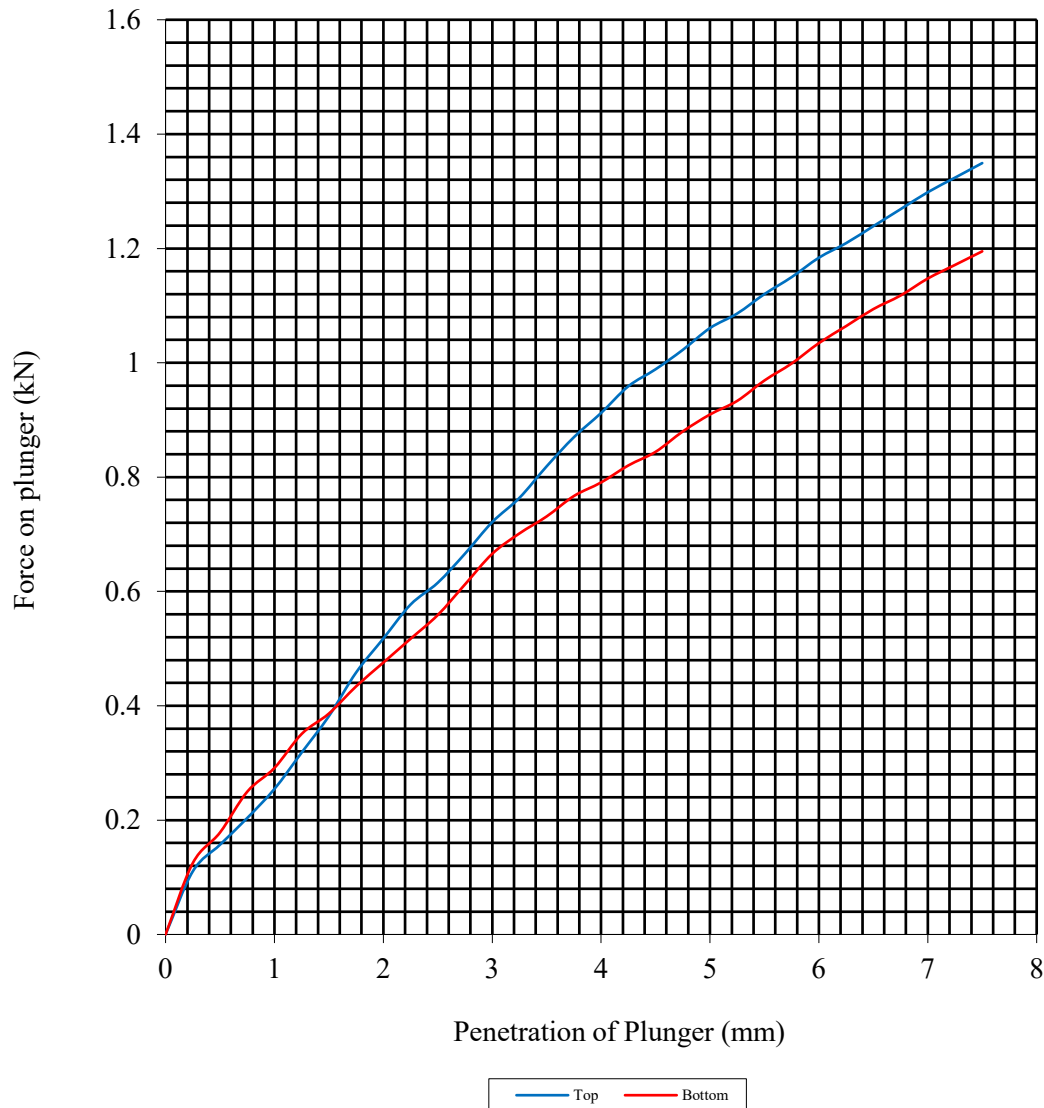
Hole Number: BH06

Top Depth (m): 1.50

Sample Number: 5

Base Depth (m): 1.95

Sample Type: D



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	22	Surcharge Kg:	4.00	Sample Top	22	Sample Top	5.3
Bulk Density Mg/m3:	2.05	Soaking Time hrs	0	Sample Bottom	23	Sample Bottom	4.5
Dry Density Mg/m3:	1.68	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

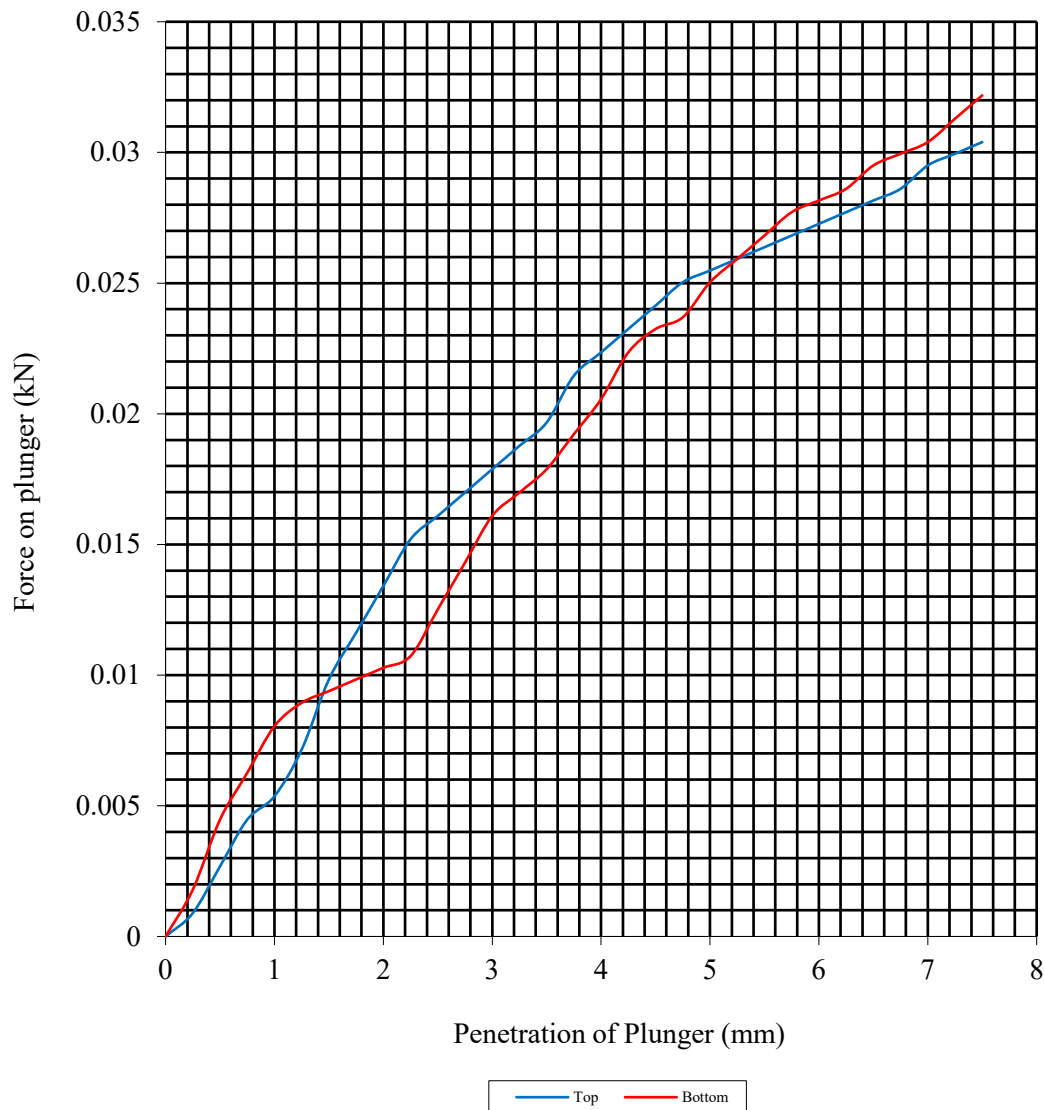
Hole Number: BH06

Top Depth (m): 10.50

Sample Number: 17

Base Depth (m): 10.95

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	22	Surcharge Kg:	4.00	Sample Top	22	Sample Top	0.1
Bulk Density Mg/m3:	1.96	Soaking Time hrs	0	Sample Bottom	22	Sample Bottom	0.1
Dry Density Mg/m3:	1.61	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

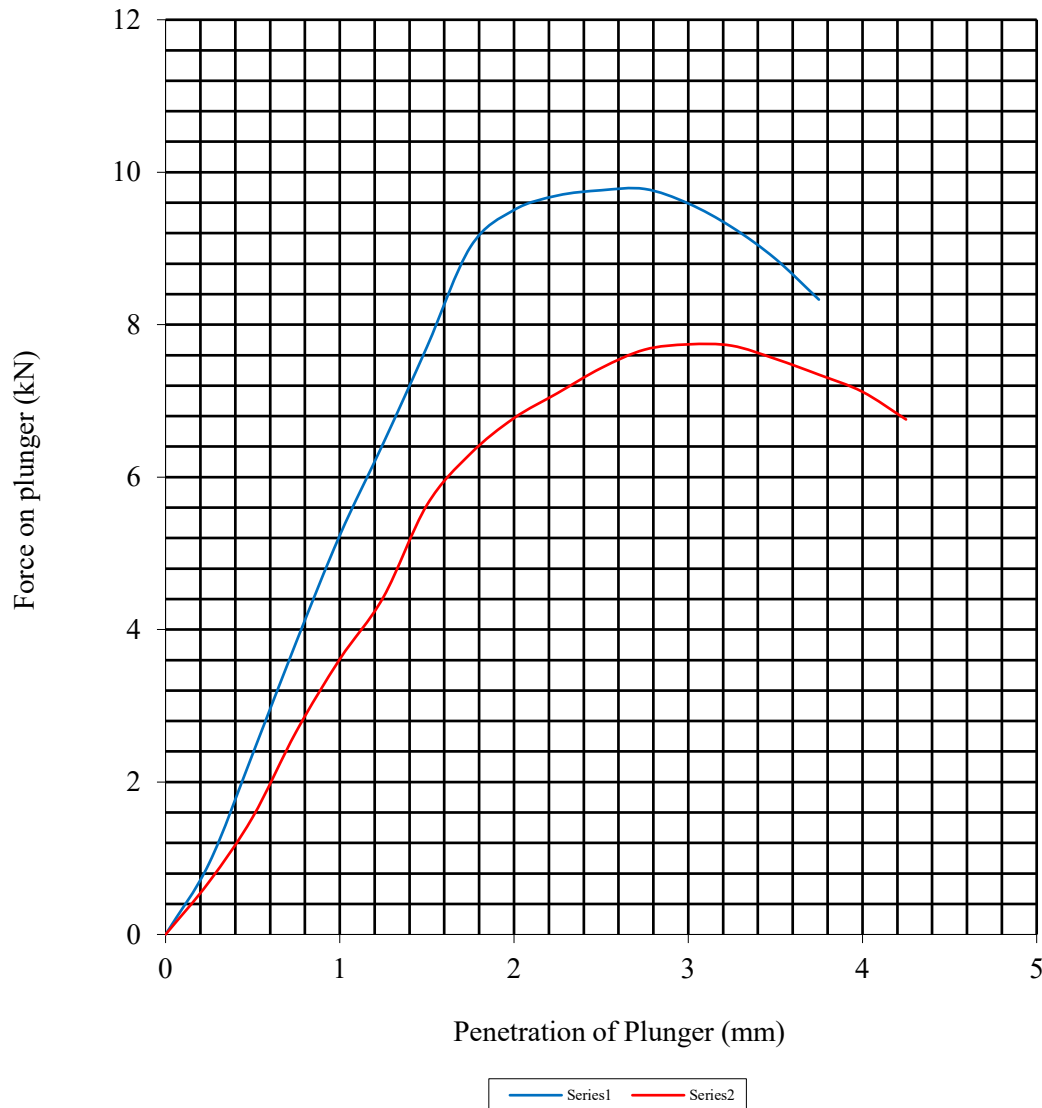
Hole Number: BH07

Top Depth (m): 4.50

Sample Number: 5

Base Depth (m): 4.95

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	11	Surcharge Kg:	4.00	Sample Top	10	Sample Top	74.0
Bulk Density Mg/m3:	1.80	Soaking Time hrs	0	Sample Bottom	12	Sample Bottom	56.3
Dry Density Mg/m3:	1.63	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

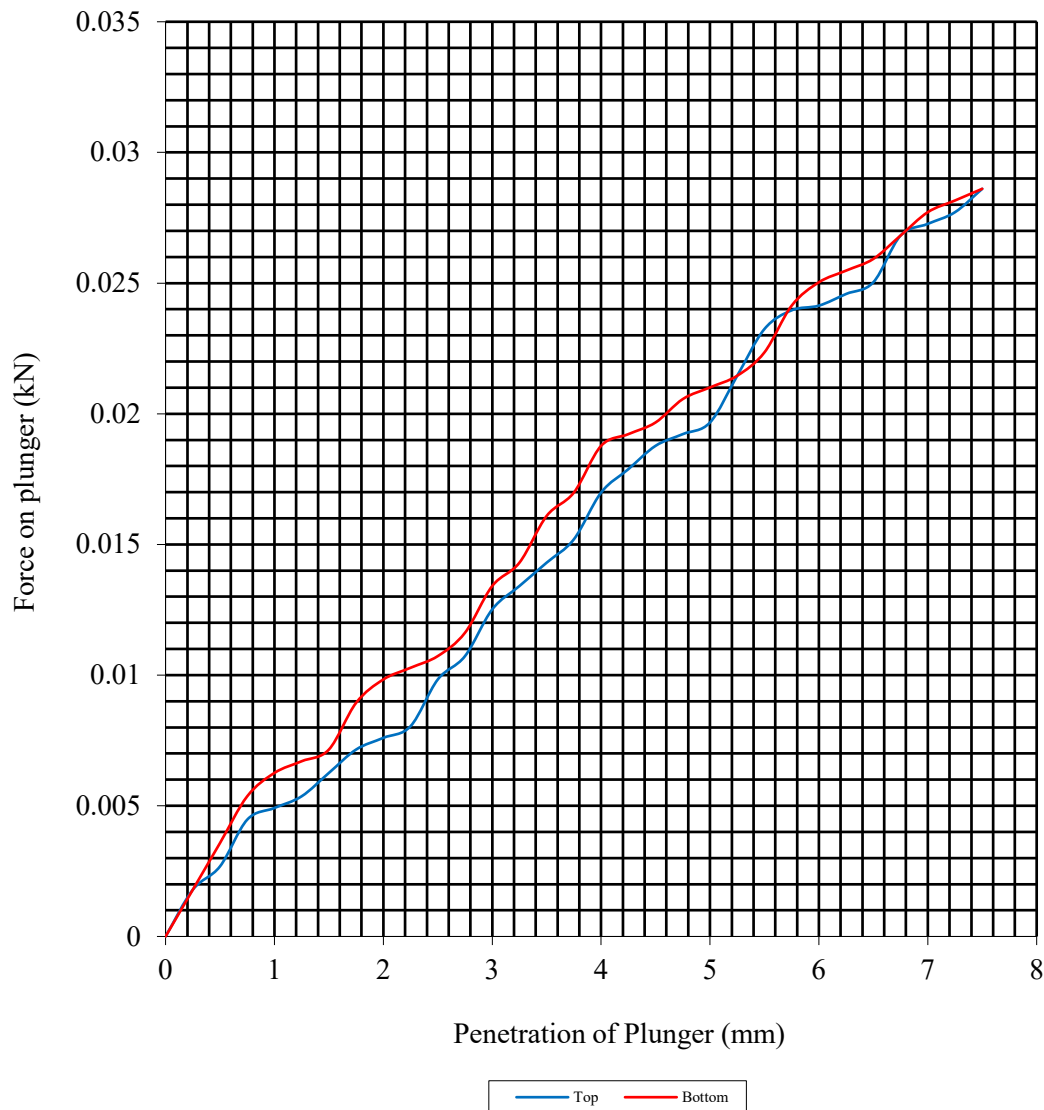
Hole Number: BH08

Top Depth (m): 3.50

Sample Number: 6

Base Depth (m): 4.50

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	22	Surcharge Kg:	4.00	Sample Top	22	Sample Top	0.1
Bulk Density Mg/m3:	1.97	Soaking Time hrs	0	Sample Bottom	22	Sample Bottom	0.1
Dry Density Mg/m3:	1.61	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

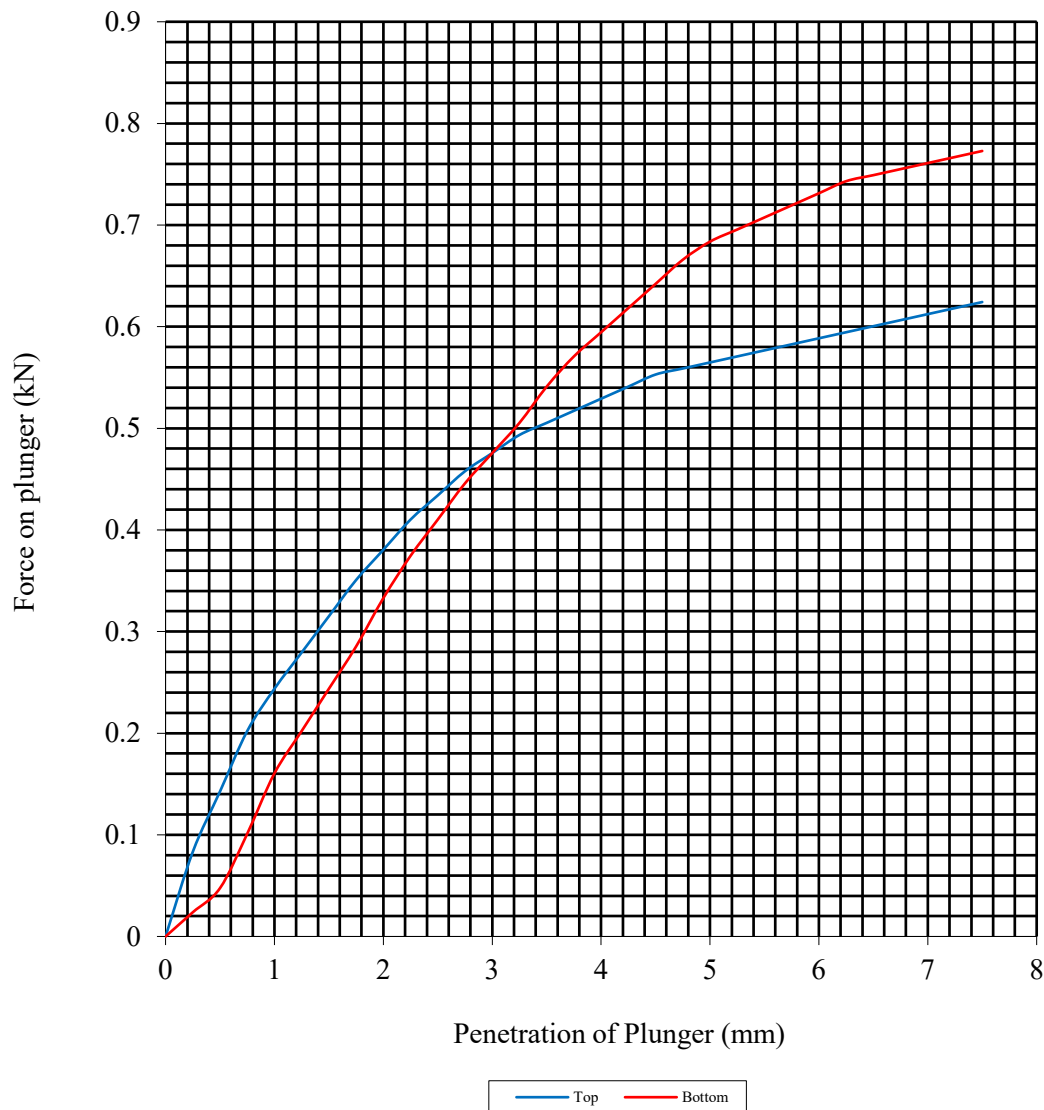
Hole Number: BH08

Top Depth (m): 9.00

Sample Number: 13

Base Depth (m): 9.45

Sample Type: SPTLS



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	18	Surcharge Kg:	4.00	Sample Top	18	Sample Top	3.3
Bulk Density Mg/m3:	2.04	Soaking Time hrs	0	Sample Bottom	19	Sample Bottom	3.4
Dry Density Mg/m3:	1.73	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



Cowm Top

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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

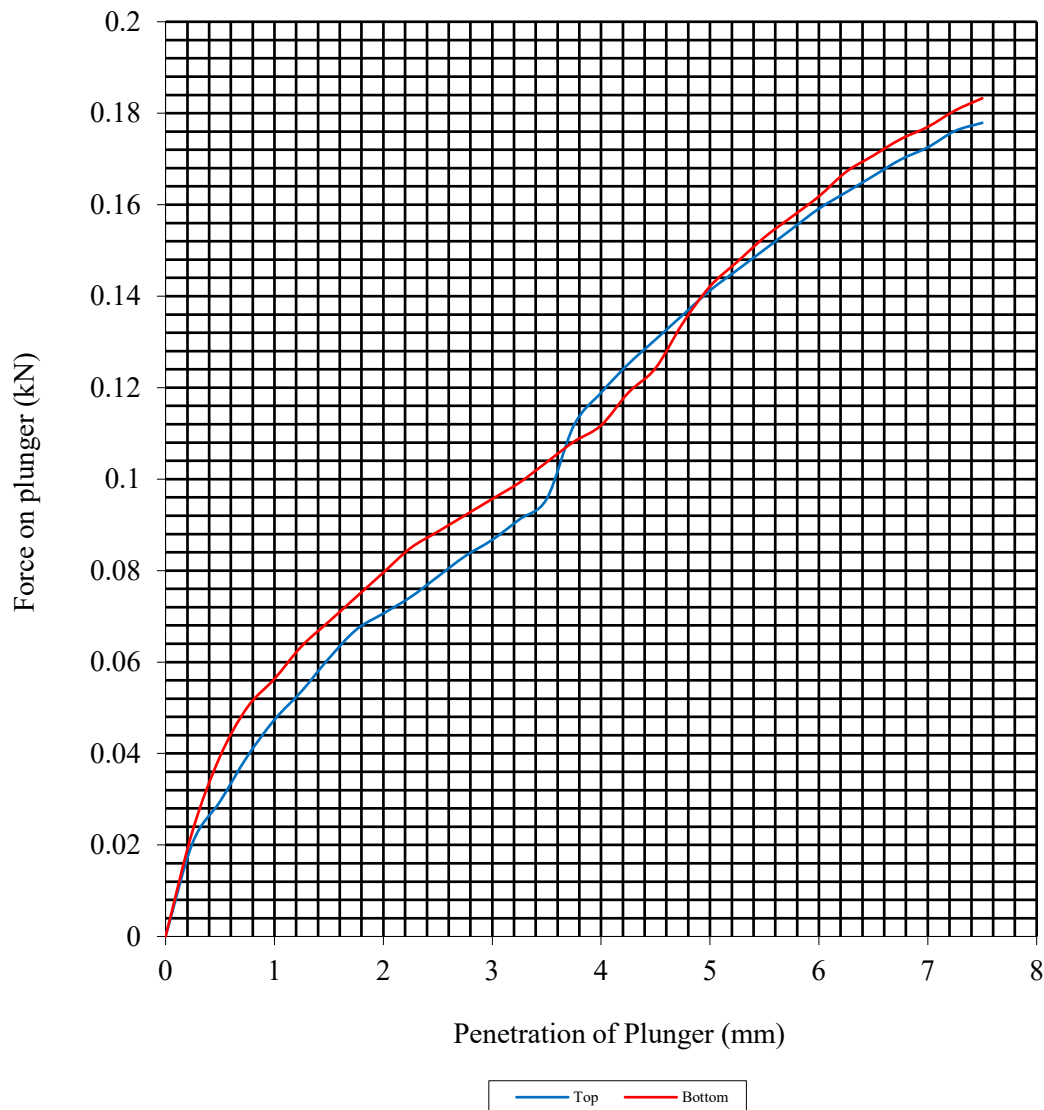
Hole Number: BH09

Top Depth (m): 4.00

Sample Number: 4

Base Depth (m): 4.45

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	22	Surcharge Kg:	4.00	Sample Top	22	Sample Top	0.7
Bulk Density Mg/m3:	2.06	Soaking Time hrs	0	Sample Bottom	23	Sample Bottom	0.7
Dry Density Mg/m3:	1.68	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

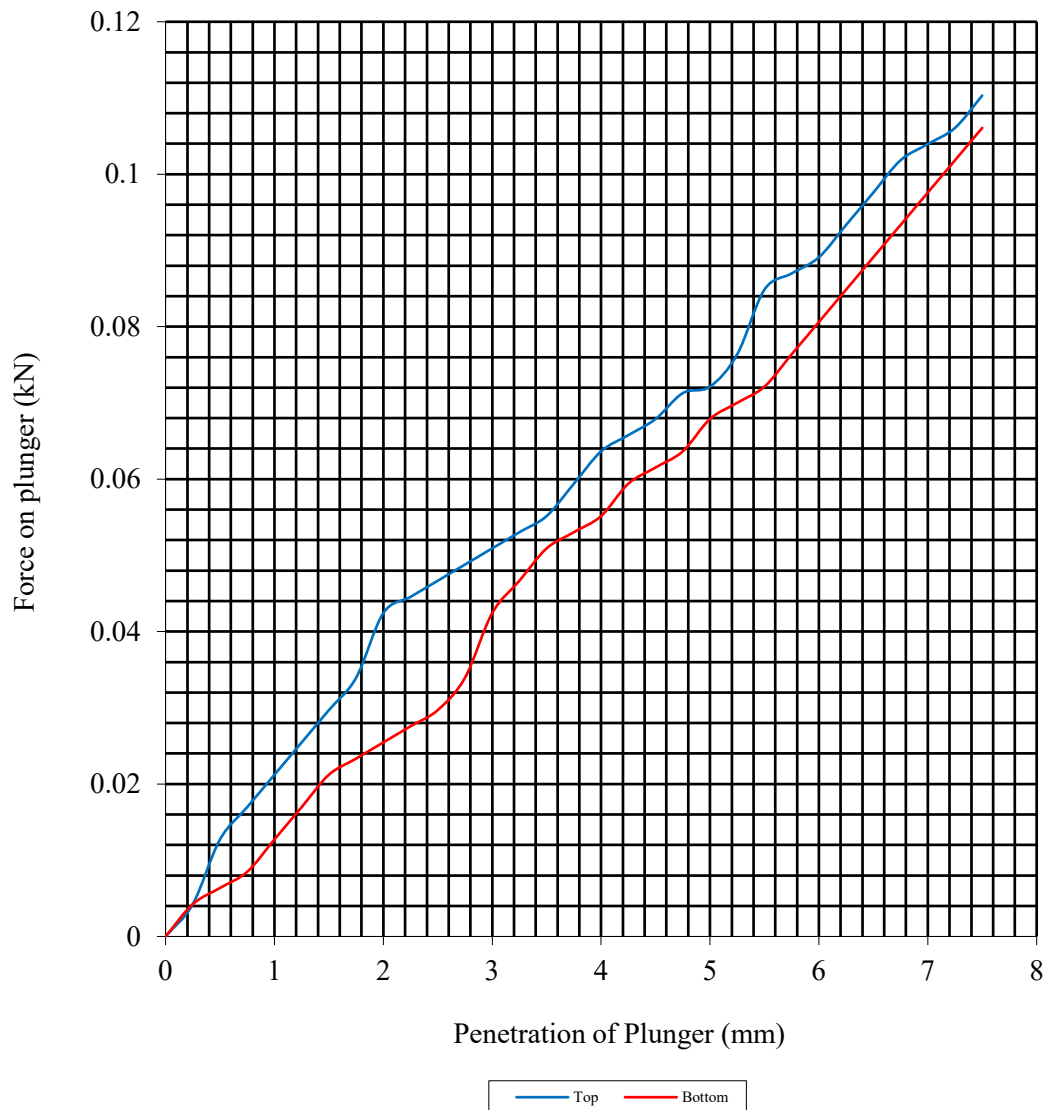
Hole Number: BH09

Top Depth (m): 8.00

Sample Number: 7

Base Depth (m): 8.45

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	26	Surcharge Kg:	4.00	Sample Top	26	Sample Top	0.4
Bulk Density Mg/m3:	1.97	Soaking Time hrs	0	Sample Bottom	26	Sample Bottom	0.3
Dry Density Mg/m3:	1.56	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

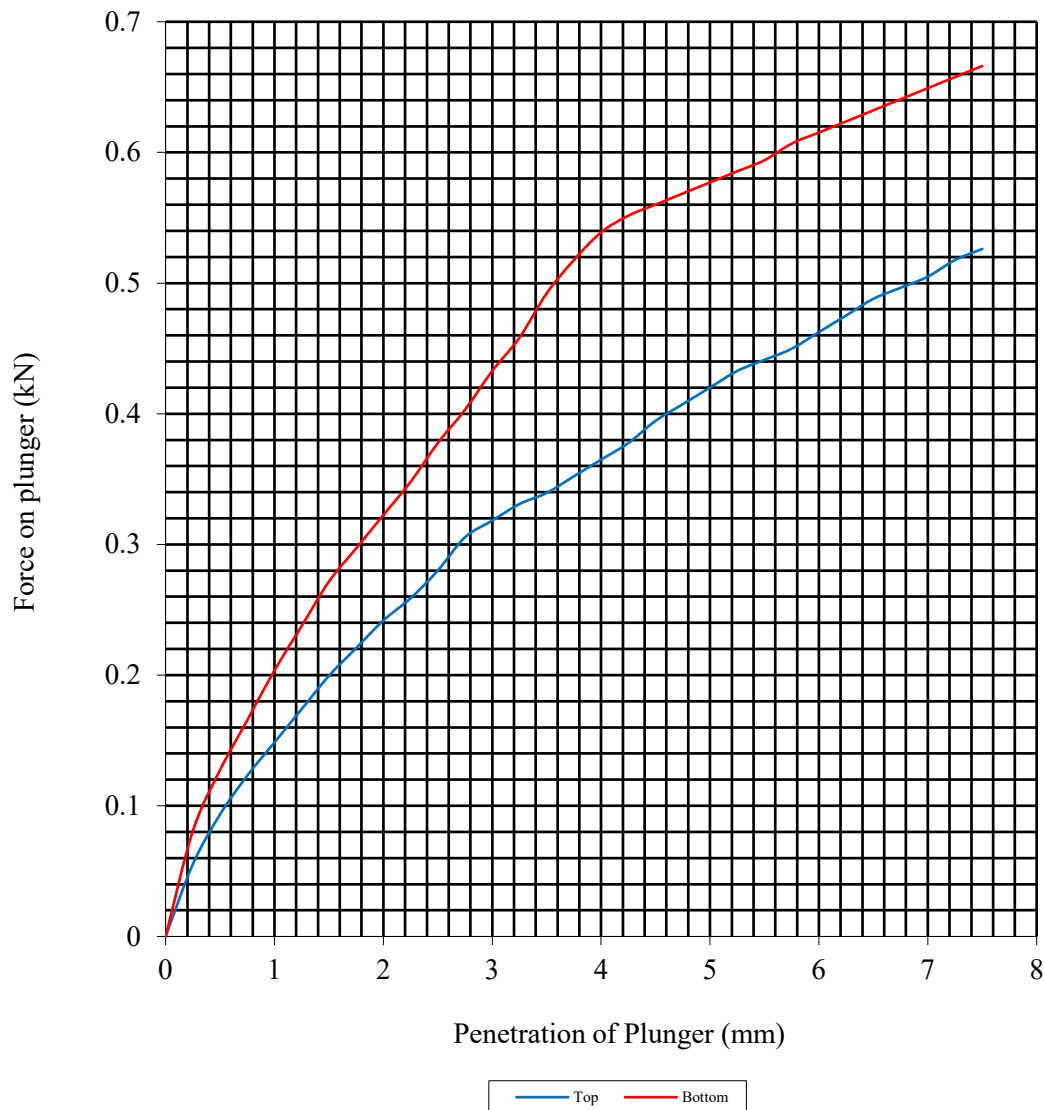
Hole Number: BH10

Top Depth (m): 4.50

Sample Number: 6

Base Depth (m): 4.95

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	20	Surcharge Kg:	4.00	Sample Top	20	Sample Top	2.1
Bulk Density Mg/m3:	2.08	Soaking Time hrs	0	Sample Bottom	20	Sample Bottom	2.9
Dry Density Mg/m3:	1.73	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

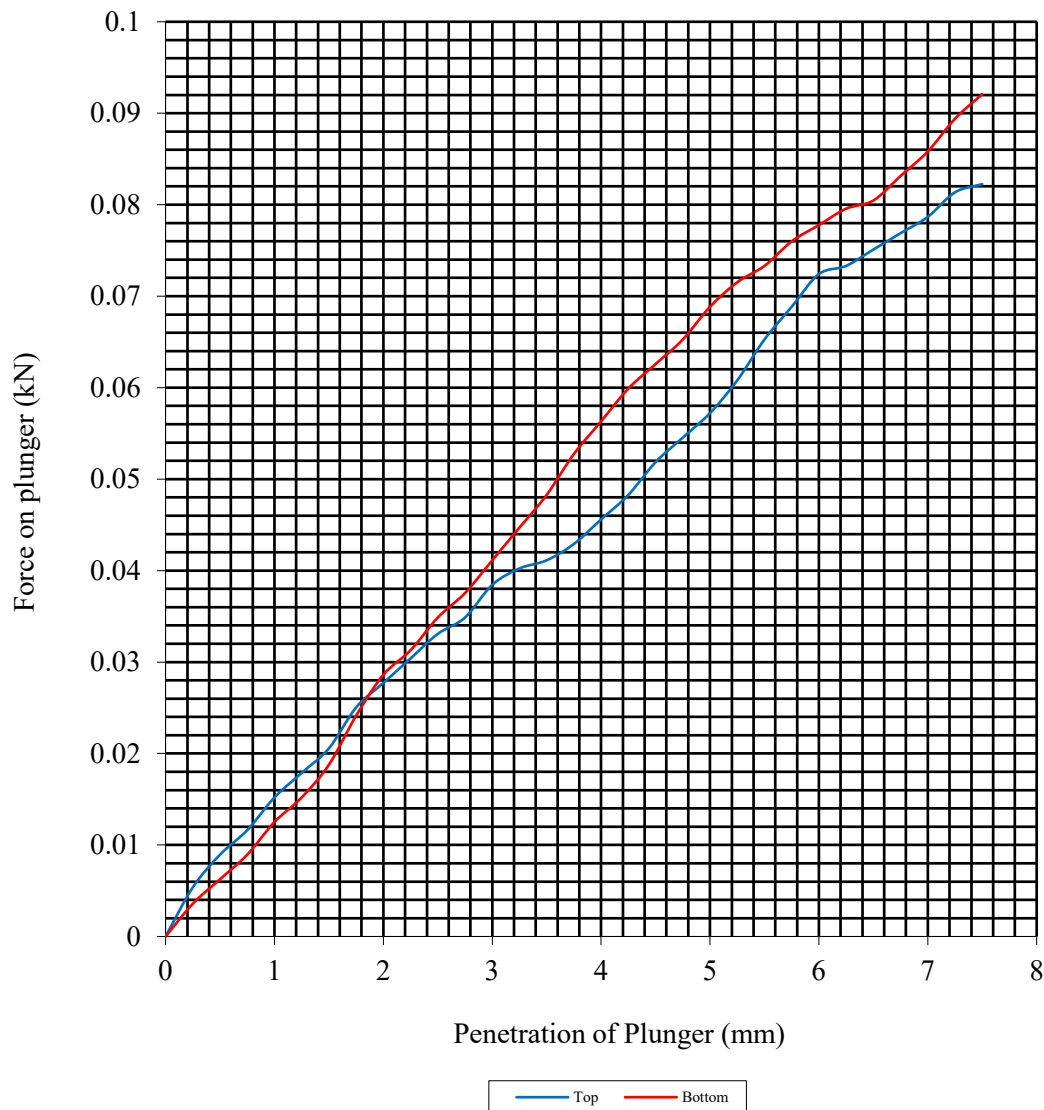
Hole Number: BH10

Top Depth (m): 9.00

Sample Number: 13

Base Depth (m): 9.45

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	19	Surcharge Kg:	4.00	Sample Top	19	Sample Top	0.3
Bulk Density Mg/m3:	2.01	Soaking Time hrs	0	Sample Bottom	19	Sample Bottom	0.3
Dry Density Mg/m3:	1.69	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

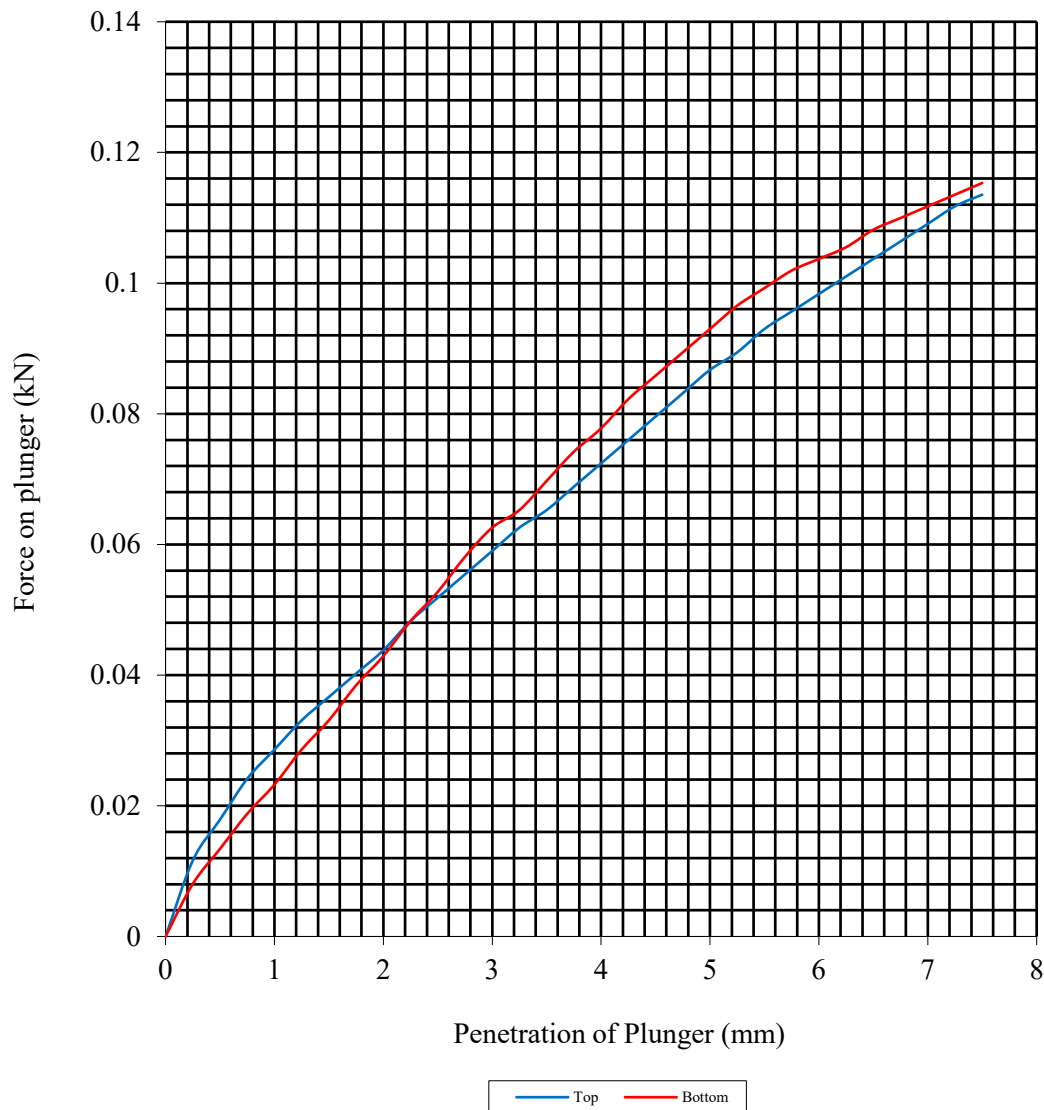
Hole Number: BH11

Top Depth (m): 6.00

Sample Number: 11

Base Depth (m): 6.45

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	22	Surcharge Kg:	4.00	Sample Top	22	Sample Top	0.4
Bulk Density Mg/m3:	2.04	Soaking Time hrs	0	Sample Bottom	23	Sample Bottom	0.5
Dry Density Mg/m3:	1.67	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

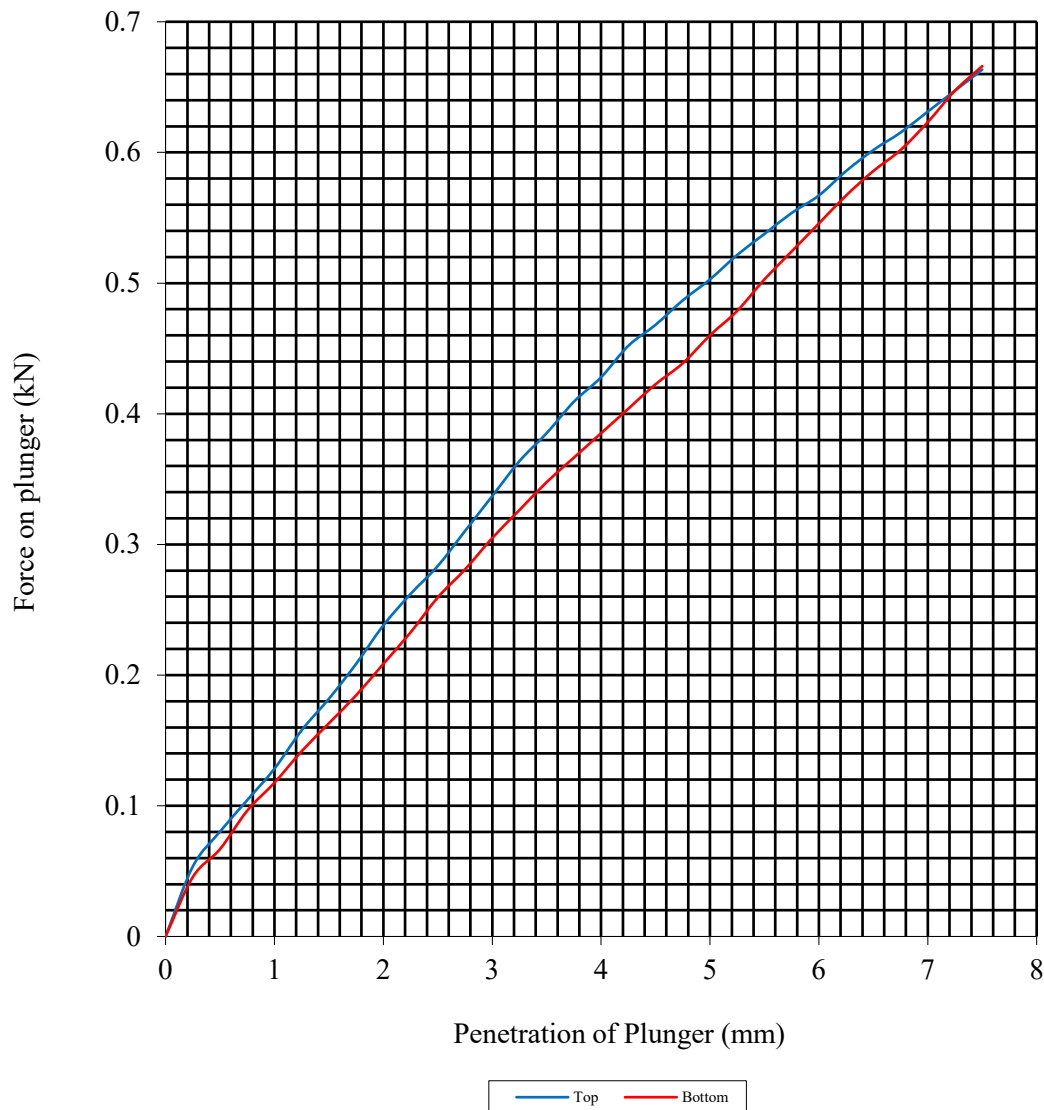
Hole Number: TP10

Top Depth (m): 3.00

Sample Number: 4

Base Depth (m):

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	18	Surcharge Kg:	4.00	Sample Top	18	Sample Top	2.5
Bulk Density Mg/m3:	2.12	Soaking Time hrs	0	Sample Bottom	18	Sample Bottom	2.3
Dry Density Mg/m3:	1.80	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

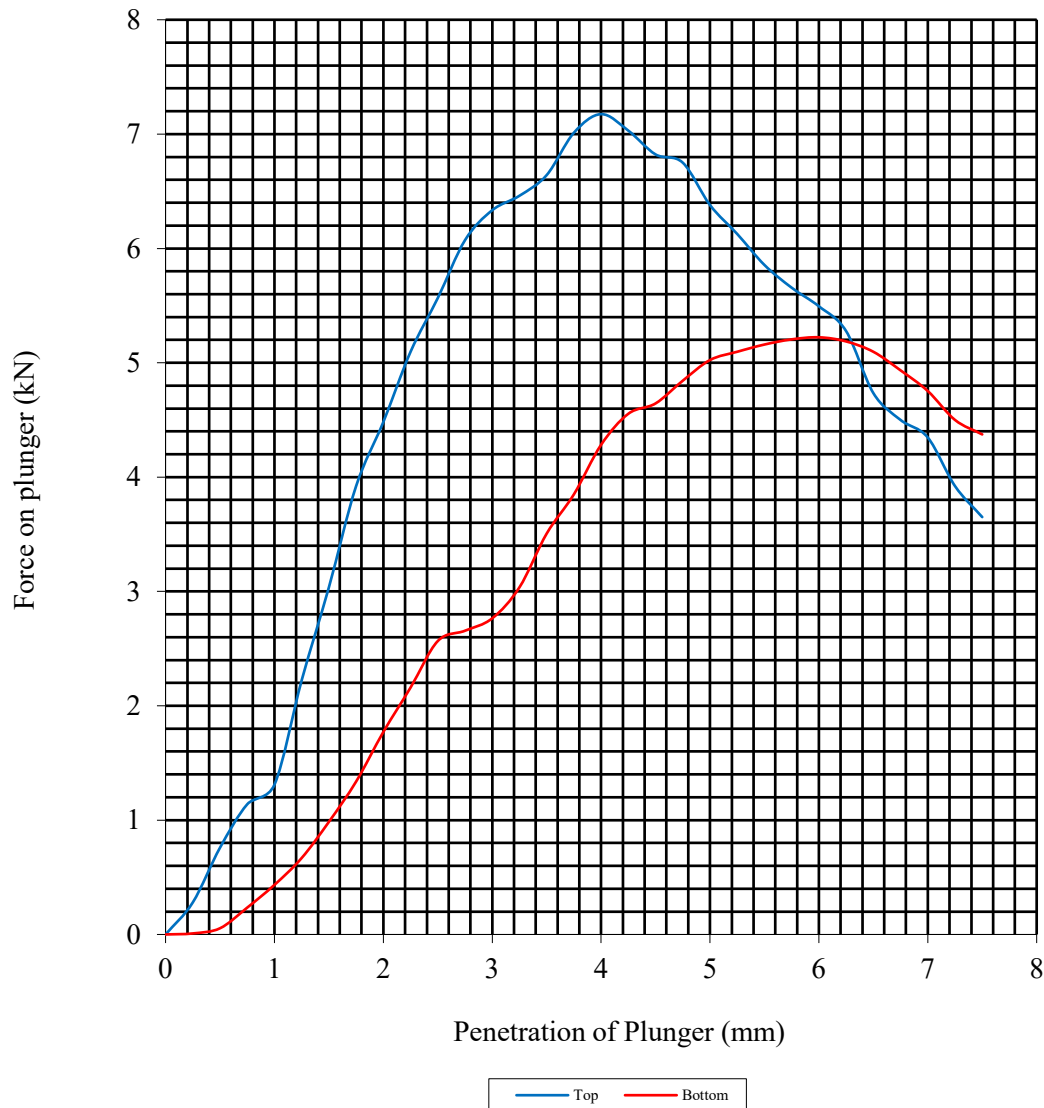
Hole Number: TP22

Top Depth (m): 2.80

Sample Number: 4

Base Depth (m):

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	6.4	Surcharge Kg:	4.00	Sample Top	6.3	Sample Top	42.2
Bulk Density Mg/m3:	1.78	Soaking Time hrs	0	Sample Bottom	7.1	Sample Bottom	25.1
Dry Density Mg/m3:	1.68	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:		0					
Compaction Conditions		2.5kg					



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STV5936

MOISTURE CONDITION VALUE CALIBRATION

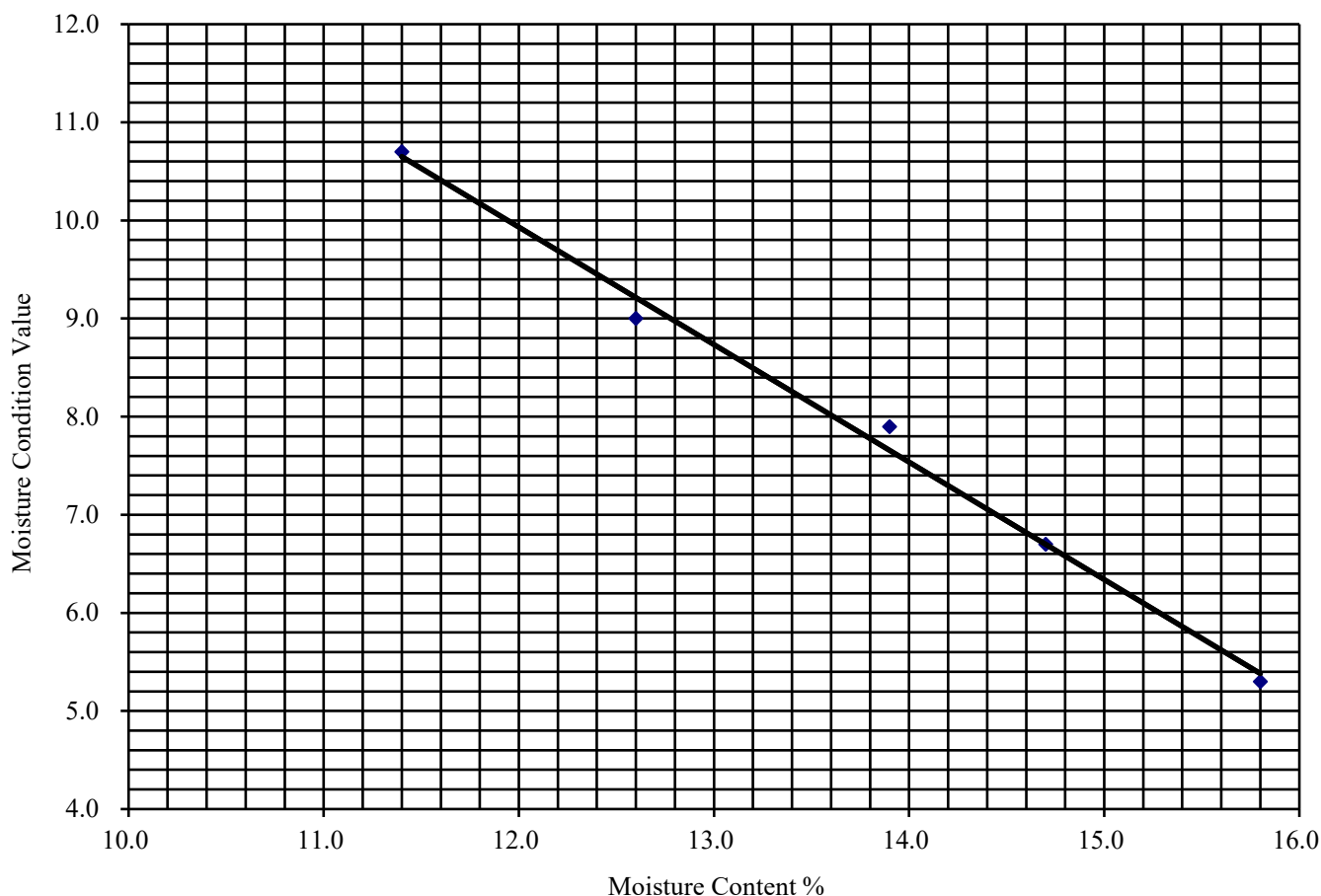
BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH01 Top Depth (m): 3.00

Sample Number: 12 Base Depth (m): 3.45

Sample Type: B

Initial Moisture Content (%):	15
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	11.4	12.6	13.9	14.7	15.8
MCV	10.7	9.0	7.9	6.7	5.3



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

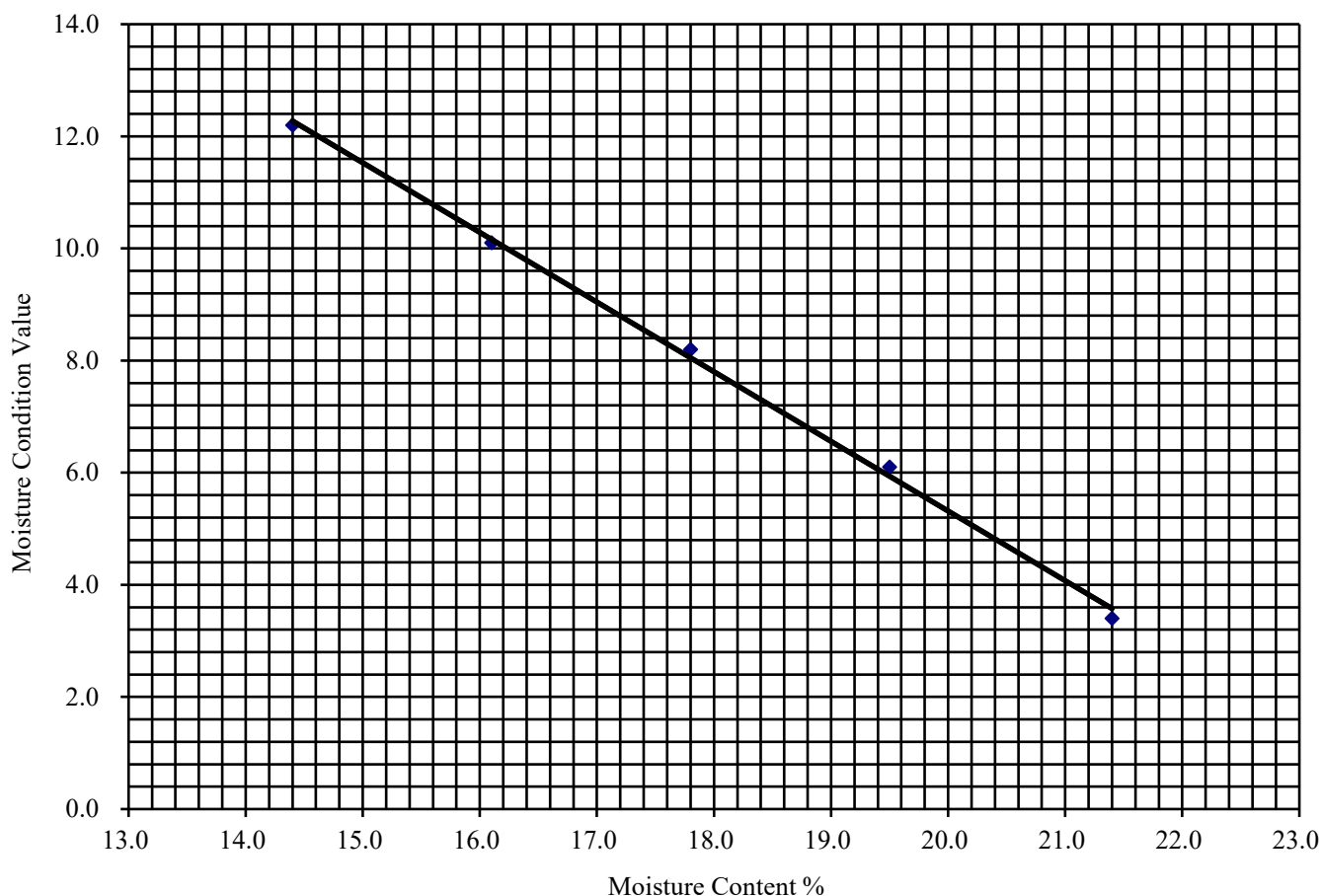
BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH02 Top Depth (m): 2.00

Sample Number: 4 Base Depth (m): 2.50

Sample Type: B

Initial Moisture Content (%):	26
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	14.4	16.1	17.8	19.5	21.4
MCV	12.2	10.1	8.2	6.1	3.4



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

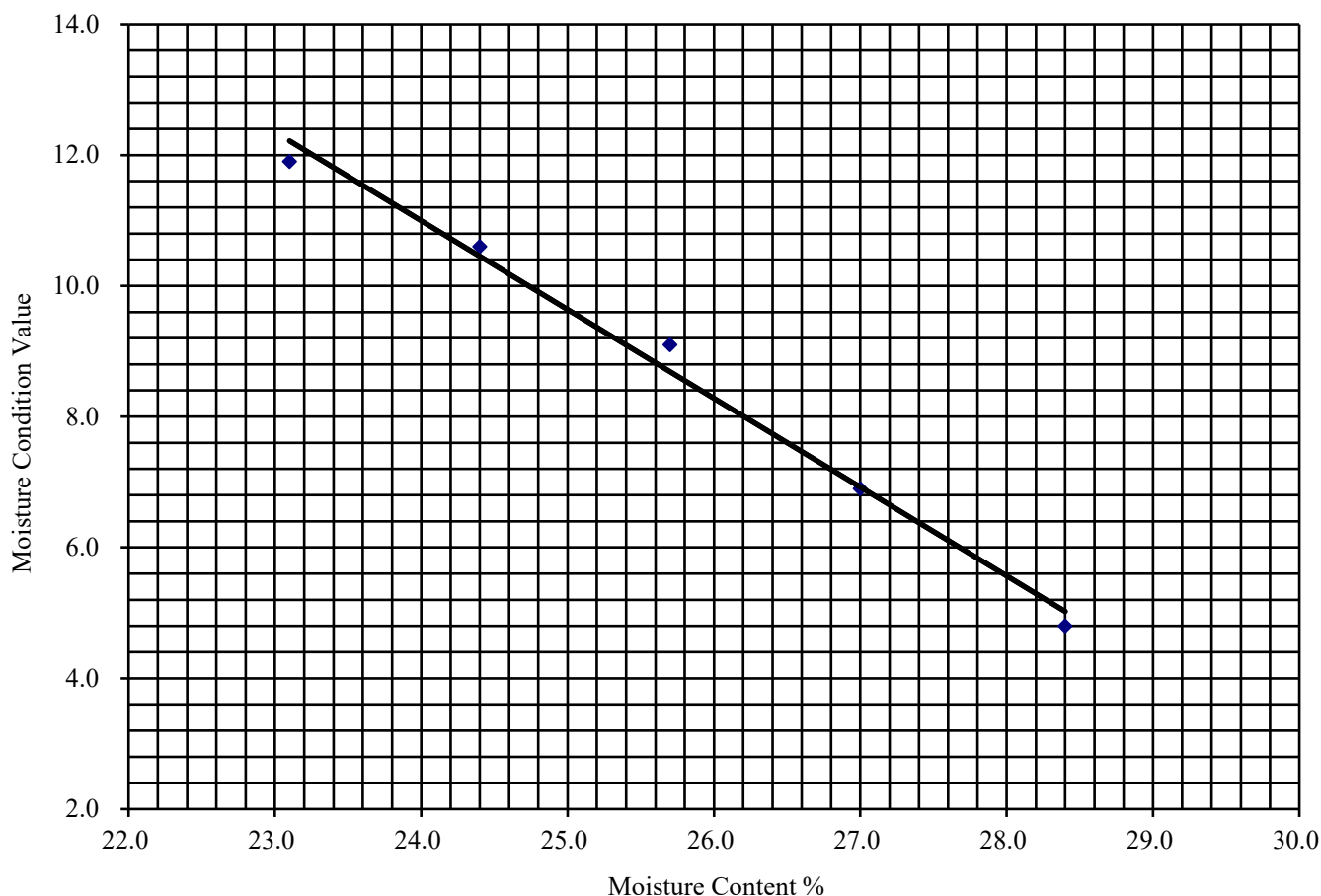
BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH02 Top Depth (m): 11.00

Sample Number: 17 Base Depth (m): 11.50

Sample Type: B

Initial Moisture Content (%):	26
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	23.1	24.4	25.7	27.0	28.4
MCV	11.9	10.6	9.1	6.9	4.8



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH03

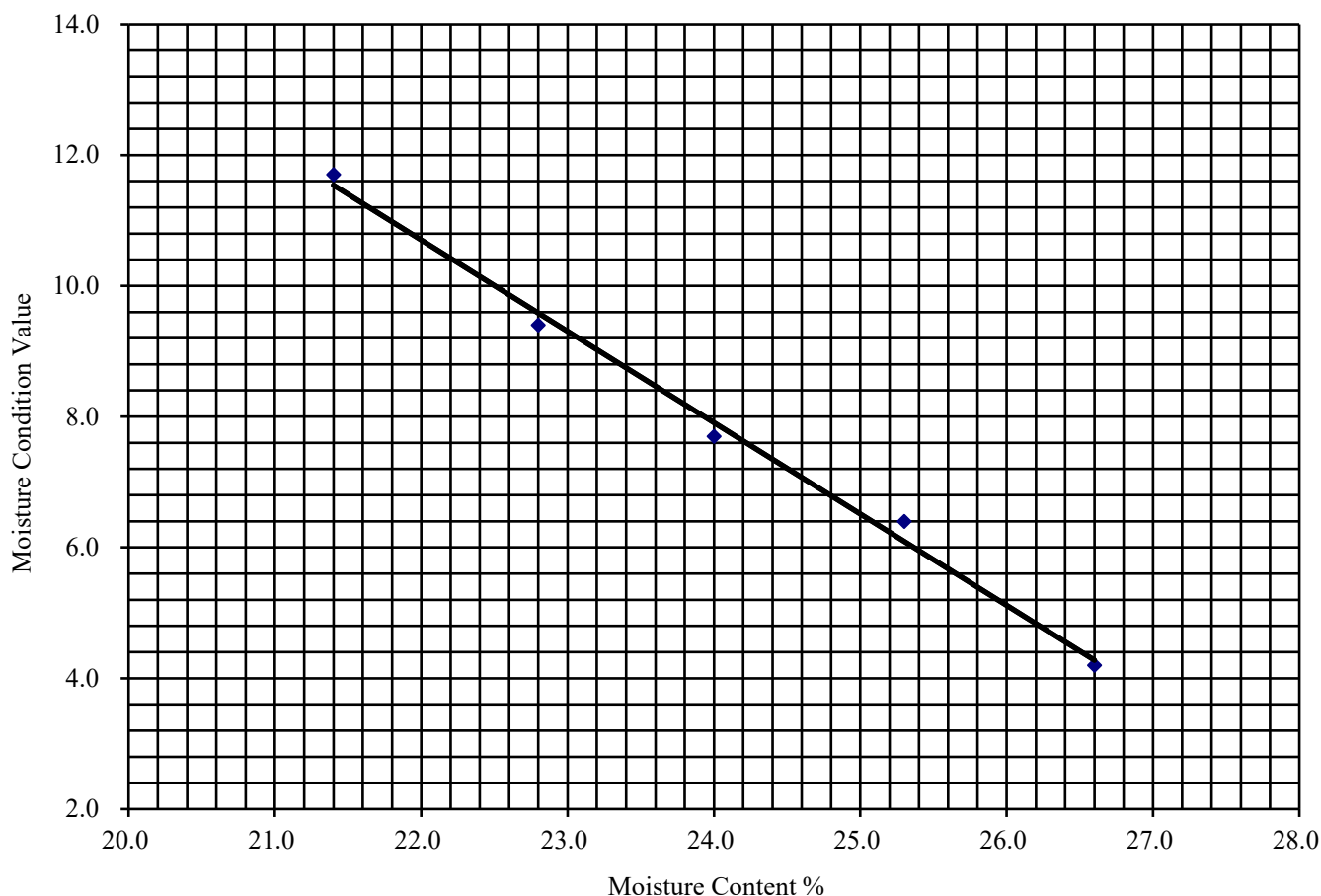
Top Depth (m): 1.70

Sample Number: 6

Base Depth (m): 2.00

Sample Type: B

Initial Moisture Content (%):	25
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	21.4	22.8	24.0	25.3	26.6
MCV	11.7	9.4	7.7	6.4	4.2



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE

BS1377 : Part 4 : 1990 Clause 5.4

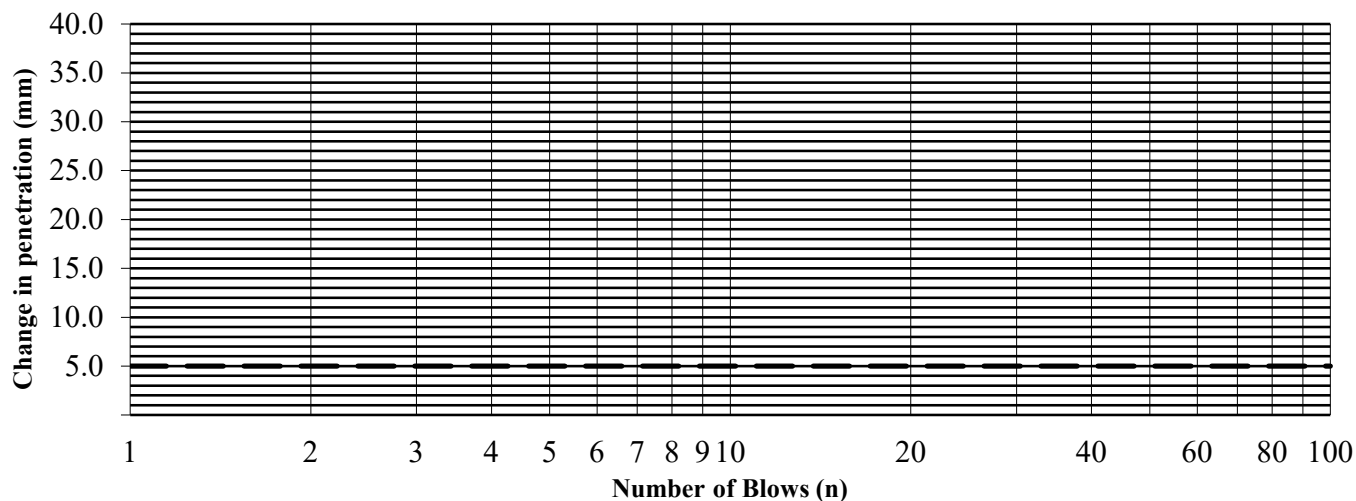
Hole Number: BH03 Top Depth (m): 6.50

Sample Number: 14 Base Depth (m): 7.00

Sample Type: B

Material Retained on the 20mm BS Test Sieve (%):	0
Interpretation based on steepest straight line intercept with 5mm change in penetration.	

MCV Determination



Blows (N)	Penetration (mm)	n to 4n (mm)
1	41.8	1.1
2	41.4	
3	40.6	
4	40.7	
6		
8		
12		
16		
24		
32		
48		
64		
96		
128		
192		
256		

Test Results.

Moisture Content (%)	19
MCV	<1.0



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

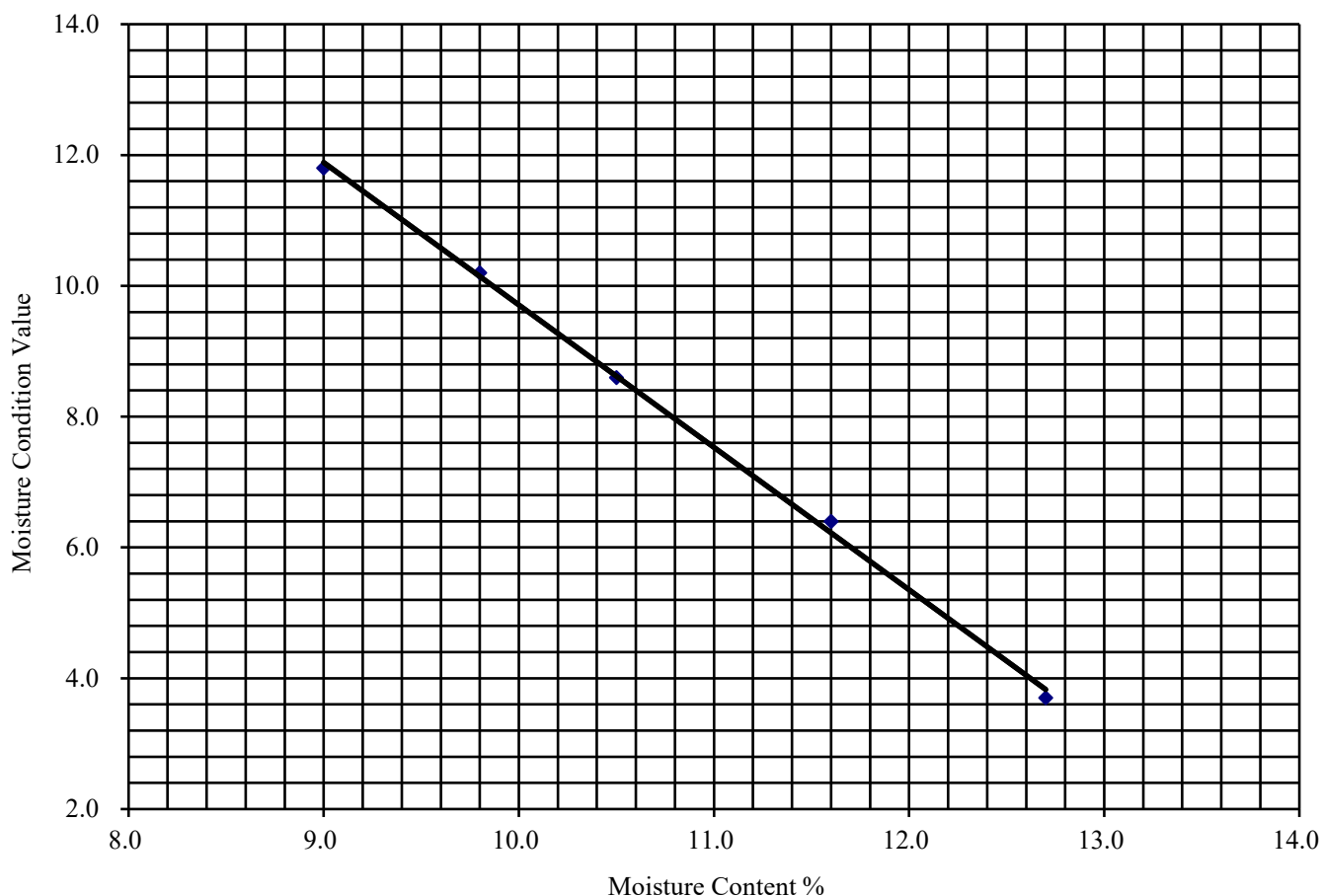
BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH03 Top Depth (m): 9.50

Sample Number: 16 Base Depth (m): 10.00

Sample Type: B

Initial Moisture Content (%):	12
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	9.0	9.8	10.5	11.6	12.7
MCV	11.8	10.2	8.6	6.4	3.7



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE

BS1377 : Part 4 : 1990 Clause 5.4

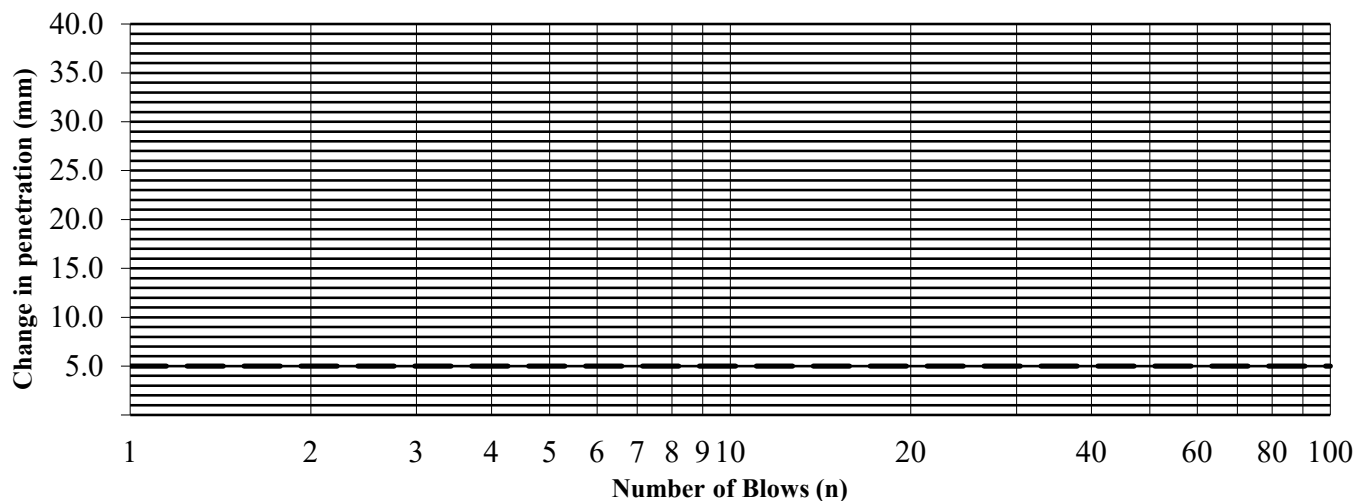
Hole Number: BH05 Top Depth (m): 8.00

Sample Number: 17 Base Depth (m): 8.45

Sample Type: B

Material Retained on the 20mm BS Test Sieve (%):	0
Interpretation based on steepest straight line intercept with 5mm change in penetration.	

MCV Determination



Blows (N)	Penetration (mm)	n to 4n (mm)
1	47.9	3.0
2	47.0	
3	46.4	
4	44.9	
6		
8		
12		
16		
24		
32		
48		
64		
96		
128		
192		
256		

Test Results.

Moisture Content (%)	25
MCV	<1.0



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE

BS1377 : Part 4 : 1990 Clause 5.4

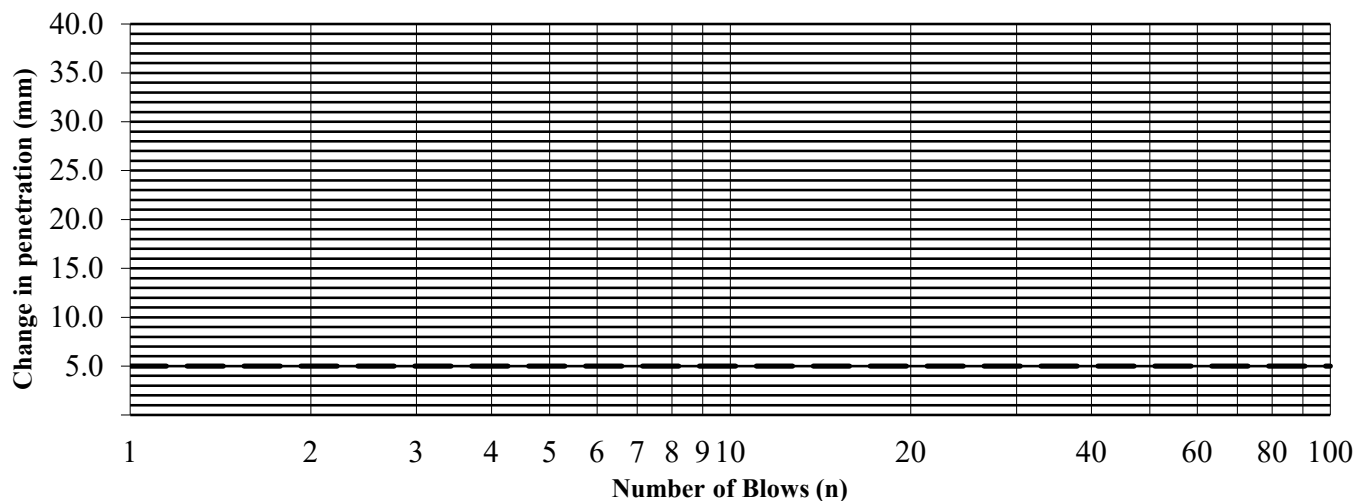
Hole Number: BH05 Top Depth (m): 12.50

Sample Number: 20 Base Depth (m): 12.95

Sample Type: B

Material Retained on the 20mm BS Test Sieve (%):	0
Interpretation based on steepest straight line intercept with 5mm change in penetration.	

MCV Determination



Blows (N)	Penetration (mm)	n to 4n (mm)
1	41.6	2.4
2	39.9	
3	39.4	
4	39.2	
6		
8		
12		
16		
24		
32		
48		
64		
96		
128		
192		
256		

Test Results.

Moisture Content (%)	23
MCV	<1.0



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH06

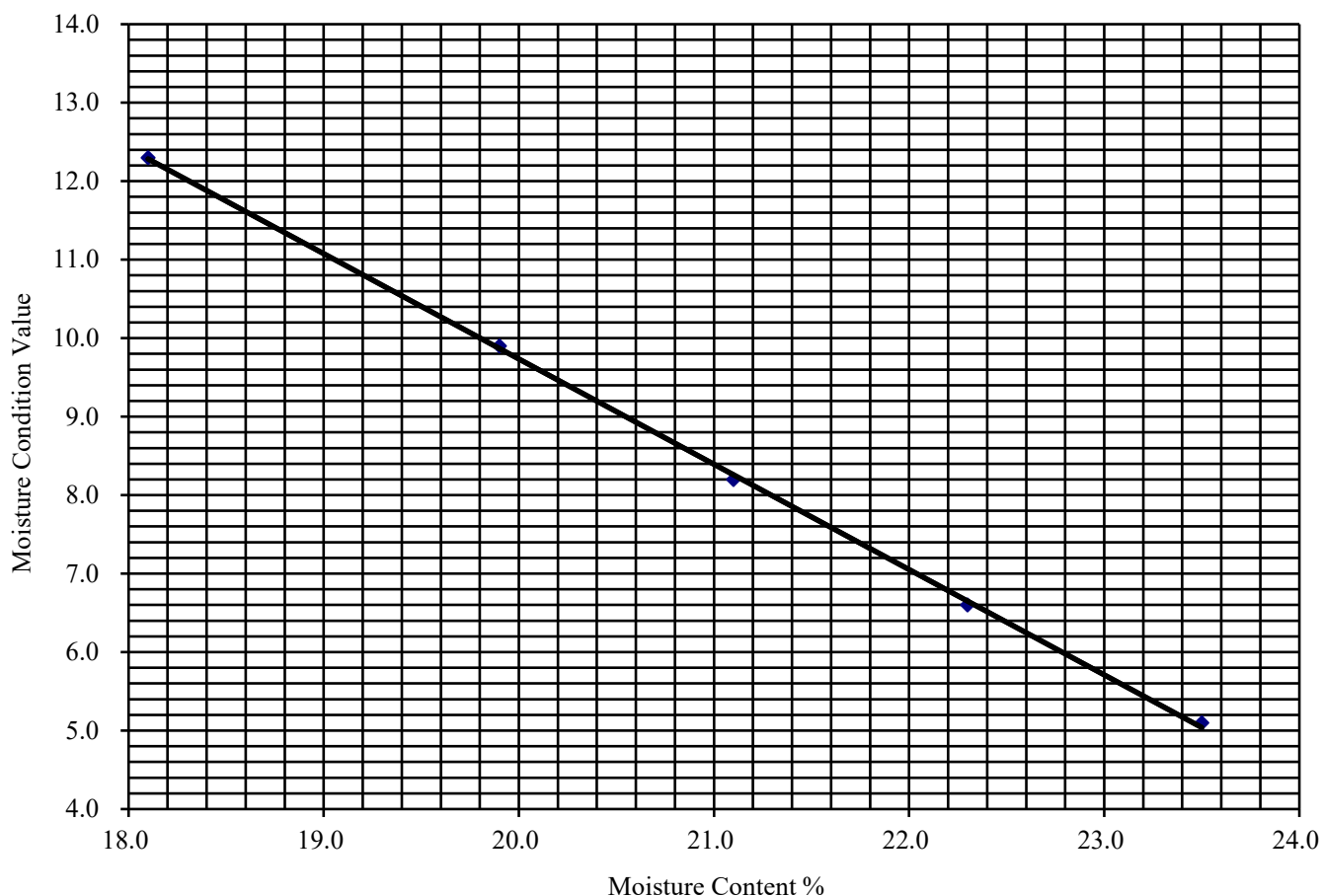
Top Depth (m): 1.50

Sample Number: 3

Base Depth (m): 1.95

Sample Type: B

Initial Moisture Content (%):	22
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	18.1	19.9	21.1	22.3	23.5
MCV	12.3	9.9	8.2	6.6	5.1



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

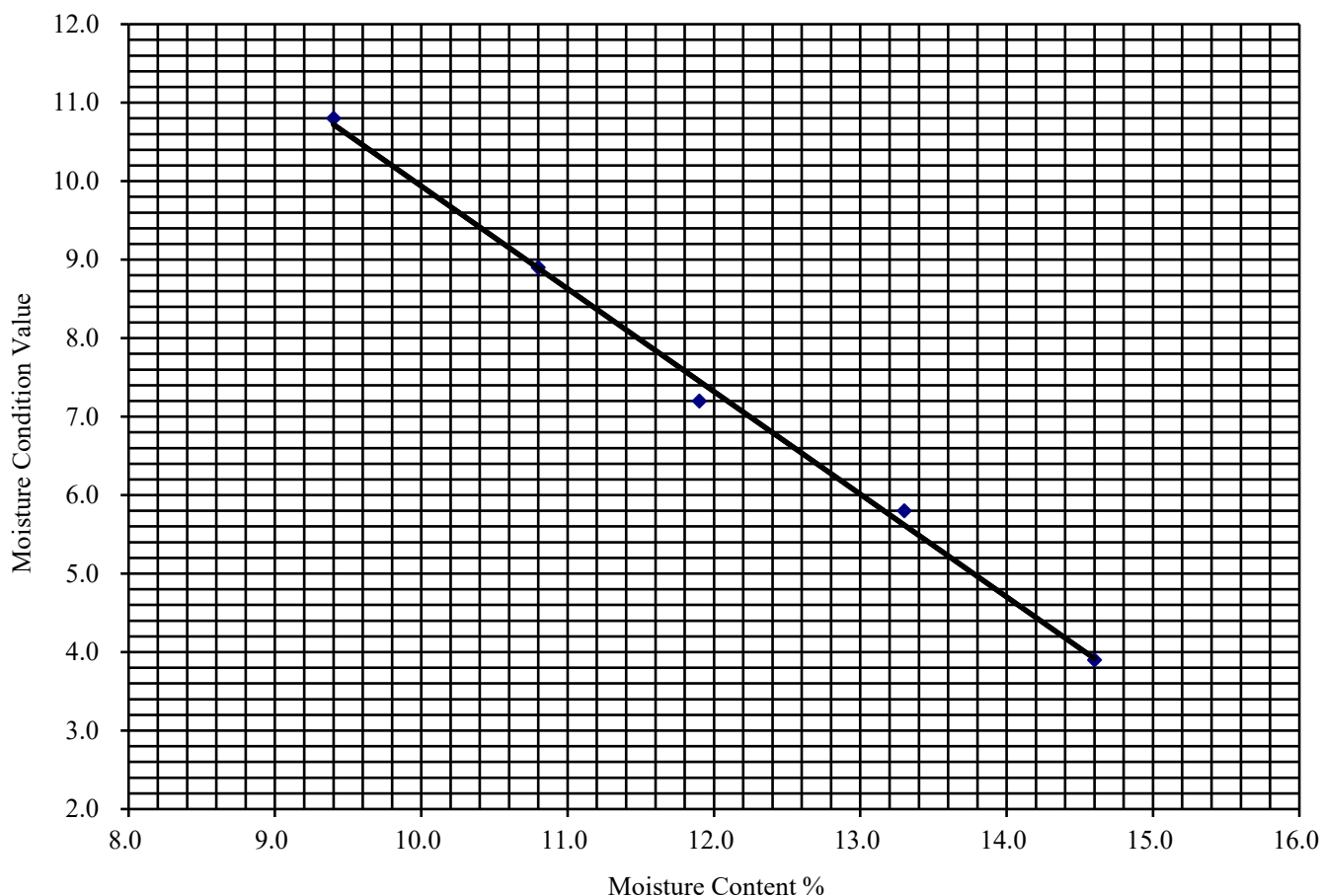
BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH06 Top Depth (m): 4.50

Sample Number: 9 Base Depth (m): 4.95

Sample Type: B

Initial Moisture Content (%):	13
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	9.4	10.8	11.9	13.3	14.6
MCV	10.8	8.9	7.2	5.8	3.9



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE

BS1377 : Part 4 : 1990 Clause 5.4

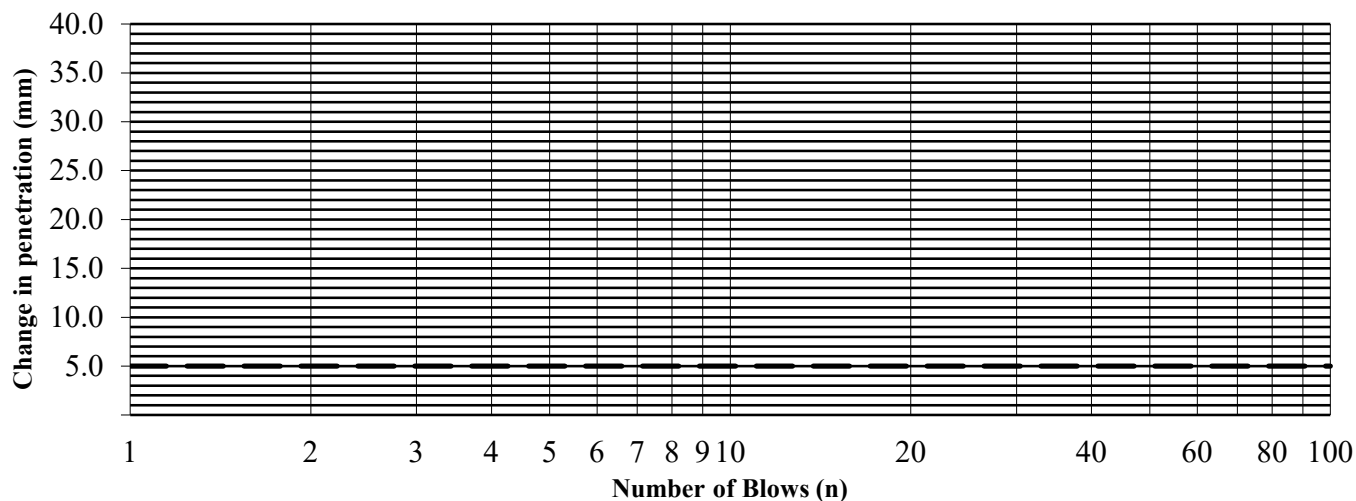
Hole Number: BH08 Top Depth (m): 2.00

Sample Number: 4 Base Depth (m): 3.00

Sample Type: B

Material Retained on the 20mm BS Test Sieve (%):	0
Interpretation based on steepest straight line intercept with 5mm change in penetration.	

MCV Determination



Blows (N)	Penetration (mm)	n to 4n (mm)
1	41.8	1.4
2	40.5	
3	40.5	
4	40.4	
6		
8		
12		
16		
24		
32		
48		
64		
96		
128		
192		
256		

Test Results.

Moisture Content (%)	24
MCV	<1.0



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE

BS1377 : Part 4 : 1990 Clause 5.4

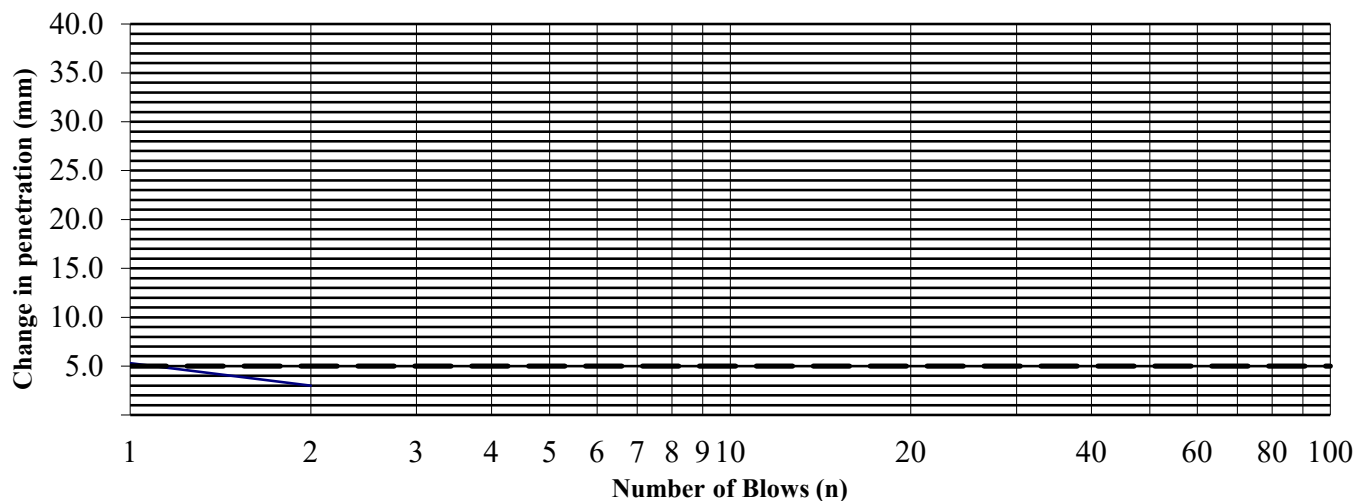
Hole Number: BH08 Top Depth (m): 6.00

Sample Number: 9 Base Depth (m): 7.50

Sample Type: B

Material Retained on the 20mm BS Test Sieve (%):	0
Interpretation based on steepest straight line intercept with 5mm change in penetration.	

MCV Determination



Blows (N)	Penetration (mm)	n to 4n (mm)
1	52.1	5.3
2	48.9	3.0
3	47.1	
4	46.8	
6	46.0	
8	45.9	
12		
16		
24		
32		
48		
64		
96		
128		
192		
256		

Test Results.

Moisture Content (%)	20
MCV	0.5



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH09

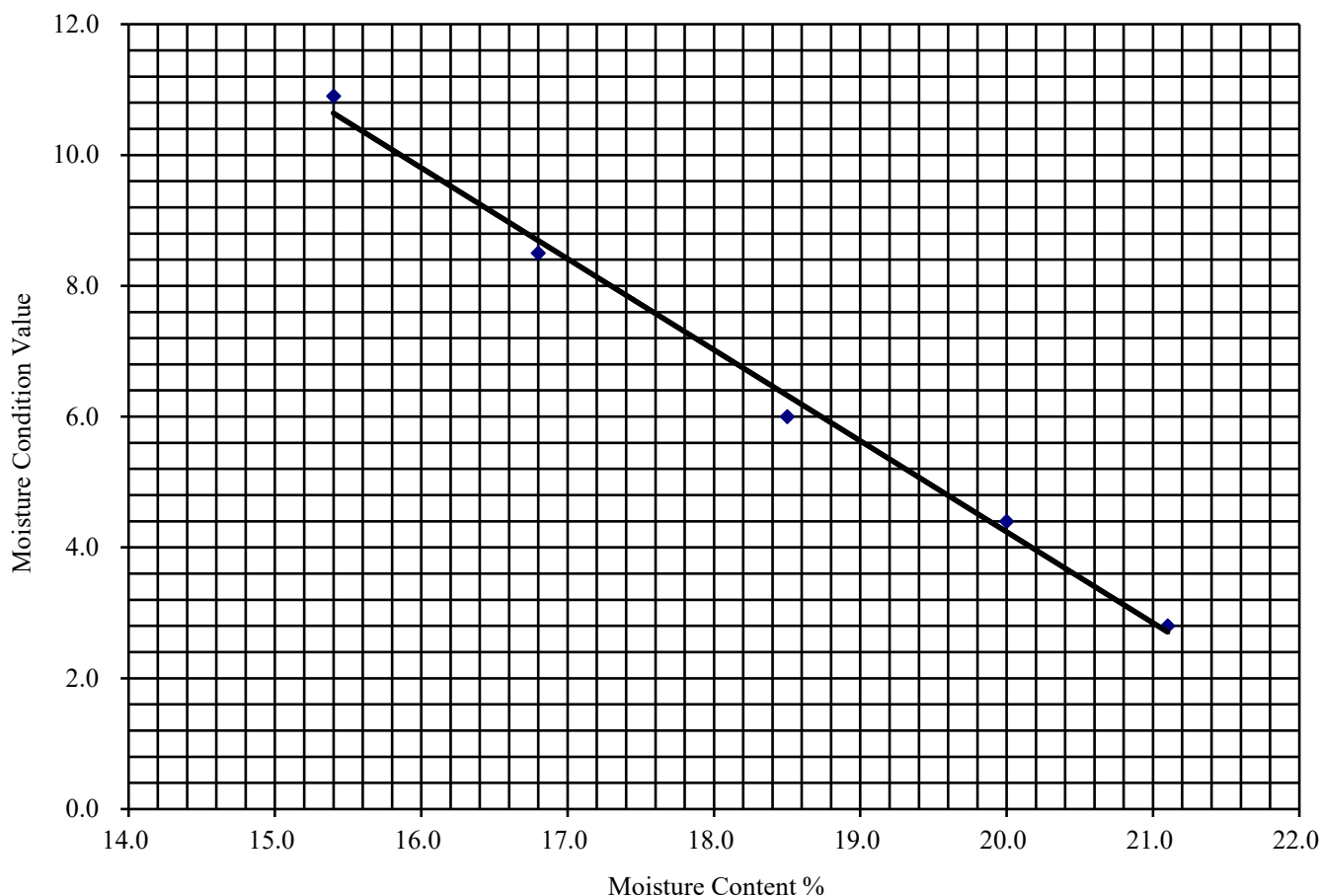
Top Depth (m): 4.00

Sample Number: 4

Base Depth (m): 4.45

Sample Type: B

Initial Moisture Content (%):	22
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	15.4	16.8	18.5	20.0	21.1
MCV	10.9	8.5	6.0	4.4	2.8



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE

BS1377 : Part 4 : 1990 Clause 5.4

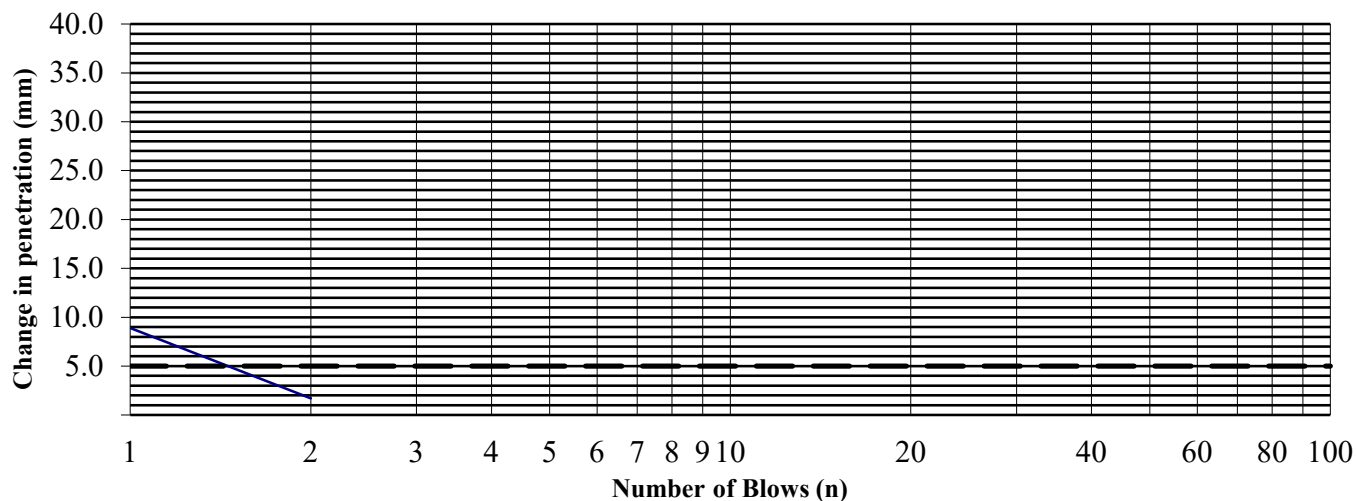
Hole Number: BH09 Top Depth (m): 6.50

Sample Number: 6 Base Depth (m): 6.95

Sample Type: B

Material Retained on the 20mm BS Test Sieve (%):	0
Interpretation based on steepest straight line intercept with 5mm change in penetration.	

MCV Determination



Blows (N)	Penetration (mm)	n to 4n (mm)
1	54.2	8.9
2	46.8	1.7
3	45.7	
4	45.3	
6	45.1	
8	45.1	
12		
16		
24		
32		
48		
64		
96		
128		
192		
256		

Test Results.

Moisture Content (%)	25
MCV	1.7



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

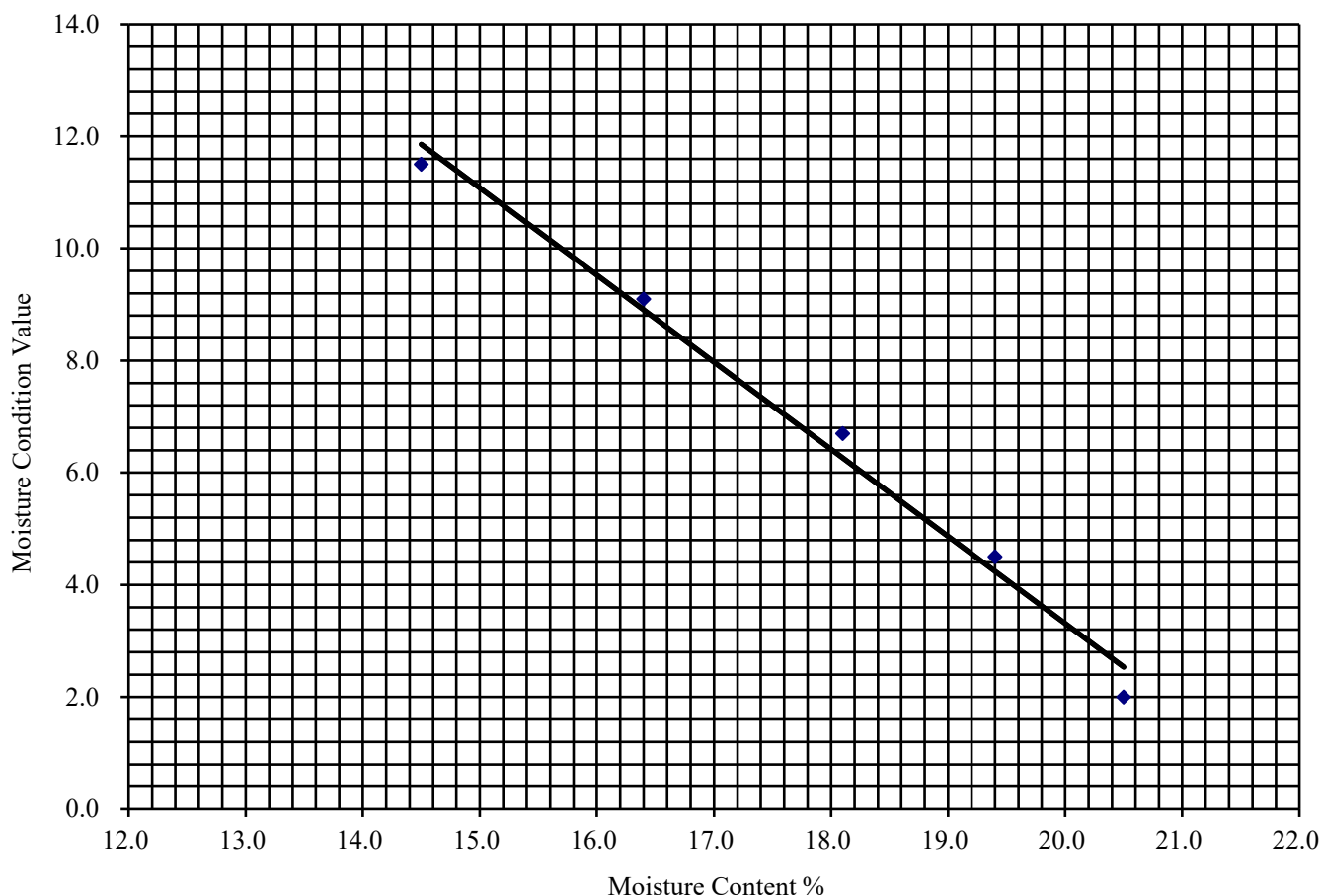
BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH09 Top Depth (m): 12.50

Sample Number: 9 Base Depth (m): 12.95

Sample Type: B

Initial Moisture Content (%):	23
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	14.5	16.4	18.1	19.4	20.5
MCV	11.5	9.1	6.7	4.5	2.0



Cowm Top

Contract No:
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MOISTURE CONDITION VALUE CALIBRATION

BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH10

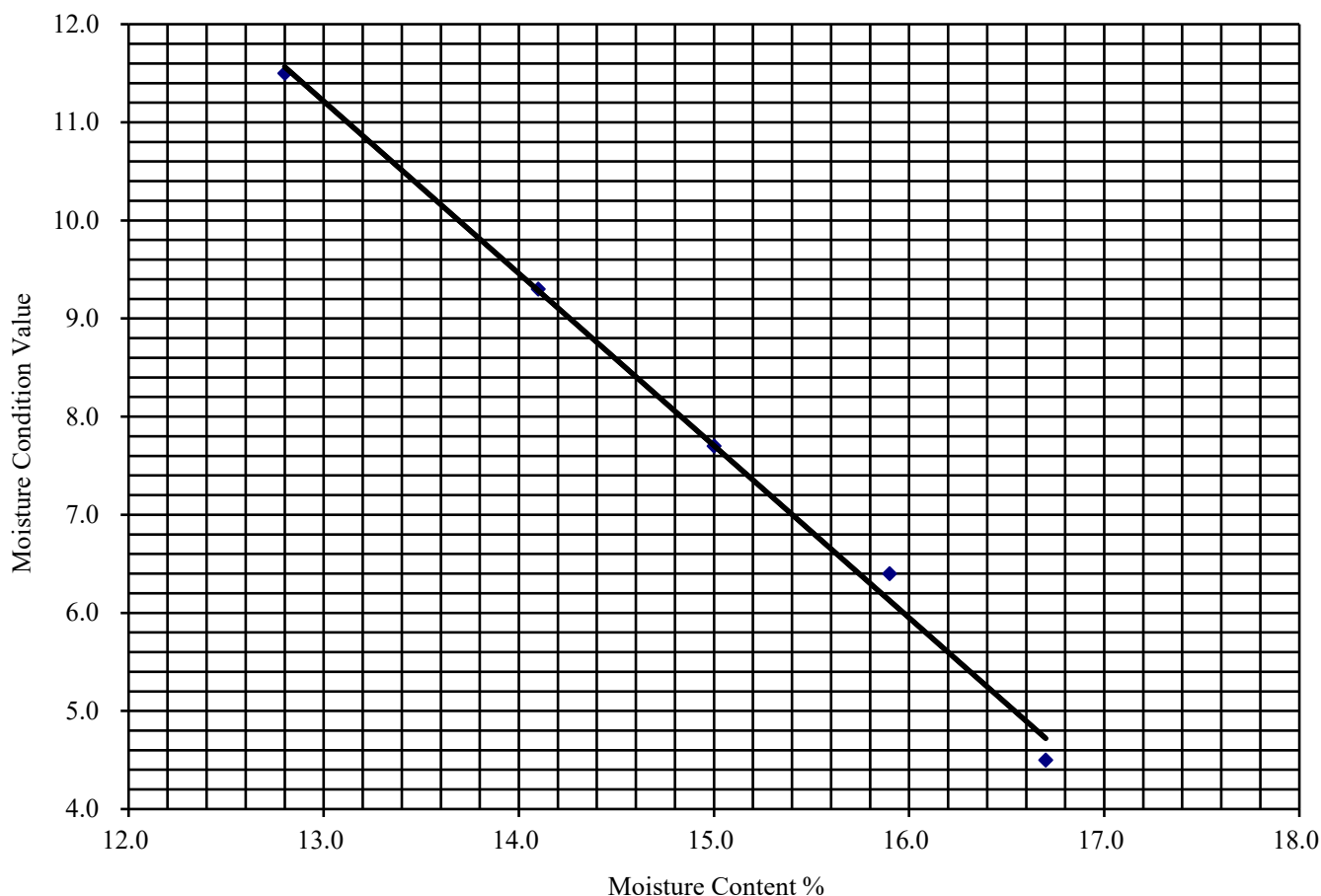
Top Depth (m): 1.50

Sample Number: 3

Base Depth (m): 1.95

Sample Type: B

Initial Moisture Content (%):	17
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	12.8	14.1	15.0	15.9	16.7
MCV	11.5	9.3	7.7	6.4	4.5



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH10

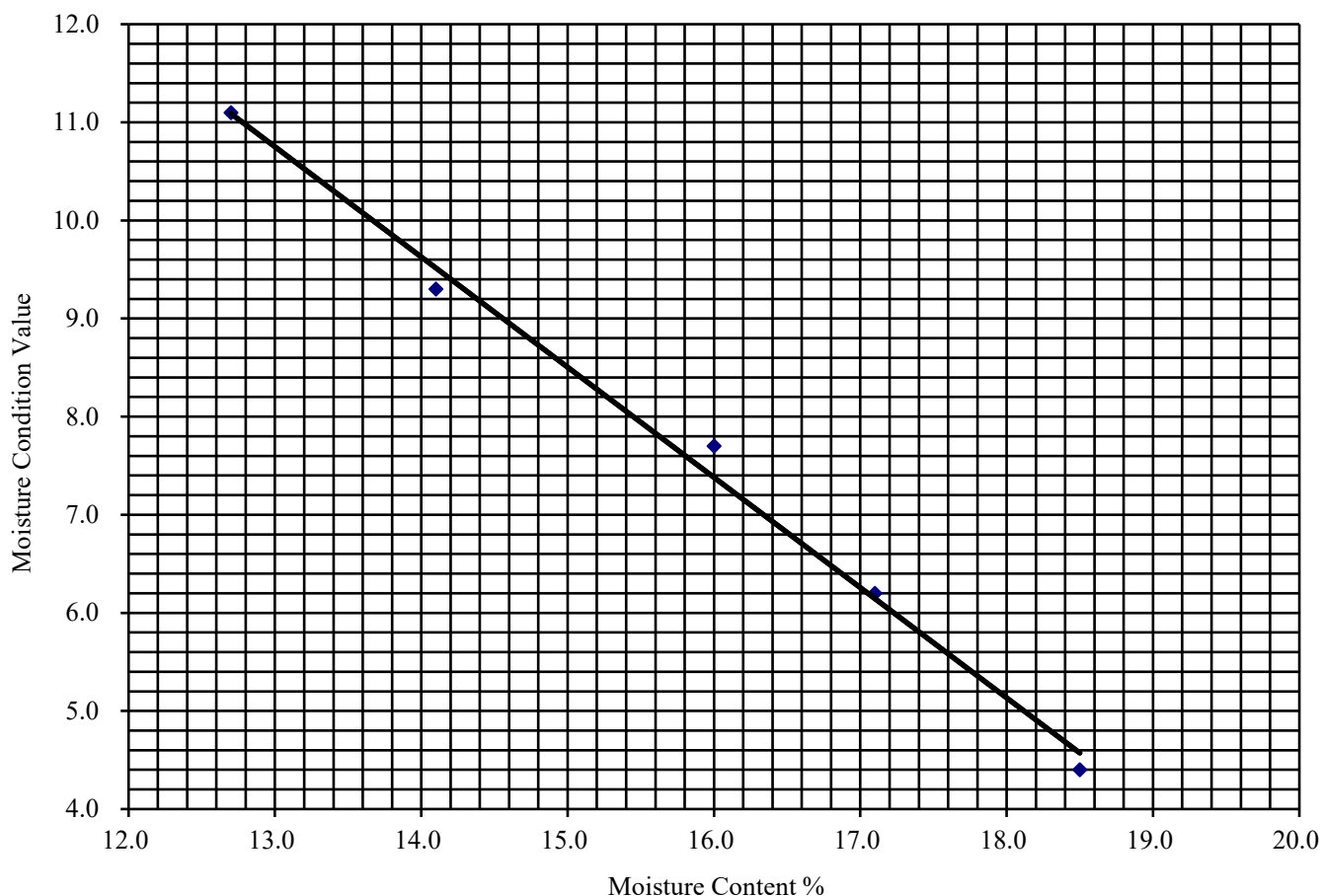
Top Depth (m): 4.50

Sample Number: 6

Base Depth (m): 4.95

Sample Type: B

Initial Moisture Content (%):	20
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	12.7	14.1	16.0	17.1	18.5
MCV	11.1	9.3	7.7	6.2	4.4



Cowm Top

Contract No:
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STV5936

MOISTURE CONDITION VALUE CALIBRATION

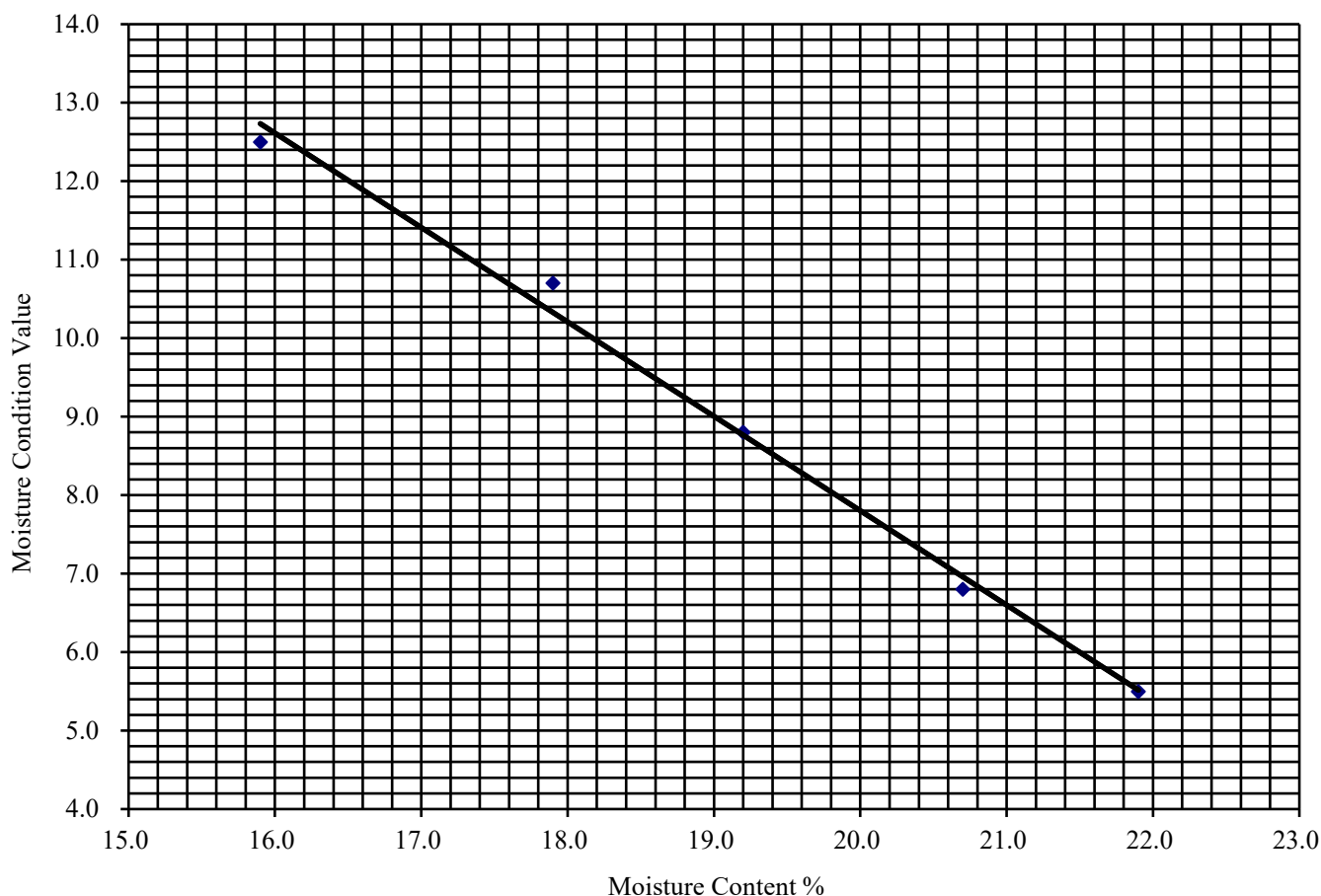
BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH11 Top Depth (m): 1.50

Sample Number: 5 Base Depth (m): 1.95

Sample Type: B

Initial Moisture Content (%):	21
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	2



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	15.9	17.9	19.2	20.7	21.9
MCV	12.5	10.7	8.8	6.8	5.5



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE

BS1377 : Part 4 : 1990 Clause 5.4

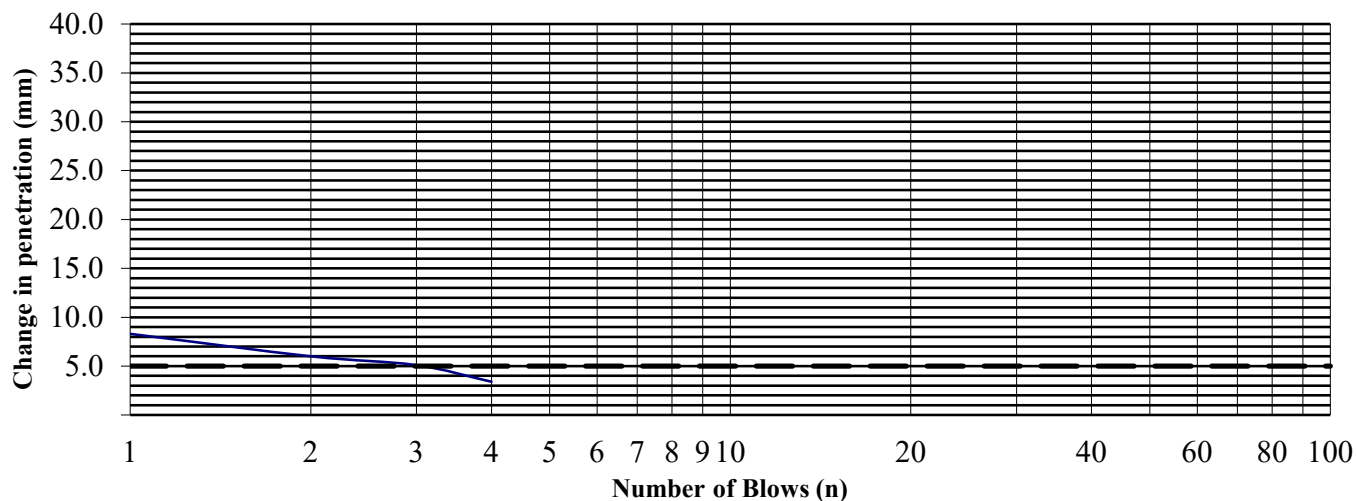
Hole Number: BH11 Top Depth (m): 4.50

Sample Number: 10 Base Depth (m): 4.95

Sample Type: B

Material Retained on the 20mm BS Test Sieve (%):	0
Interpretation based on steepest straight line intercept with 5mm change in penetration.	

MCV Determination



Blows (N)	Penetration (mm)	n to 4n (mm)
1	56.8	8.3
2	52.0	6.0
3	50.4	5.1
4	48.5	3.4
6	47.0	
8	46.0	
12	45.3	
16	45.1	
24		
32		
48		
64		
96		
128		
192		
256		

Test Results.

Moisture Content (%)	20
MCV	4.8



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

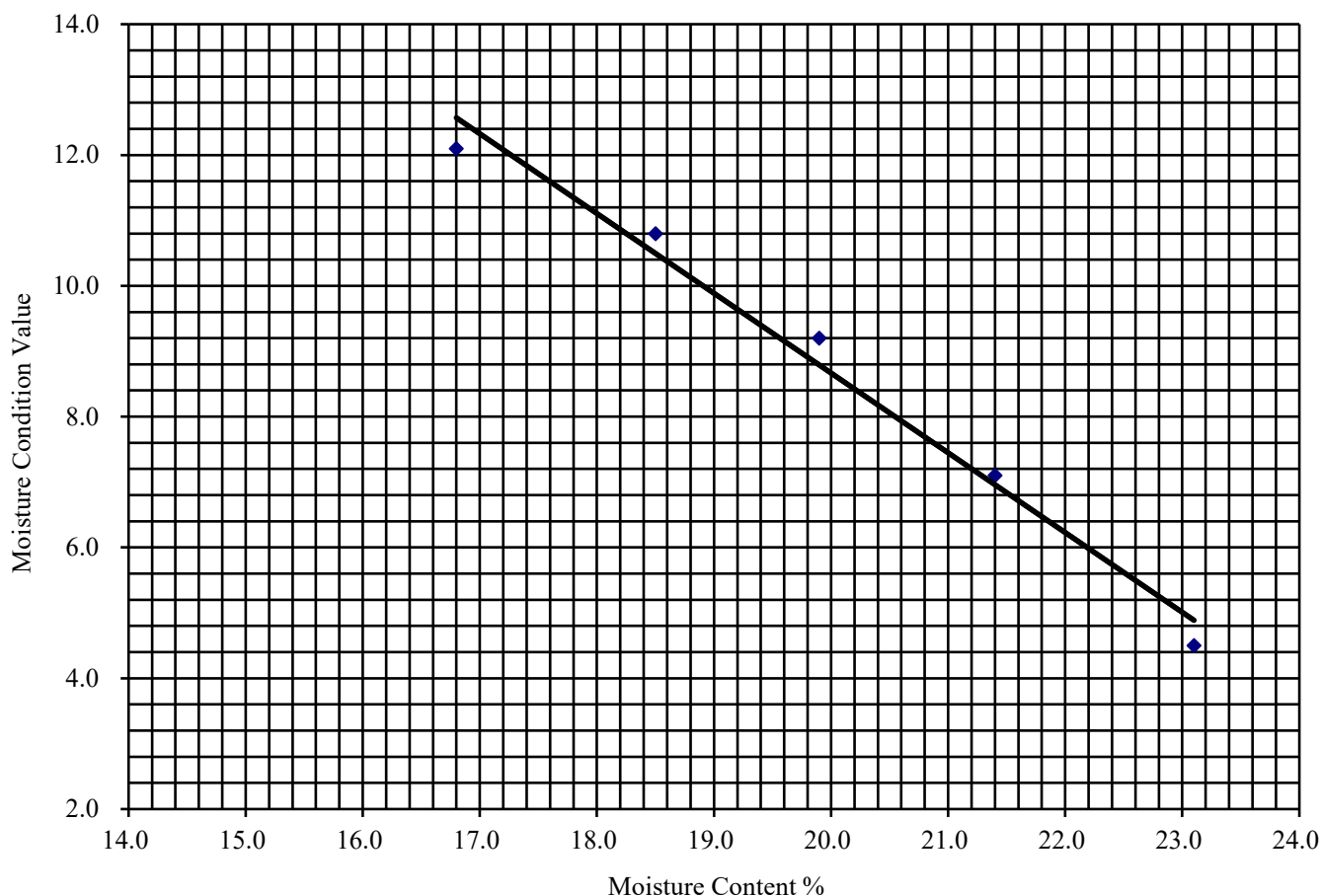
BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH11 Top Depth (m): 7.50

Sample Number: 15 Base Depth (m): 7.95

Sample Type: UT

Initial Moisture Content (%):	19
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	16.8	18.5	19.9	21.4	23.1
MCV	12.1	10.8	9.2	7.1	4.5



Cowm Top

Contract No:
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Client Ref:
STV5936

MOISTURE CONDITION VALUE CALIBRATION

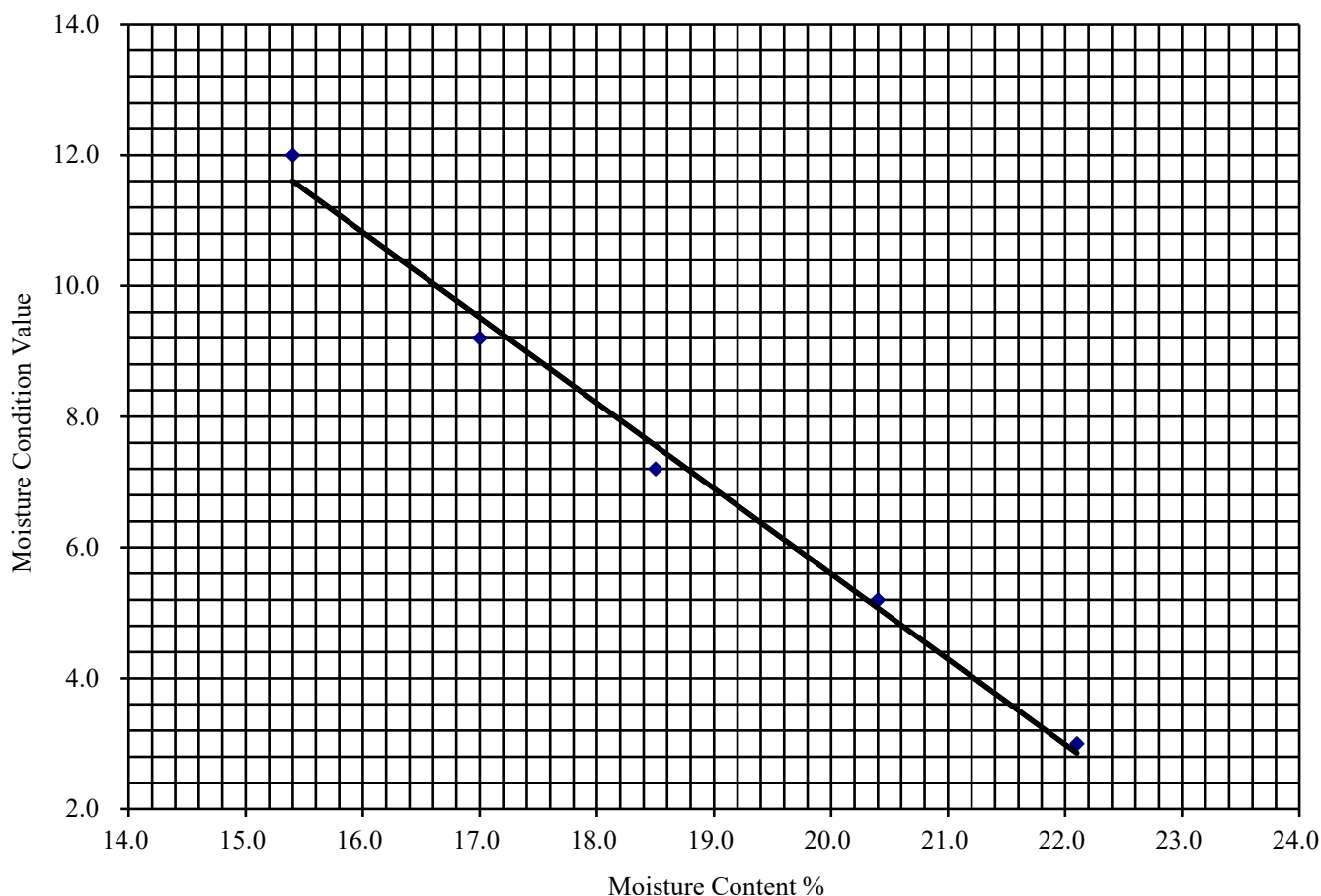
BS1377 : Part 4 : 1990 Clause 5.5

Hole Number: BH11 Top Depth (m): 10.50

Sample Number: 19 Base Depth (m): 10.95

Sample Type: UT

Initial Moisture Content (%):	22
Single/Separate Samples Tested	Separate
Material Retained on the 20mm BS Test Sieve (%):	0



Test Results.

Test Number	1	2	3	4	5
Moisture Content (%)	15.4	17.0	18.5	20.4	22.1
MCV	12.0	9.2	7.2	5.2	3.0



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

MOISTURE CONDITION VALUE

BS1377 : Part 4 : 1990 Clause 5.4

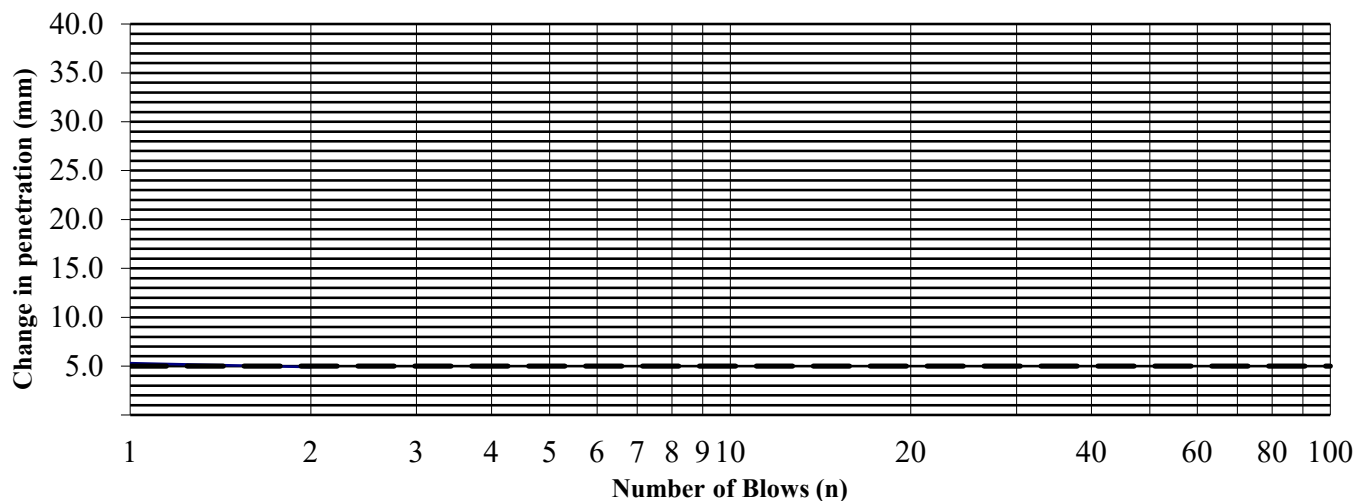
Hole Number: TP16 Top Depth (m): 4.10

Sample Number: 6 Base Depth (m):

Sample Type: B

Material Retained on the 20mm BS Test Sieve (%):	0
Interpretation based on steepest straight line intercept with 5mm change in penetration.	

MCV Determination



Blows (N)	Penetration (mm)	n to 4n (mm)
1	52.0	5.3
2	49.2	4.9
3	47.6	
4	46.7	
6	45.3	
8	44.3	
12		
16		
24		
32		
48		
64		
96		
128		
192		
256		

Test Results.

Moisture Content (%)	15
MCV	1.3



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION
WITHOUT MEASUREMENT OF PORE PRESSURE
BS1377 : Part7 : 1990: Clause 8

Hole Number:

BH01

Top Depth (m):

1.20

Sample Number:

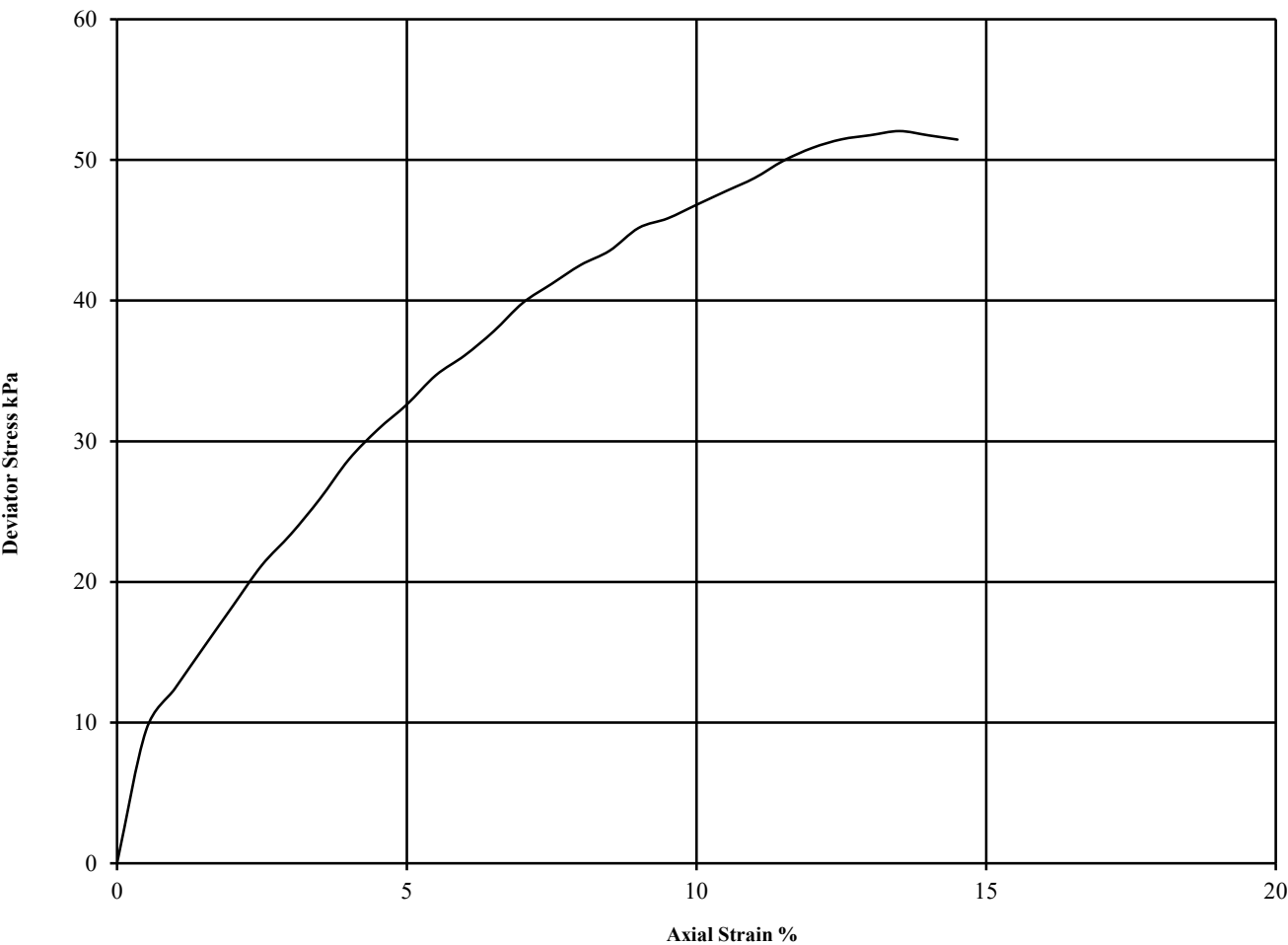
6

Base Depth (m):

1.65

Sample Type

B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	25	2.04	1.62	24	52	26	13.5	Plastic	



Cowm Top

Contract No:

PSL24/5600

Client Ref:

STV5936

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

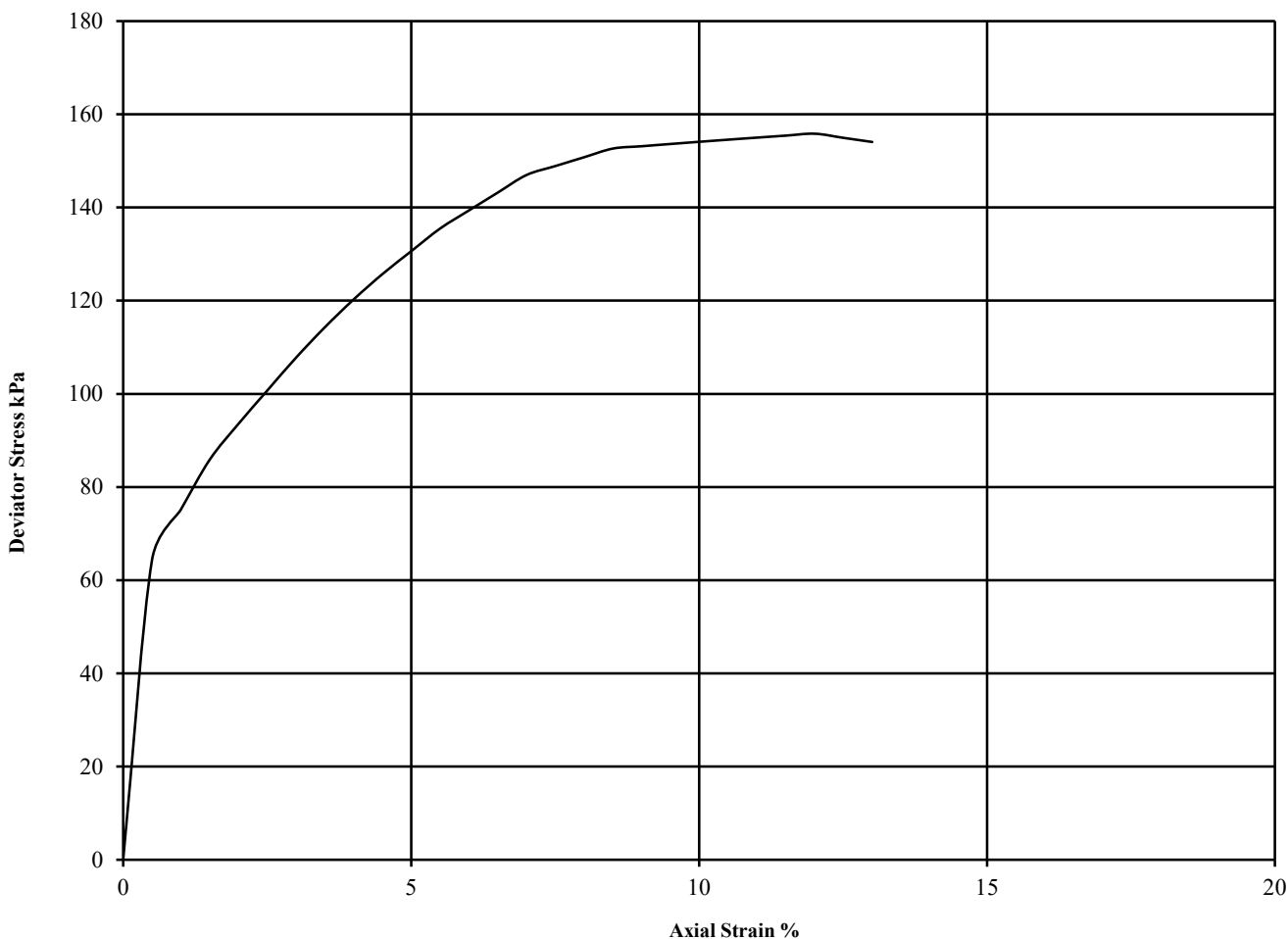
Hole Number: BH01

Top Depth (m): 2.00

Sample Number: 10

Base Depth (m): 2.45

Sample Type UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	20	2.16	1.80	40	156	78	12.0	Plastic	



Cowm Top

Contract No:

PSL24/5600

Client Ref:

STV5936

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

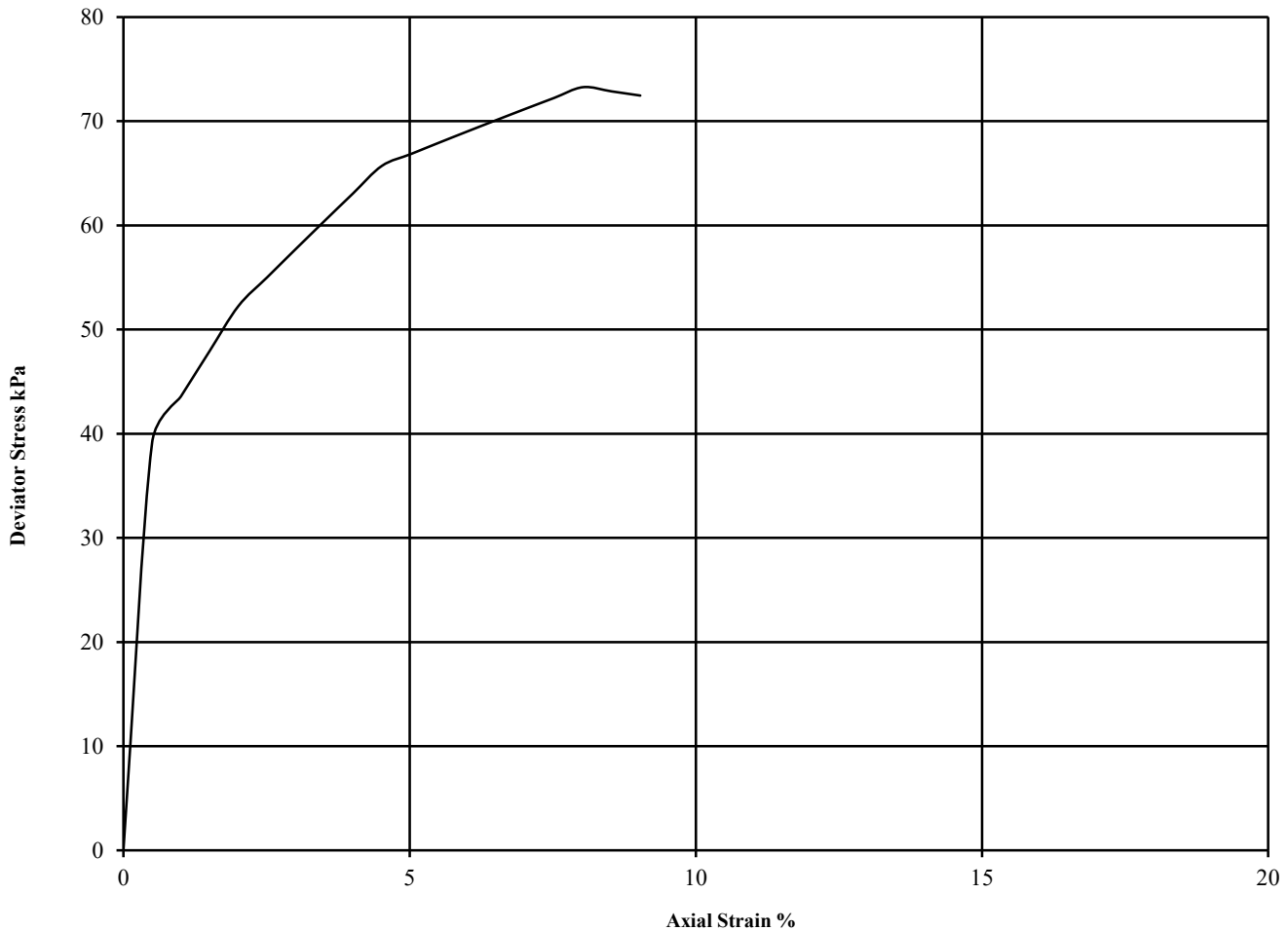
Hole Number: BH01

Top Depth (m): 11.50

Sample Number: 19

Base Depth (m): 11.95

Sample Type UT



Diameter (mm):		38	Height (mm):		76	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.88 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	15	2.07	1.80	230	73	37	8.0	Intermediate	

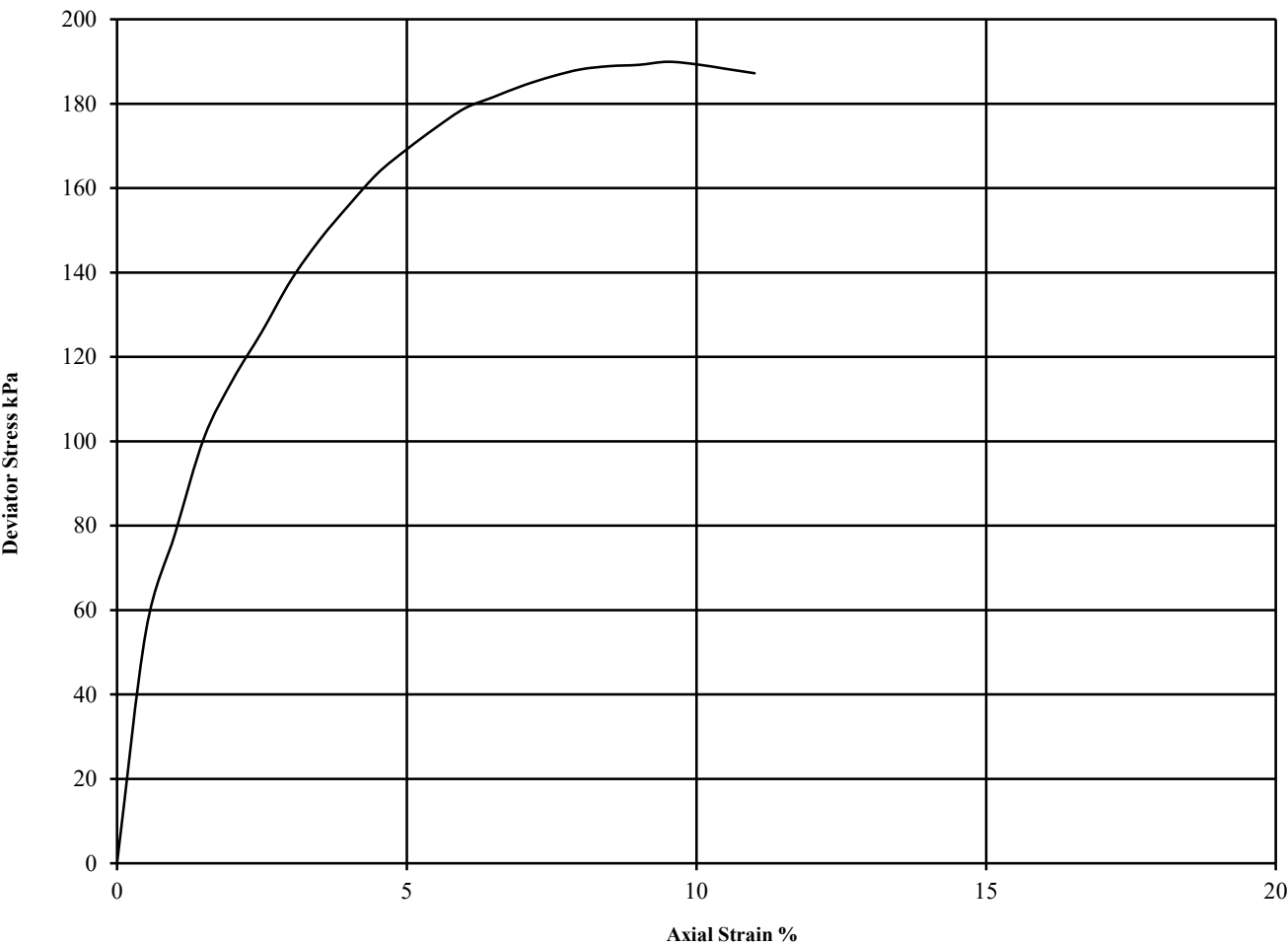


Cowm Top

Contract No:
PSL24/5600
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STV5936

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION
WITHOUT MEASUREMENT OF PORE PRESSURE
BS1377 : Part7 : 1990: Clause 8

Hole Number: BH02 Top Depth (m): 1.20
Sample Number: 3 Base Depth (m): 1.65
Sample Type UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	26	1.95	1.55	24	190	95	9.5	Plastic	

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Hole Number:

BH02

Top Depth (m):

4.00

Sample Number:

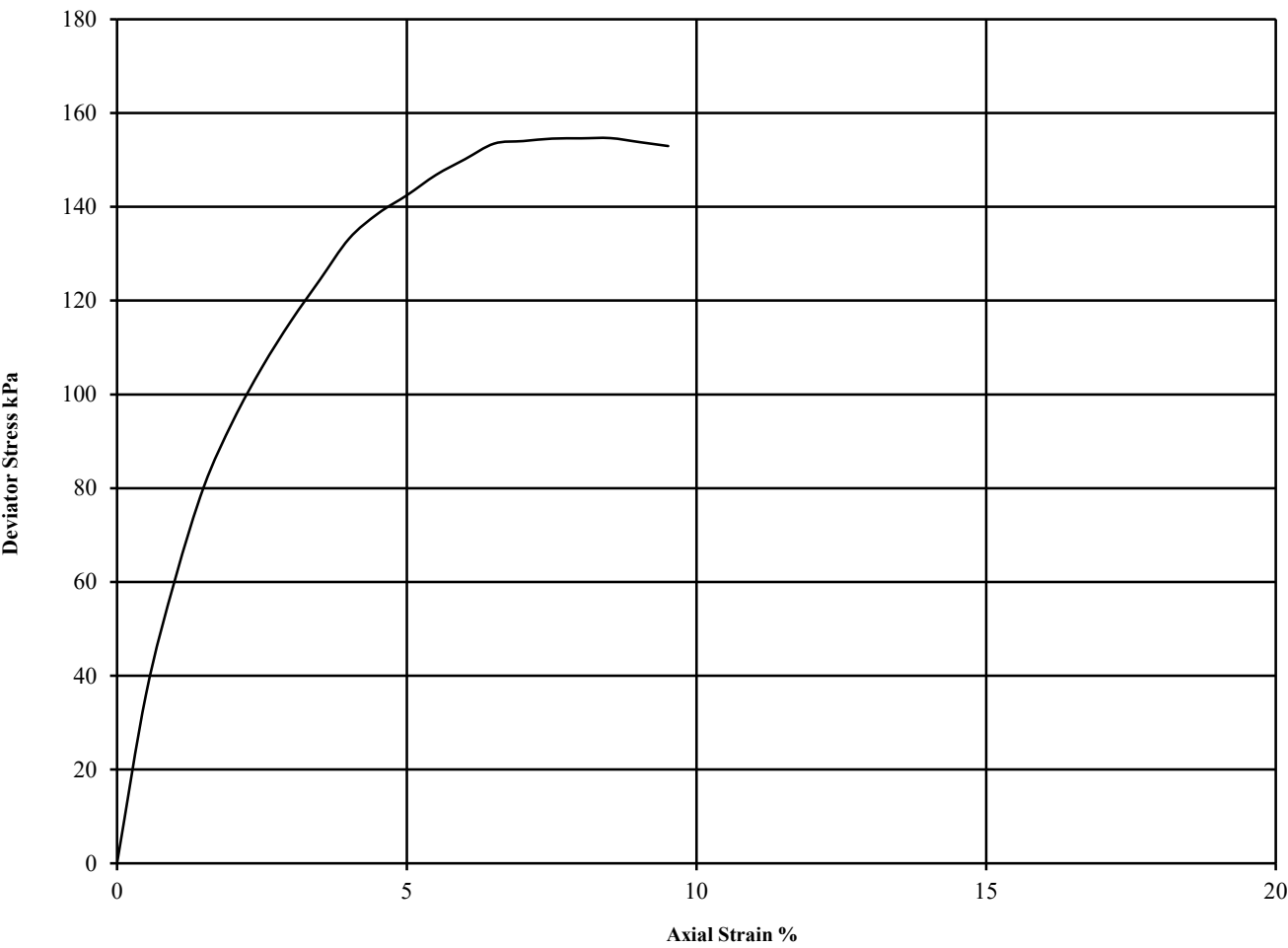
7

Base Depth (m):

4.45

Sample Type

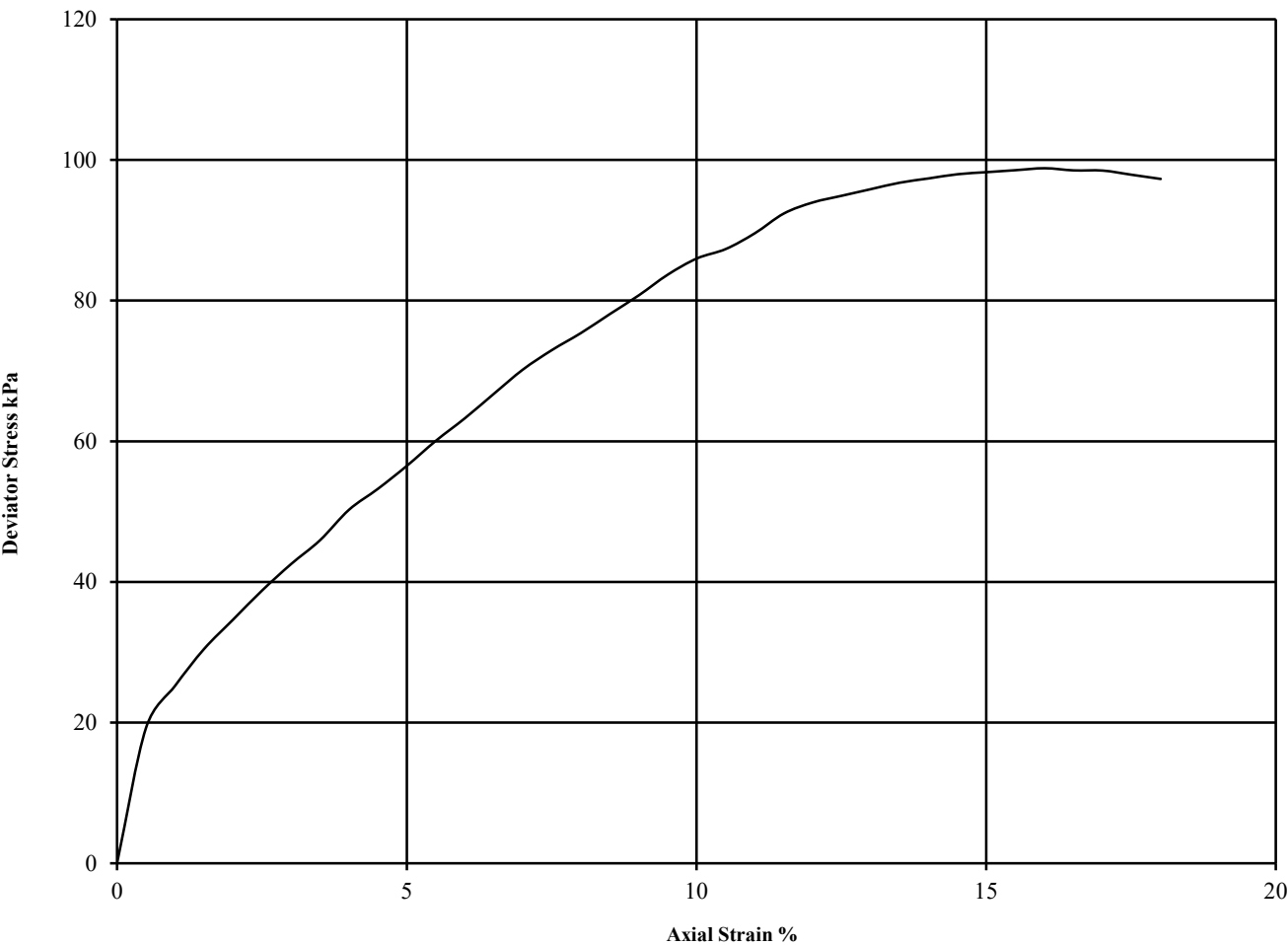
UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max.	Shear	Failure Strain (%)	Mode of Failure	Undisturbed Sample
					Deviator Stress	Strength			Sample taken from top of tube
					(kPa)	Cu			Rate of strain = 2 %/min
					(kPa)	(kPa)			Latex Membrane used 0.2 mm thick,
					θ_3	$(\theta_1-\theta_3)_f$			$^{1/2}(\theta_1-\theta_3)_f$
1	24	2.03	1.63	80	155	77	8.5	Plastic	See summary of soil descriptions

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Hole Number: BH02 Top Depth (m): 5.00
Sample Number: 9 Base Depth (m): 5.50
Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	22	2.03	1.66	100	99	49	16.0	Plastic	



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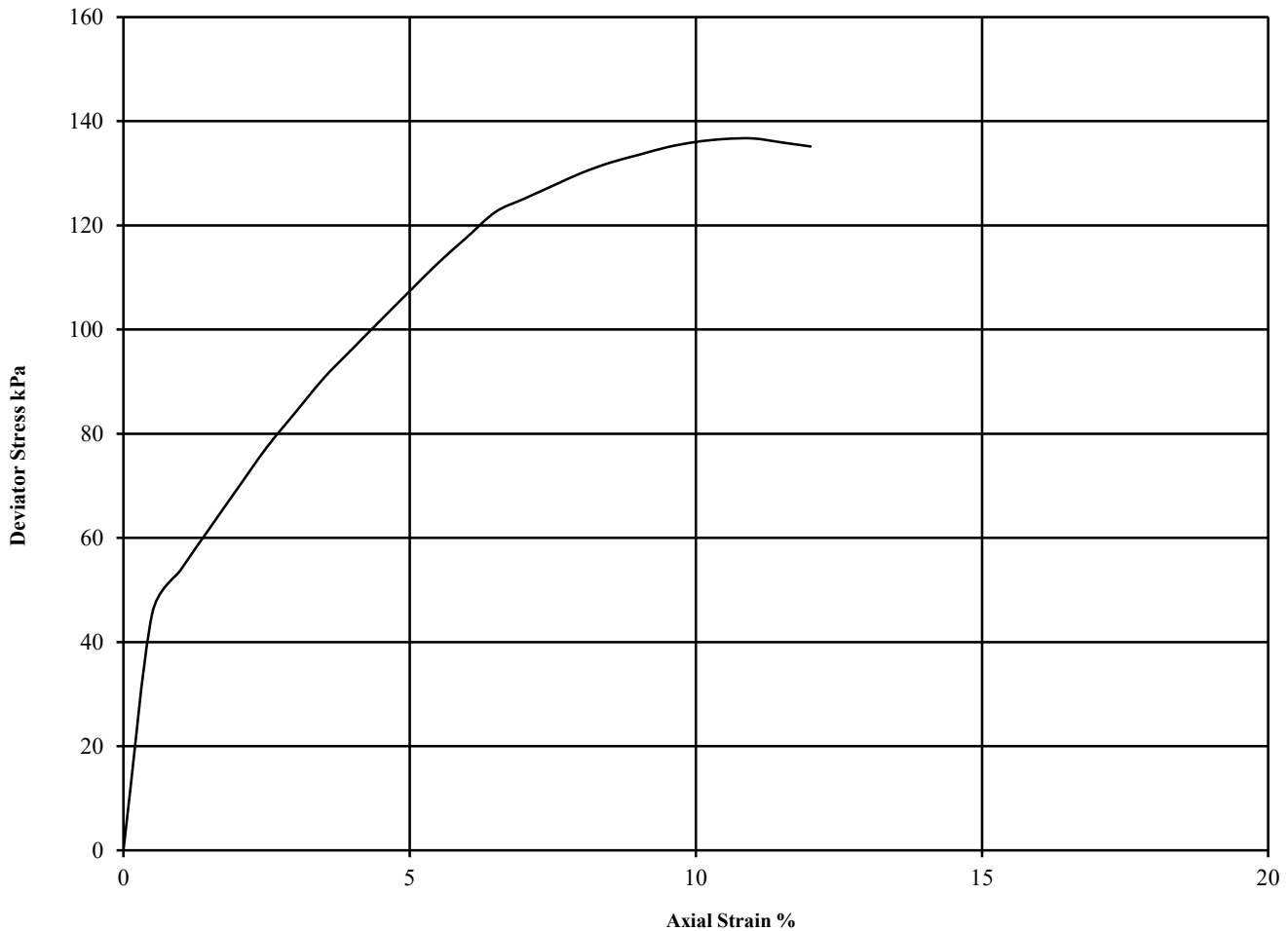
Hole Number: BH02

Top Depth (m): 12.00

Sample Number: 19

Base Depth (m): 12.95

Sample Type UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			Sample taken from top of tube
									Rate of strain = 2 %/min
									Latex Membrane used 0.2 mm thick,
									Correction applied 0.35
1	25	2.01	1.62	240	137	68	11.0	Plastic	See summary of soil descriptions



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Hole Number:

BH03

Top Depth (m):

2.00

Sample Number:

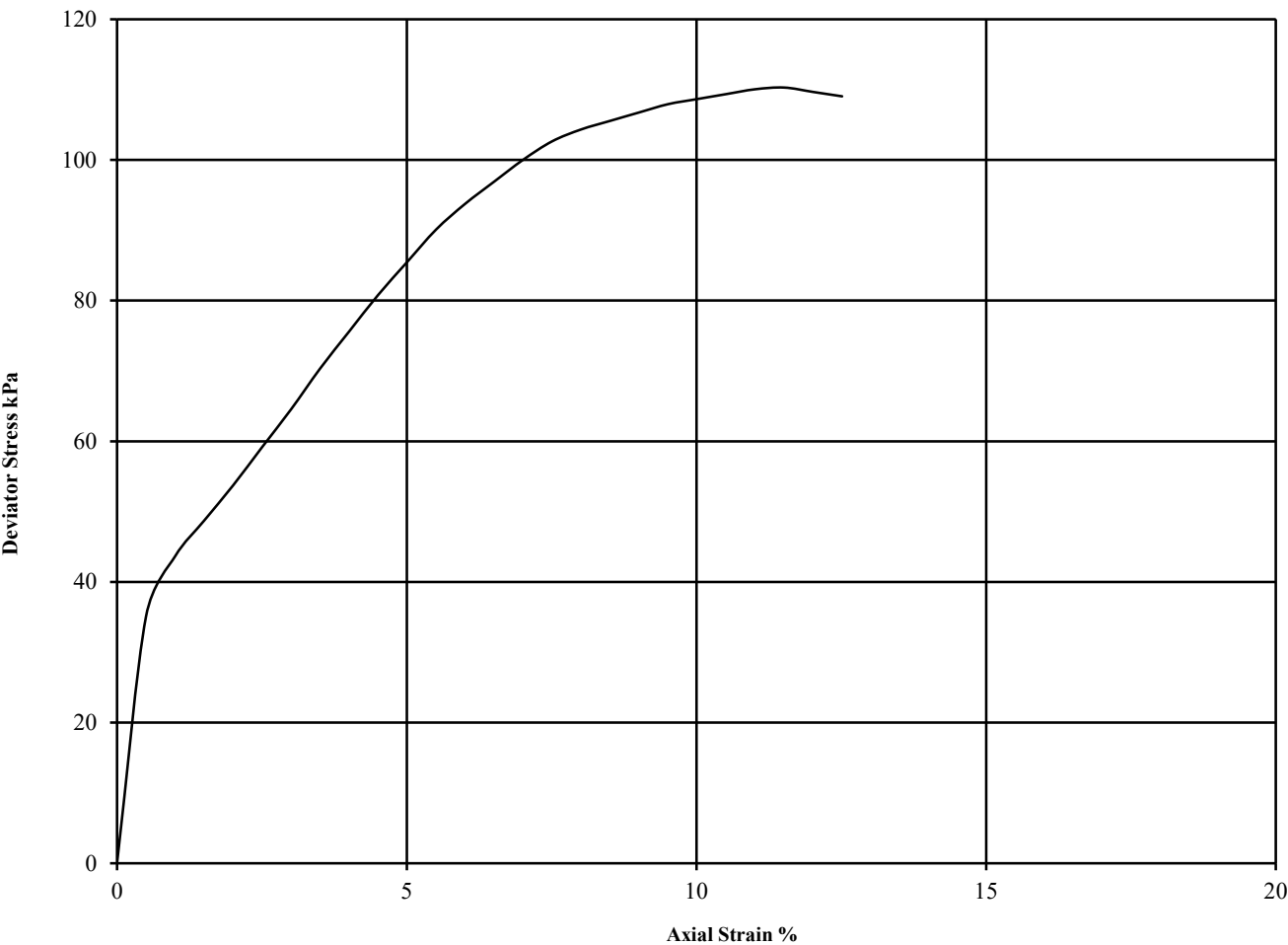
7

Base Depth (m):

2.45

Sample Type

UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	15	2.16	1.88	40	110	55	11.5	Plastic	



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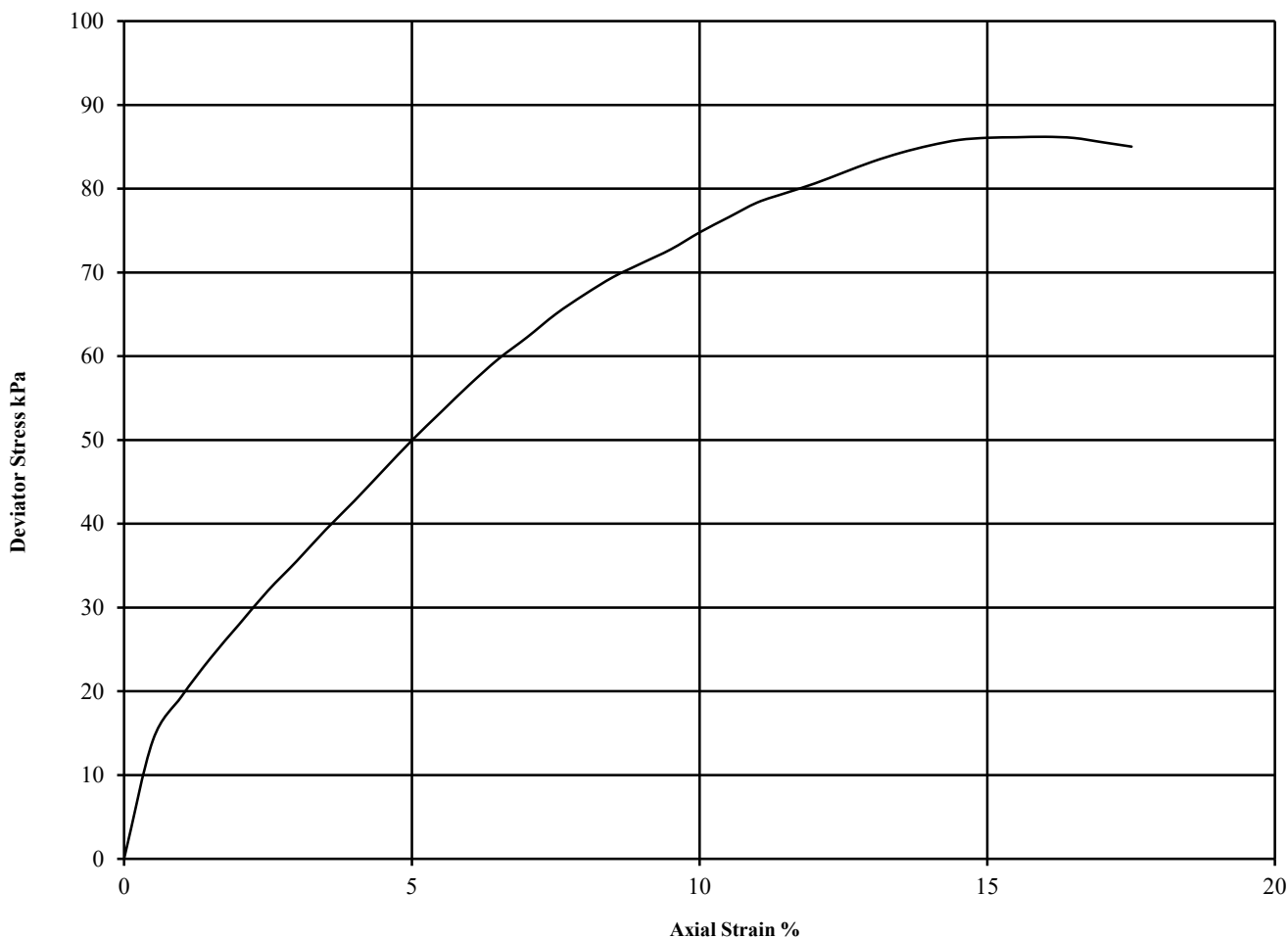
Hole Number: BH03

Top Depth (m): 3.00

Sample Number: 9

Base Depth (m): 3.45

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	24	2.02	1.62	60	86	43	16.0	Plastic	



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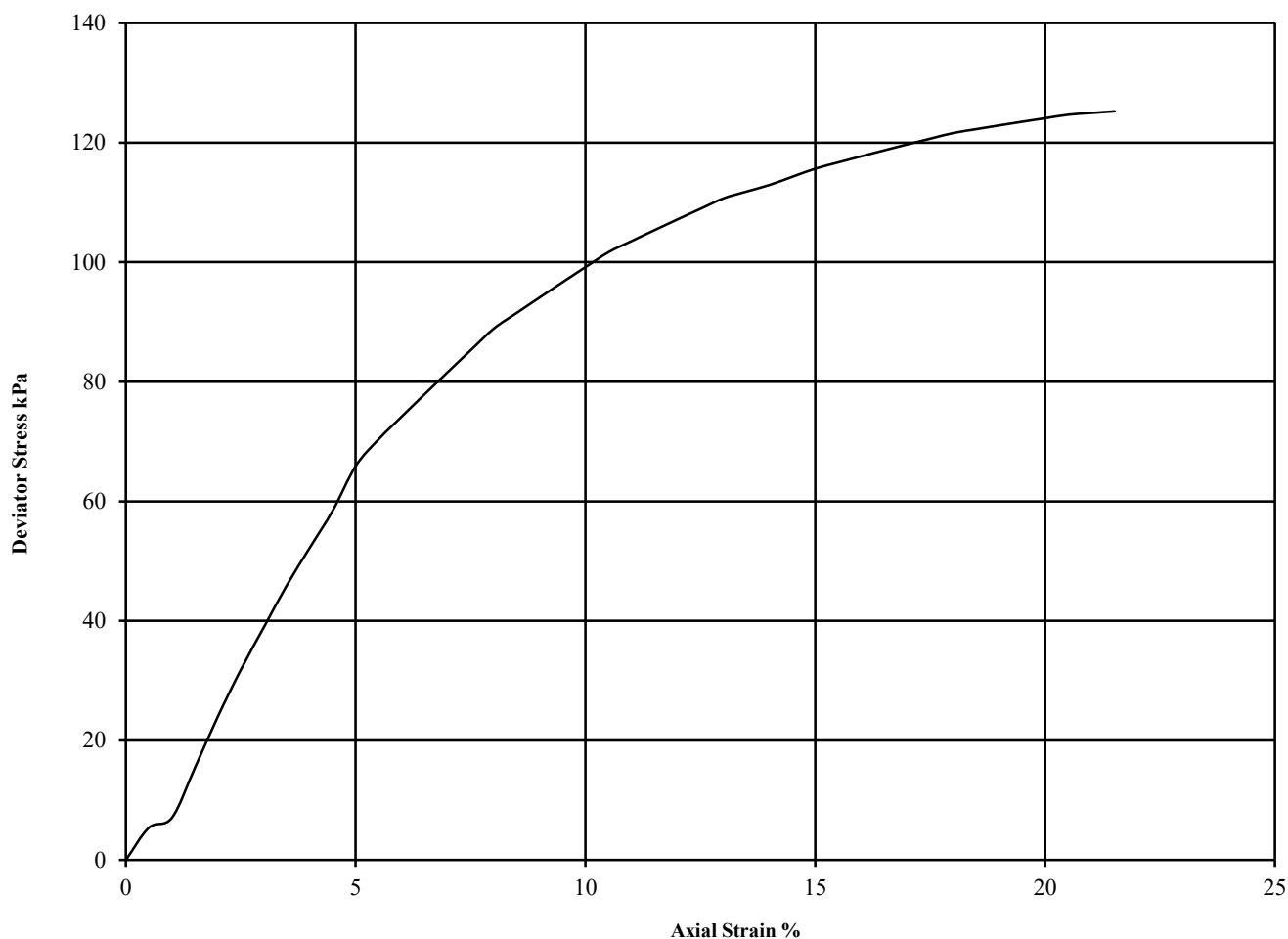
Hole Number: BH03

Top Depth (m): 8.00

Sample Number: 15

Base Depth (m): 8.50

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	11	2.31	2.08	160	125	63	21.5	Intermediate	



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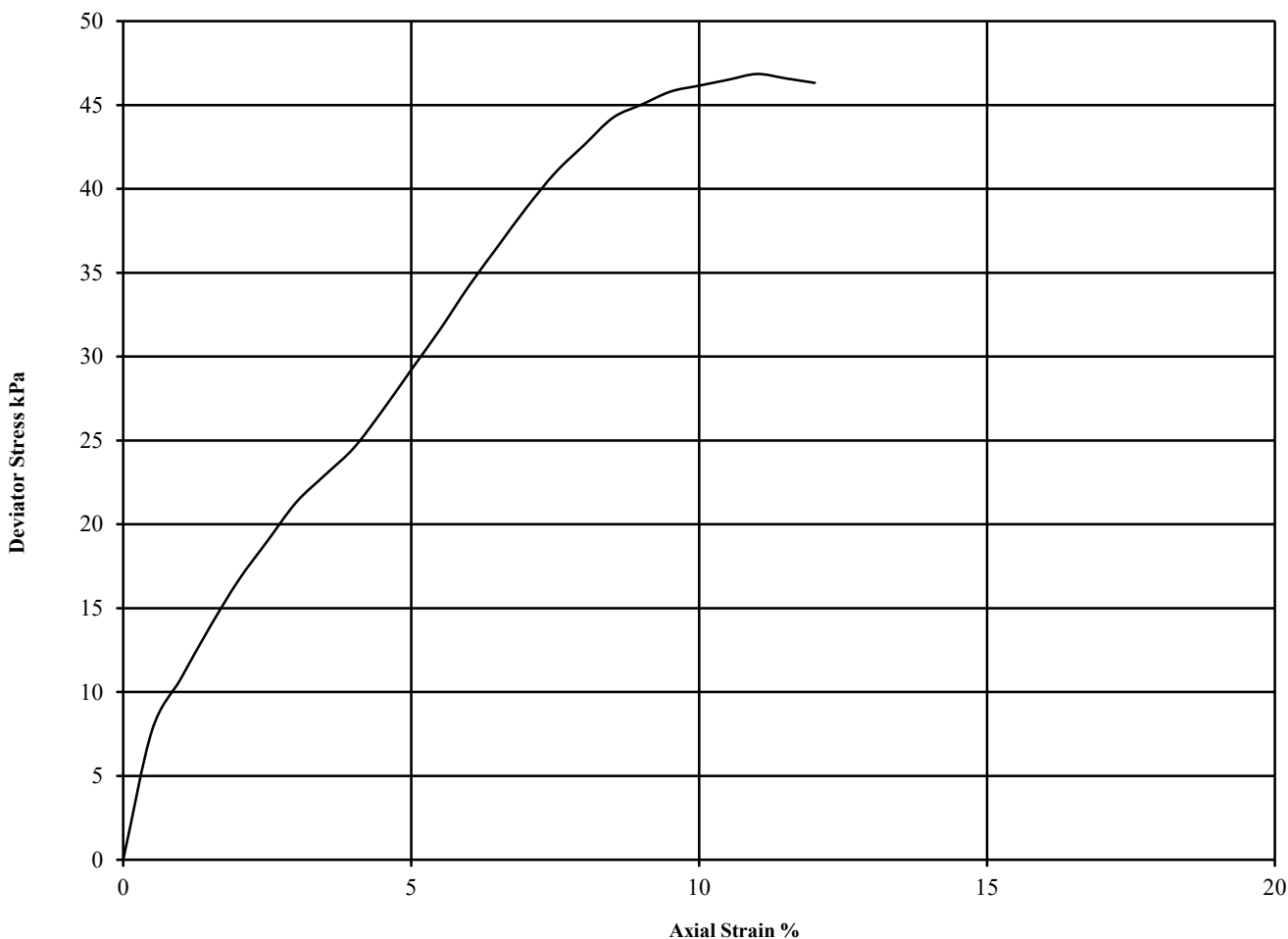
Hole Number: BH04

Top Depth (m): 1.20

Sample Number: 3

Base Depth (m): 1.65

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
1	24	2.00	1.62	24	47	23	11.0	Intermediate	



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Hole Number:

BH04

Top Depth (m):

15.00

Sample Number:

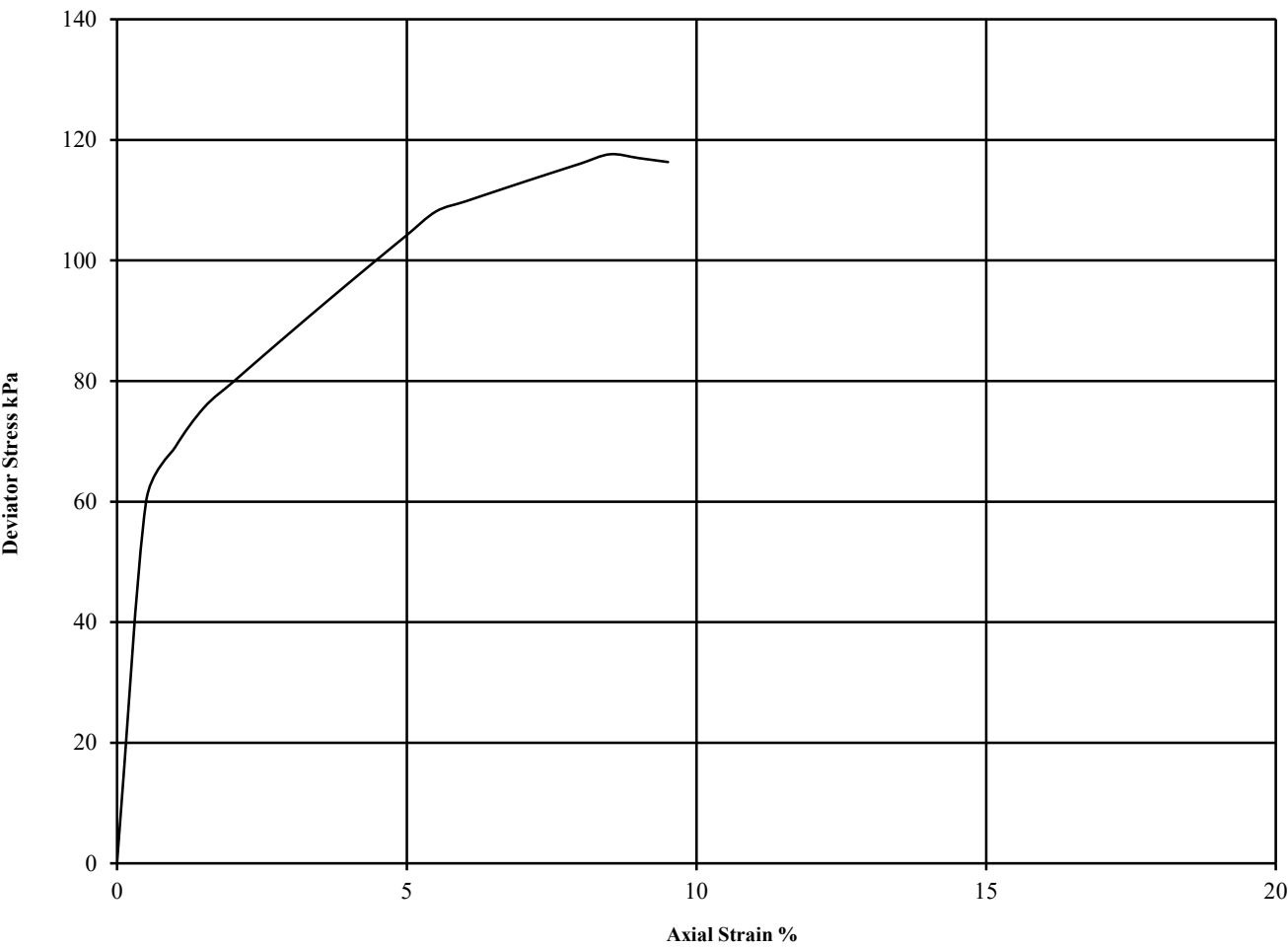
23

Base Depth (m):

15.45

Sample Type

UT



Diameter (mm):		38		Height (mm):		76		Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.88 See summary of soil descriptions		
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$					
1	16	2.16	1.87	300	118	59	8.5	Plastic			




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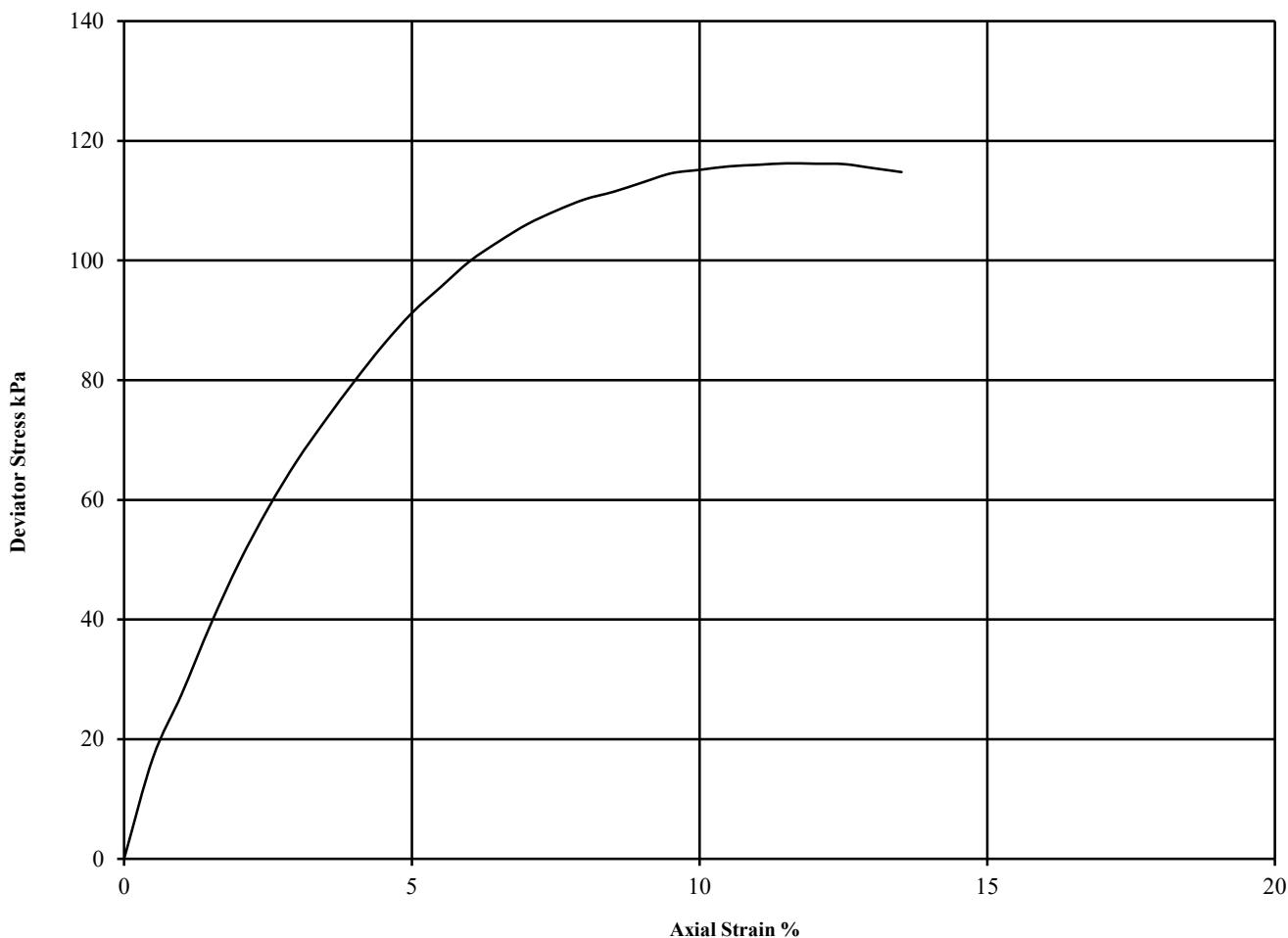
Hole Number: BH06

Top Depth (m): 1.50

Sample Number: 3

Base Depth (m): 1.95

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	21	2.00	1.65	30	116	58	11.5	Plastic	



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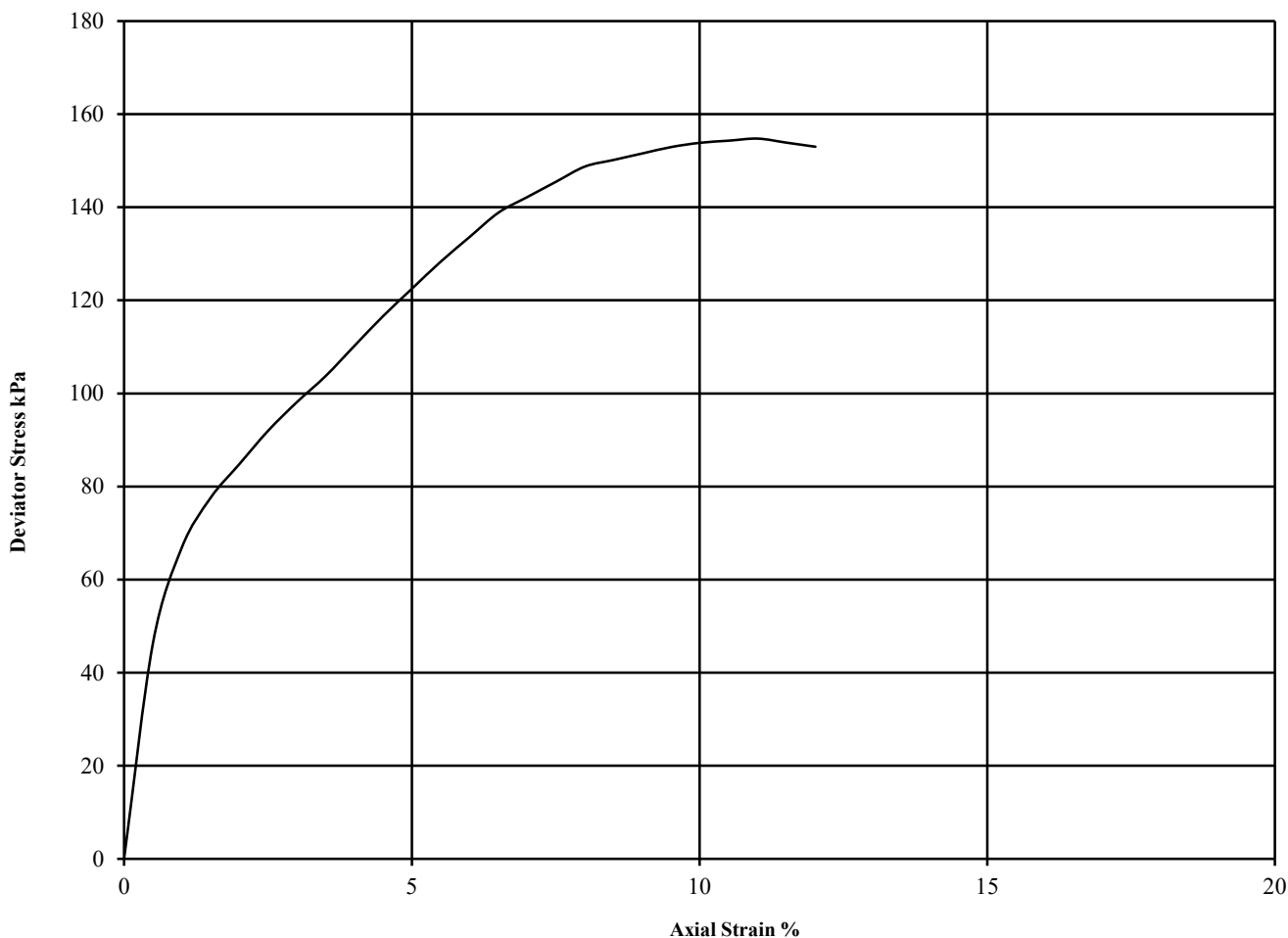
Hole Number: BH06

Top Depth (m): 3.00

Sample Number: 7

Base Depth (m): 3.45

Sample Type UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	16	2.15	1.85	60	155	77	11.0	Plastic	



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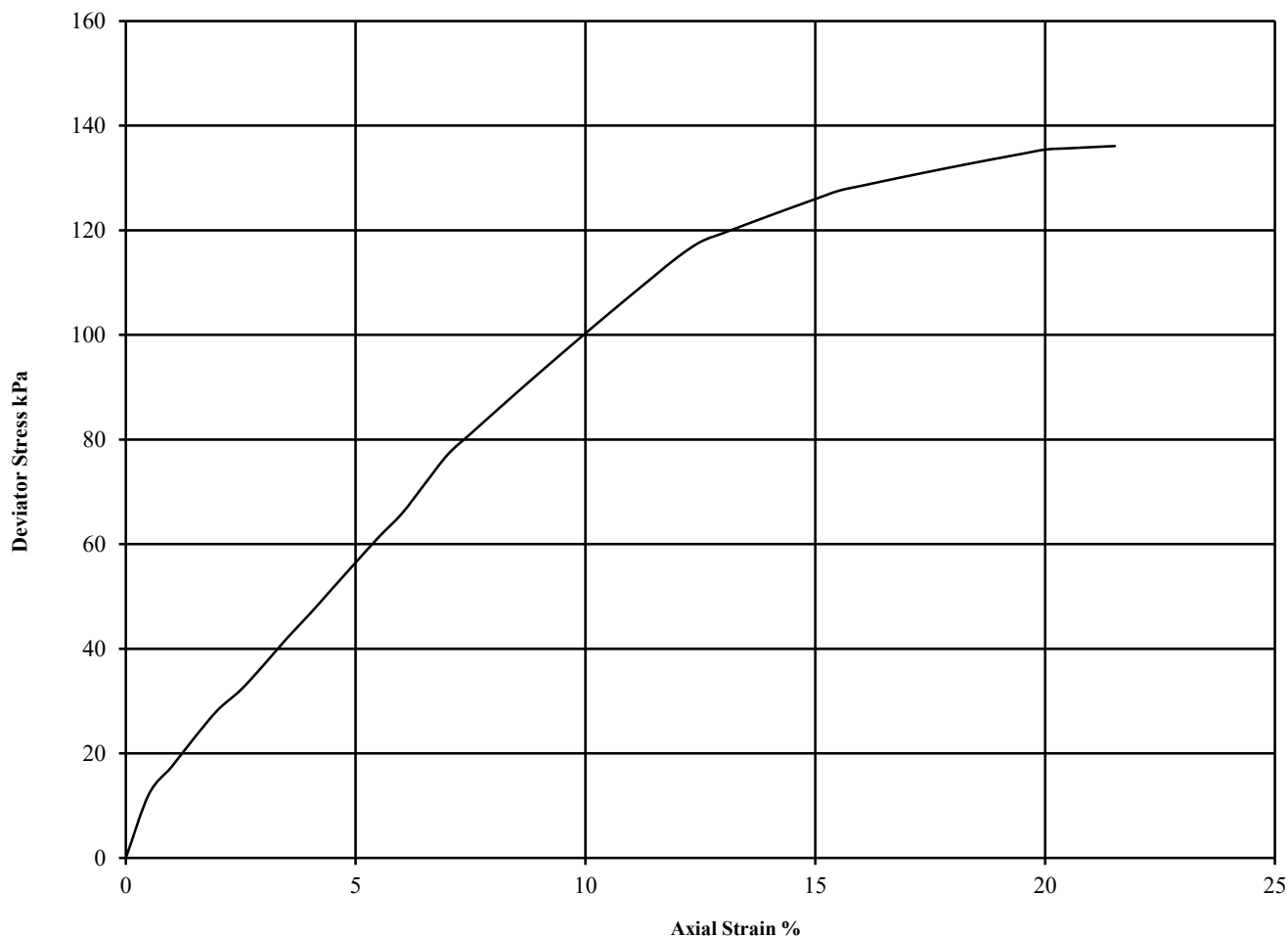
Hole Number: BH06

Top Depth (m): 4.50

Sample Number: 9

Base Depth (m): 4.95

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	13	2.27	2.00	90	136	68	21.5	Brittle	



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Hole Number:

BH06

Top Depth (m):

6.00

Sample Number:

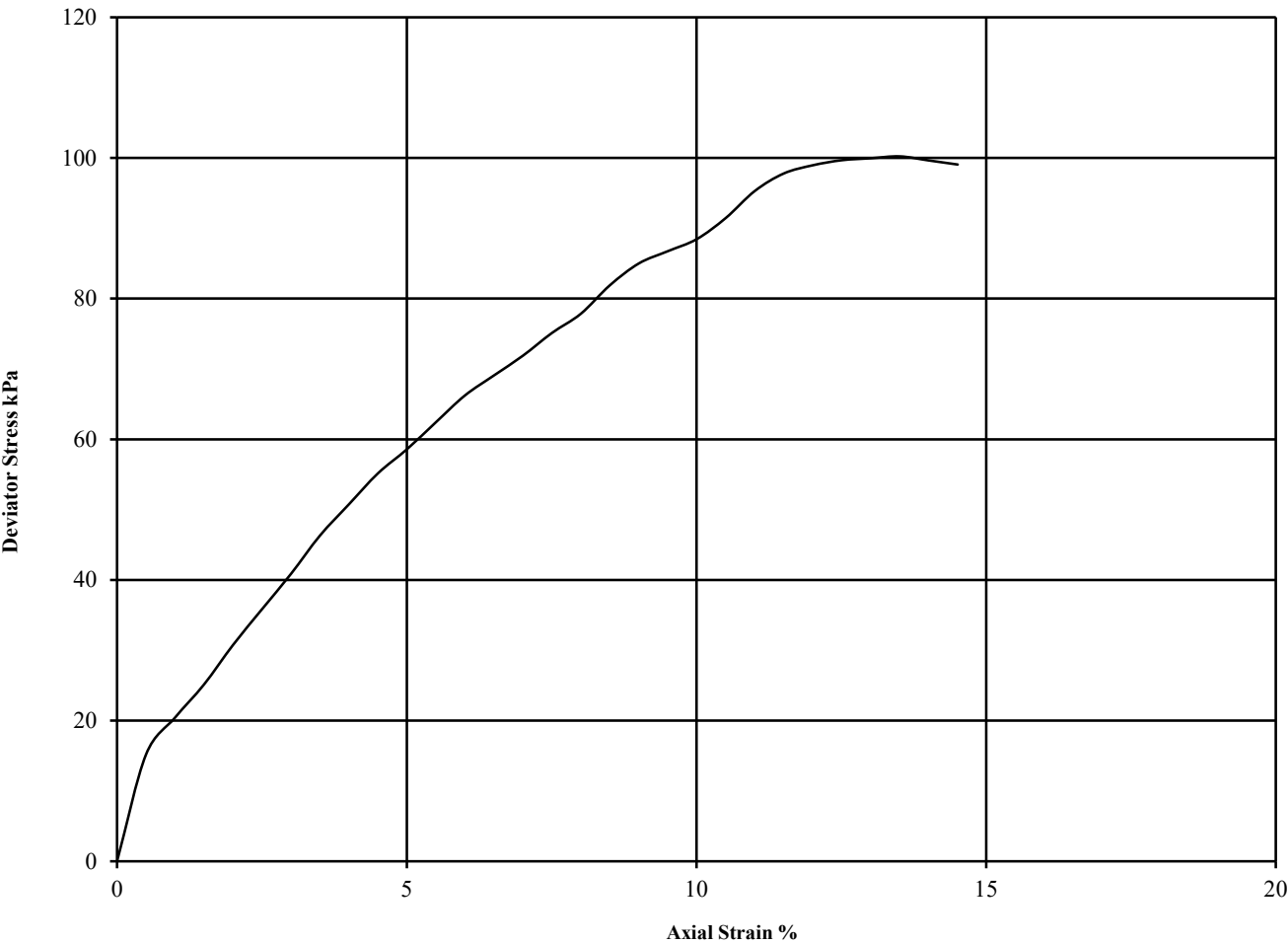
10

Base Depth (m):

6.45

Sample Type

UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	14	2.20	1.93	120	100	50	13.5	Plastic	

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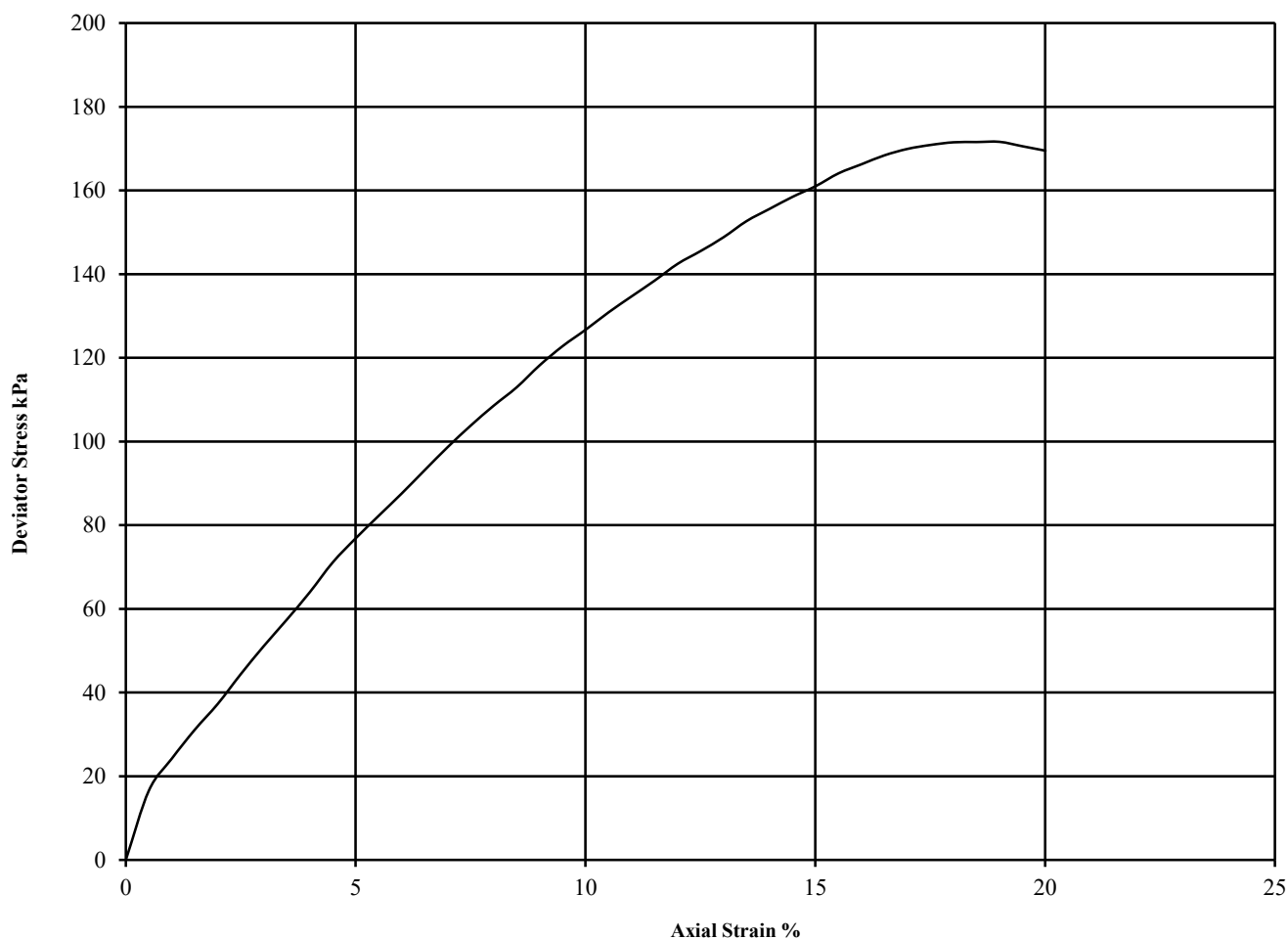
Hole Number: BH06

Top Depth (m): 7.50

Sample Number: 13

Base Depth (m): 7.95

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	13	2.21	1.96	150	172	86	19.0	Intermediate	



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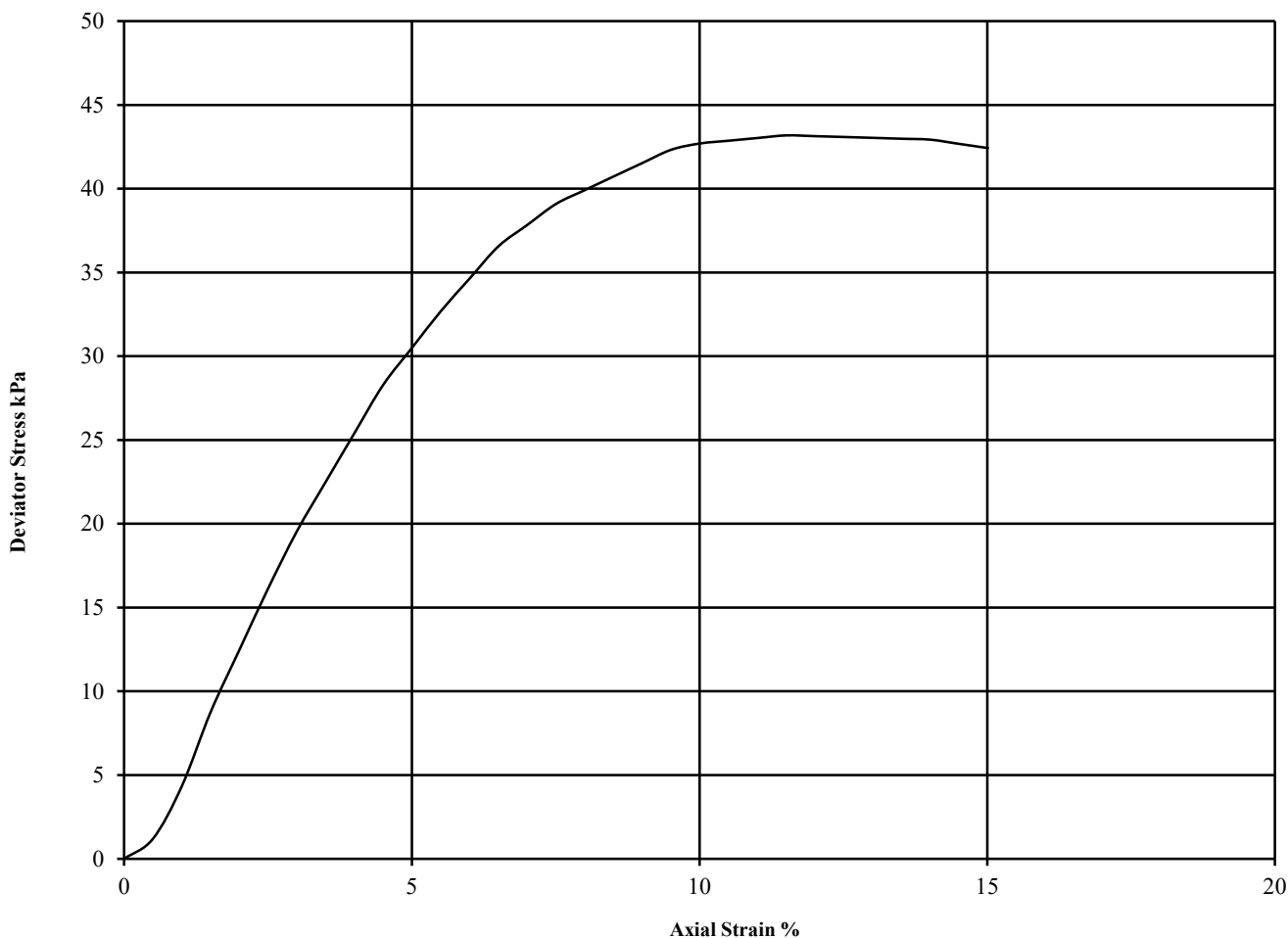
Hole Number: BH07

Top Depth (m): 0.40

Sample Number: 2

Base Depth (m): 1.20

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	27	1.84	1.45	10	43	22	11.5	Plastic	



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Hole Number:

BH07

Top Depth (m):

9.00

Sample Number:

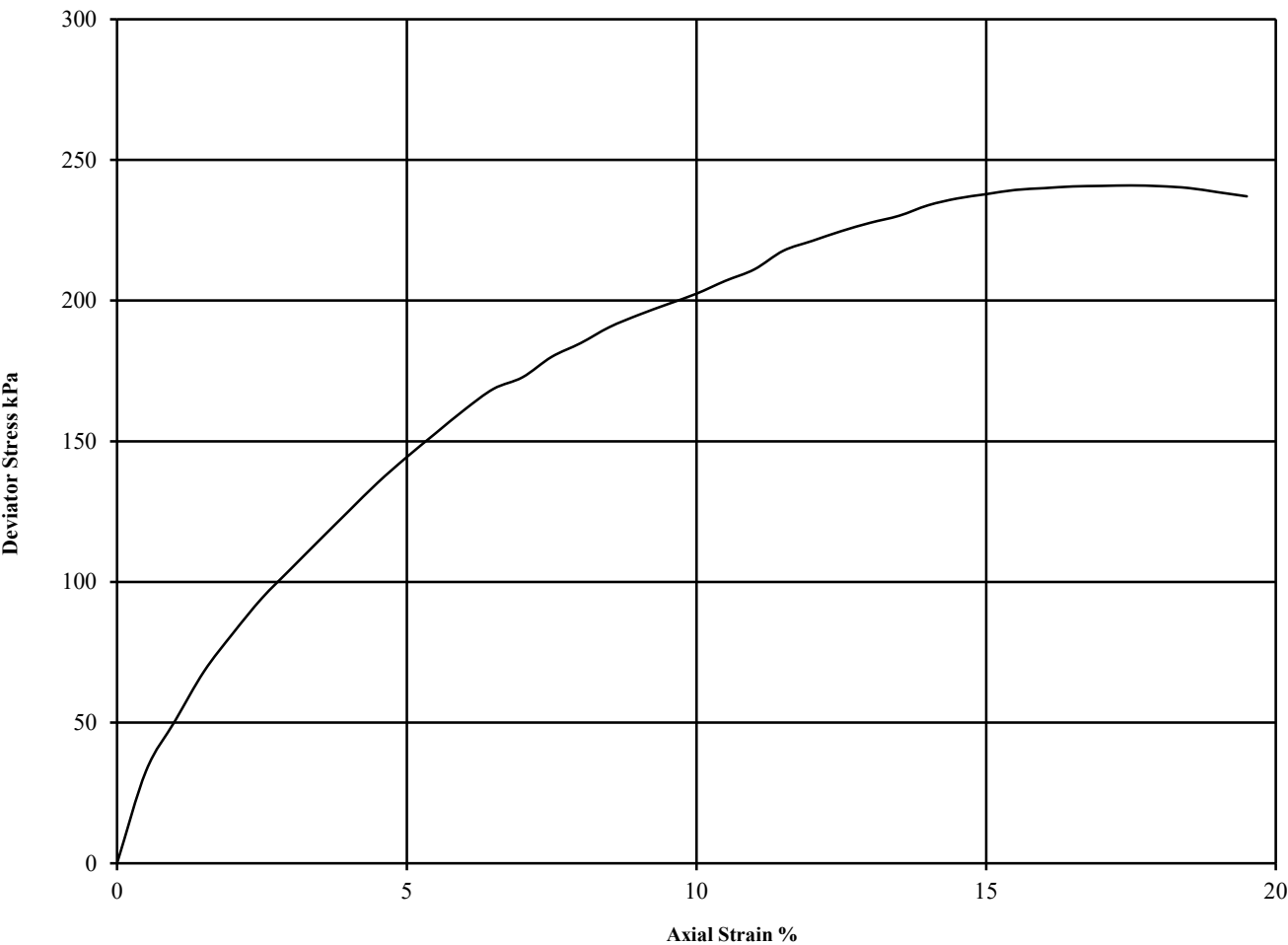
18

Base Depth (m):

9.45

Sample Type

UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	13	2.19	1.94	180	241	120	17.5	Plastic	

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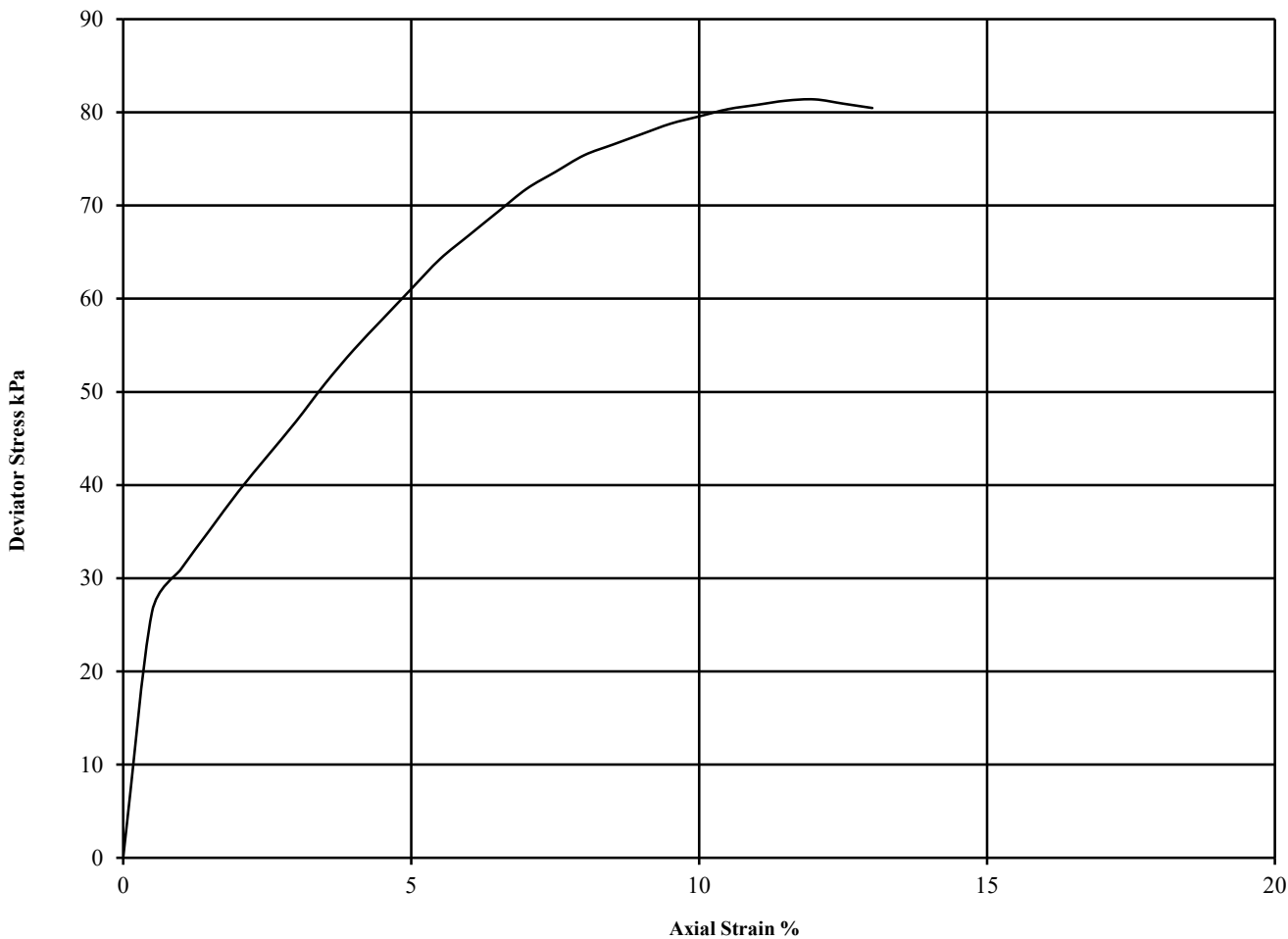
Hole Number: BH08

Top Depth (m): 2.00

Sample Number: 4

Base Depth (m): 3.00

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	23	1.98	1.62	40	81	41	12.0	Intermediate	



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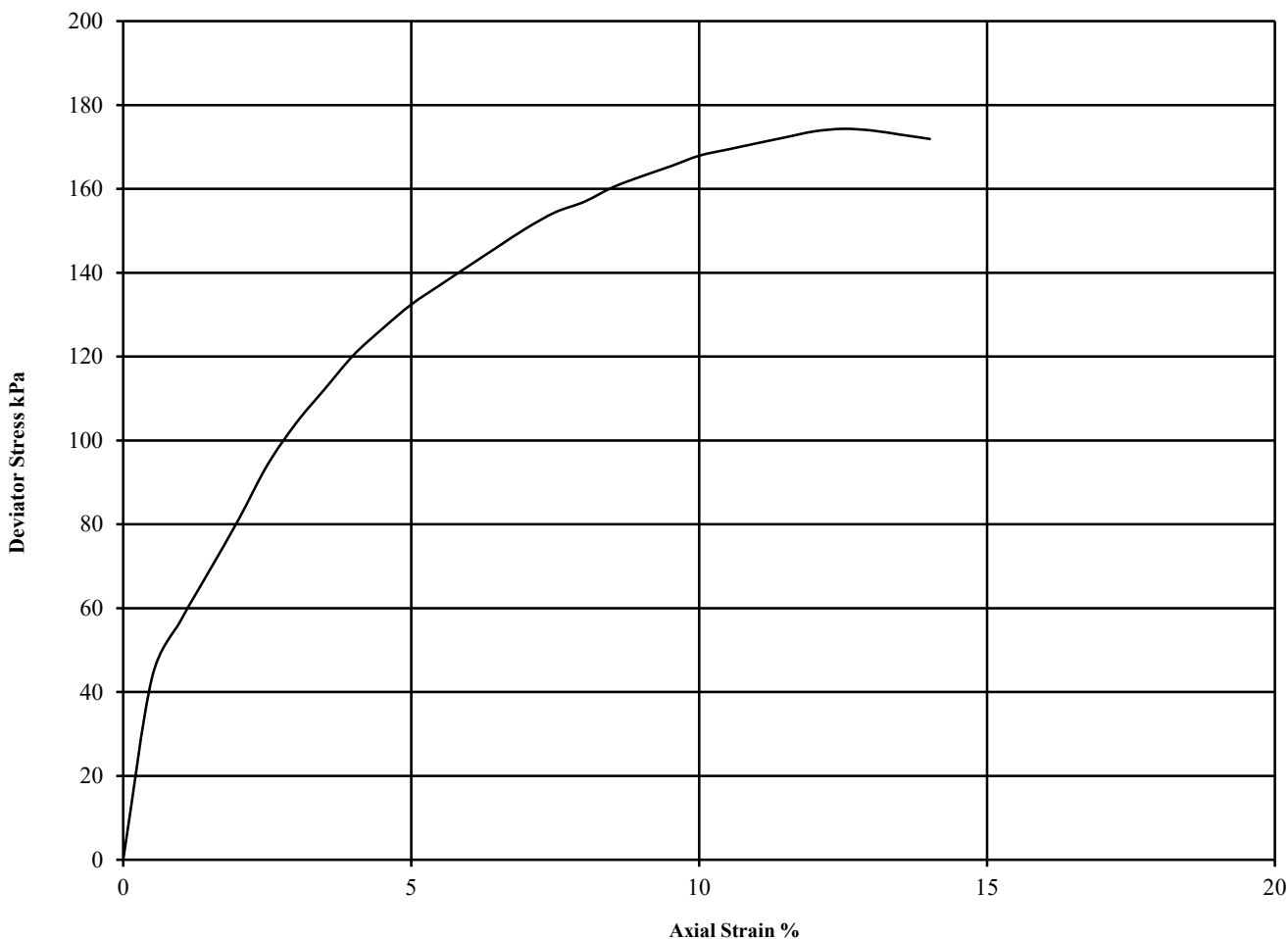
Hole Number: BH08

Top Depth (m): 6.00

Sample Number: 9

Base Depth (m): 7.50

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	21	1.86	1.54	120	174	87	12.5	Intermediate	



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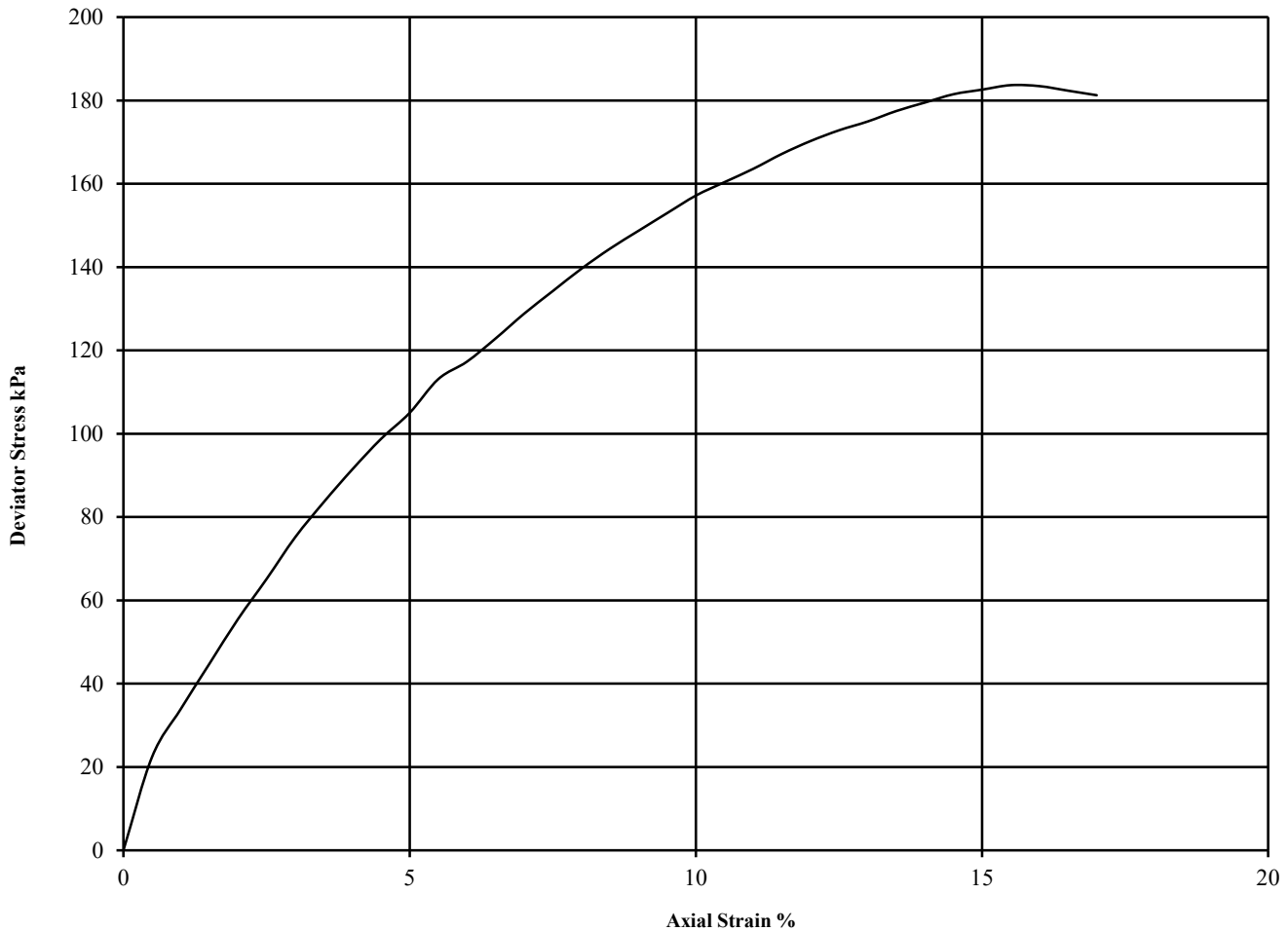
Hole Number: BH09

Top Depth (m): 1.20

Sample Number: 2

Base Depth (m): 1.65

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	16	2.17	1.86	24	184	92	15.5	Plastic	



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Hole Number:

BH09

Top Depth (m):

2.00

Sample Number:

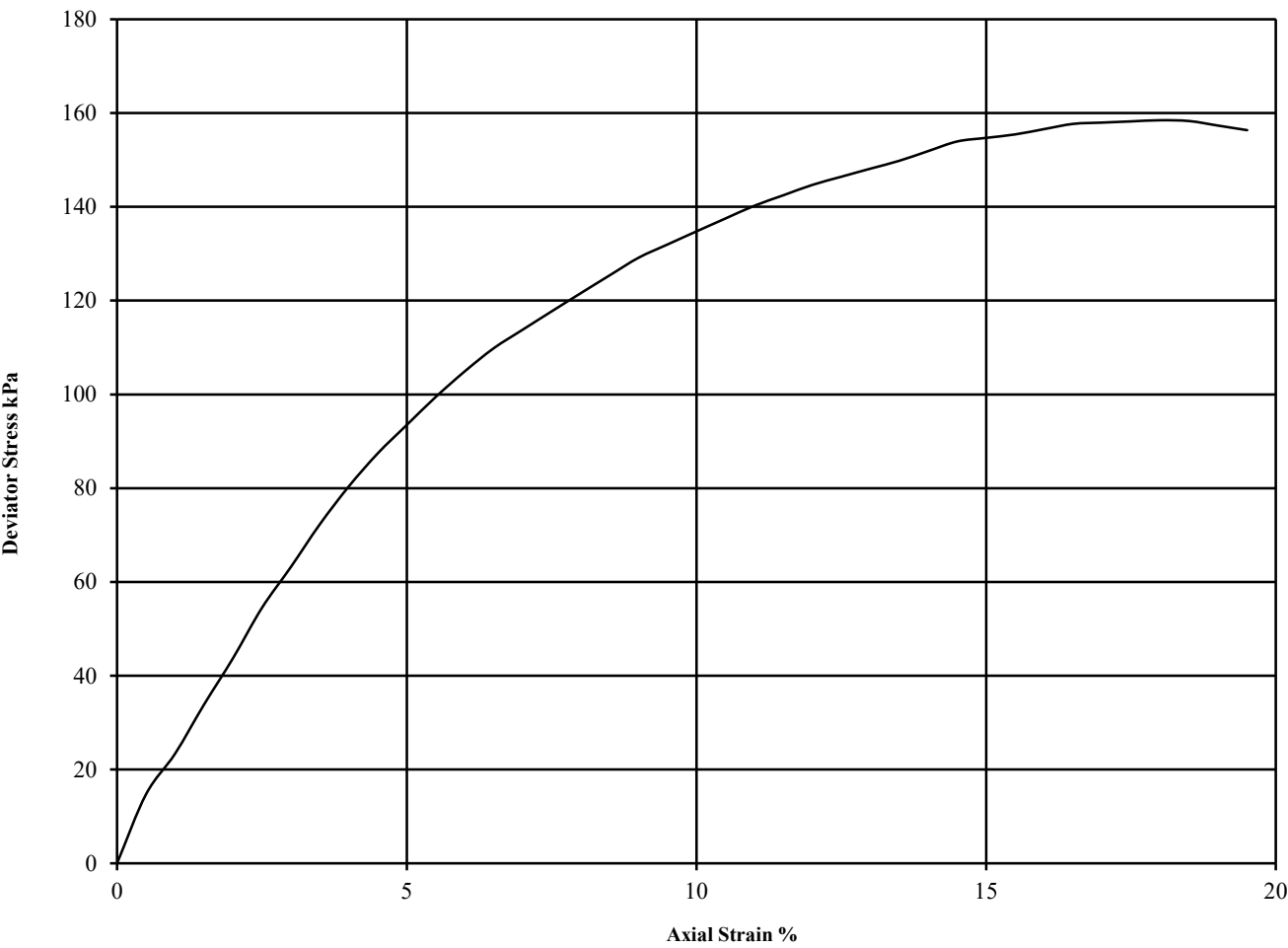
12

Base Depth (m):

2.45

Sample Type

UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk	Dry	Cell	Corr. Max.	Shear	Failure	Mode	Undisturbed Sample
		Density	Density	Pressure	Deviator	Strength	Strain	of	Sample taken from top of tube
		(Mg/m3)	(Mg/m3)	(kPa)	Stress	Cu	(%)	Failure	Rate of strain = 2 %/min
					(kPa)	(kPa)			Latex Membrane used 0.2 mm thick,
				θ_3	$(\theta_1-\theta_3)_f$	$^{1/2}(\theta_1-\theta_3)_f$			Correction applied 0.34
1	16	2.17	1.87	40	158	79	18.0	Plastic	See summary of soil descriptions

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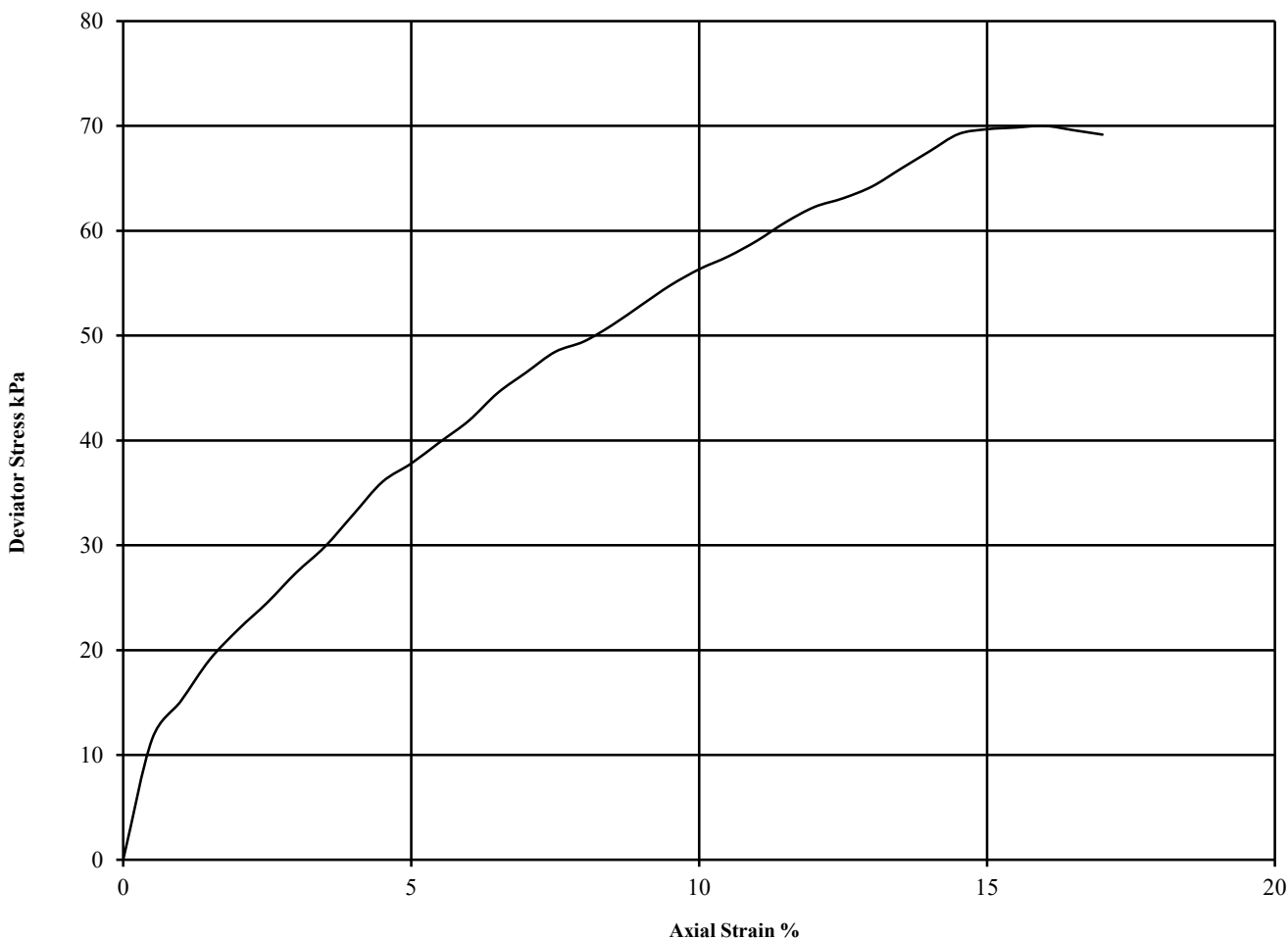
Hole Number: BH09

Top Depth (m): 3.00

Sample Number: 3

Base Depth (m): 3.45

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	18	2.12	1.80	60	70	35	16.0	Plastic	



Cowm Top

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UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

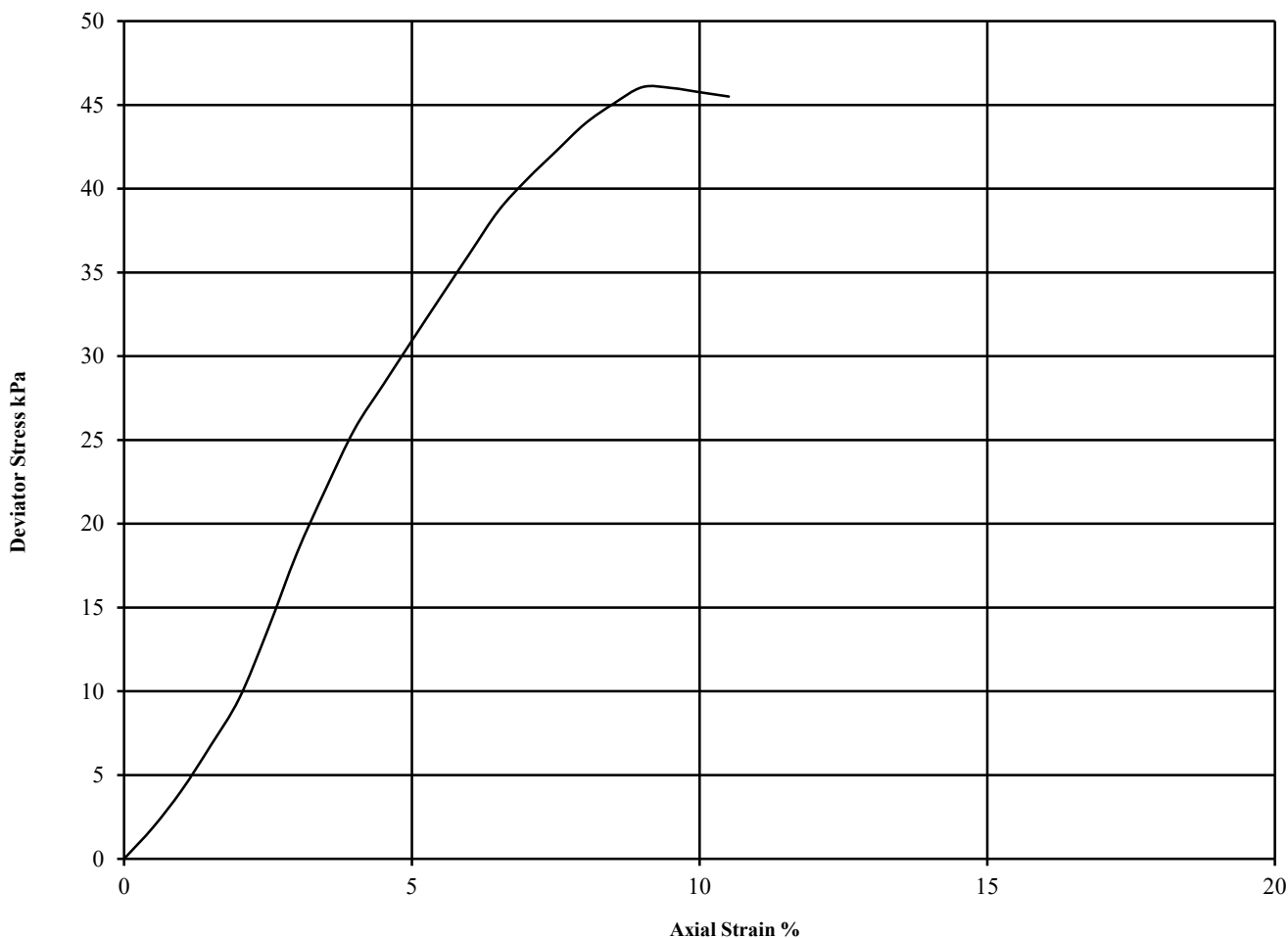
Hole Number: BH09

Top Depth (m): 5.00

Sample Number: 5

Base Depth (m): 5.45

Sample Type B



Diameter (mm):		100		Height (mm):		200		Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions		
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$					
1	24	1.97	1.59	100	46	23	9.0	Intermediate			



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UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

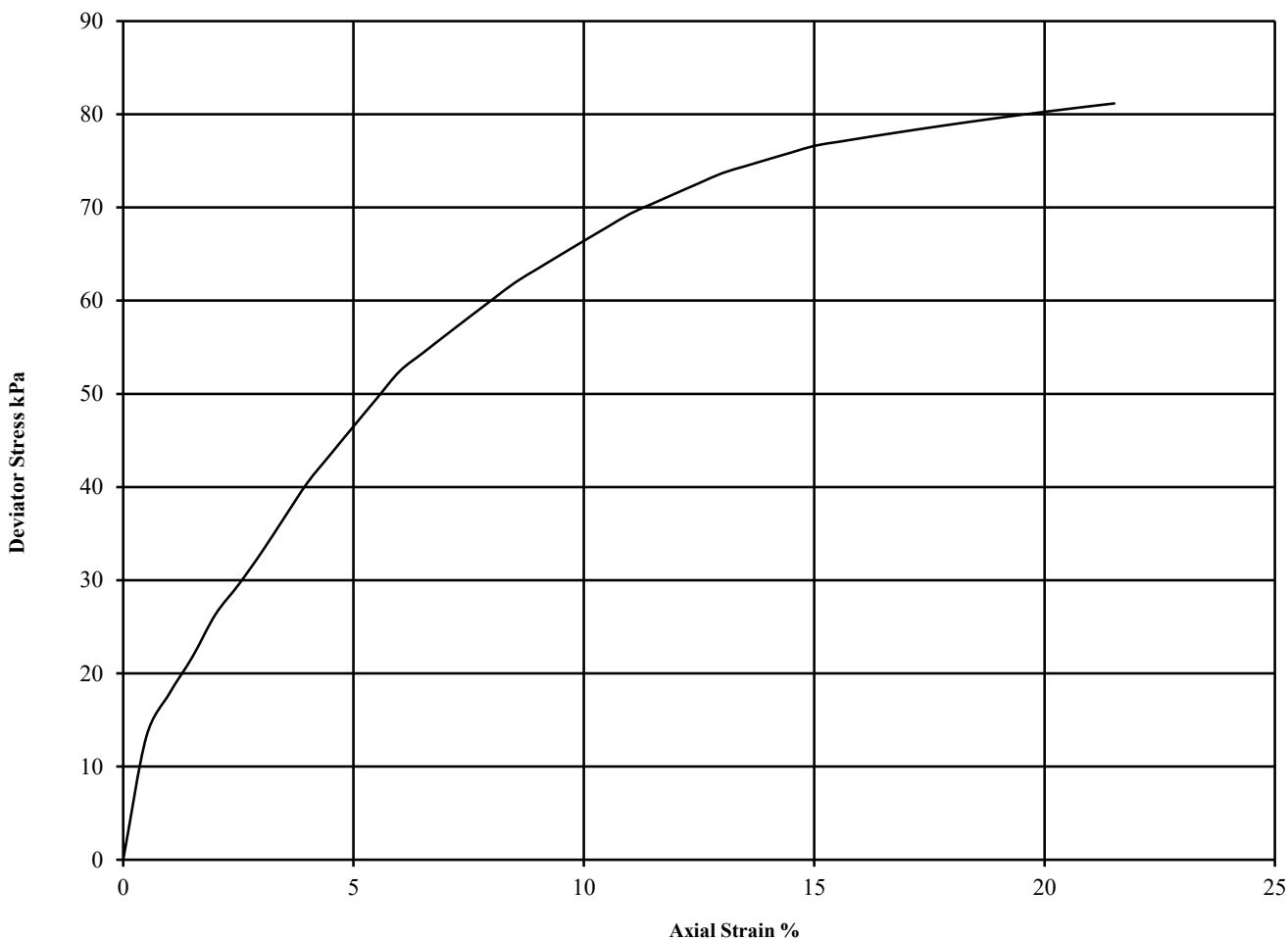
Hole Number: BH09

Top Depth (m): 9.50

Sample Number: 8

Base Depth (m): 9.95

Sample Type B



Diameter (mm):		100		Height (mm):		200		Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions		
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$					
1	23	2.05	1.66	190	81	41	21.5	Plastic			



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UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION
WITHOUT MEASUREMENT OF PORE PRESSURE
BS1377 : Part7 : 1990: Clause 8

Hole Number:

BH09

Top Depth (m):

11.00

Sample Number:

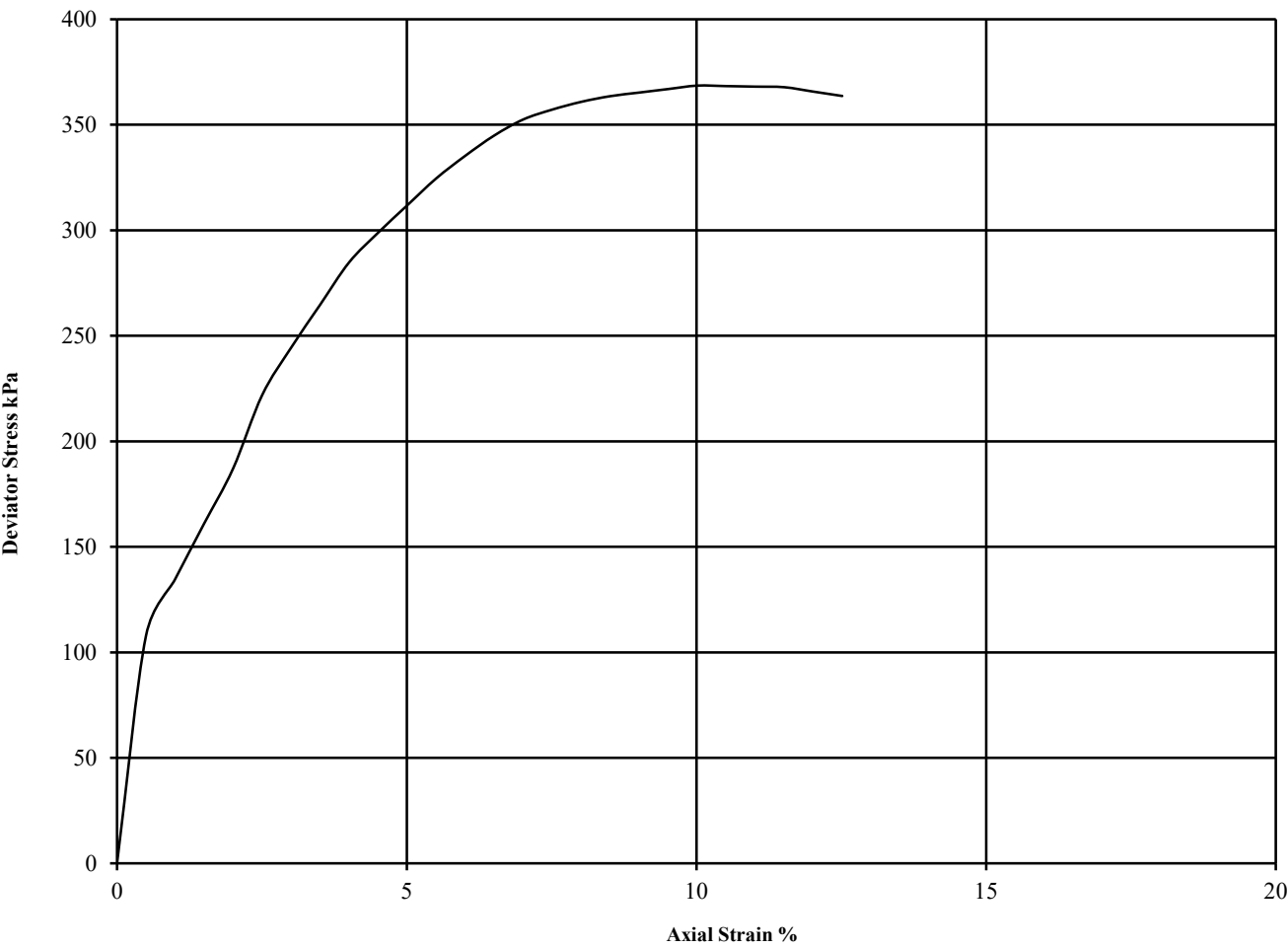
20

Base Depth (m):

11.45

Sample Type

UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max.	Shear	Failure Strain (%)	Mode of Failure	Undisturbed Sample
					Deviator Stress	Strength			Sample taken from top of tube
					(kPa)	Cu			Rate of strain = 2 %/min
					(kPa)	(kPa)			Latex Membrane used 0.2 mm thick,
					θ_3	$(\theta_1-\theta_3)_f$			$^{1/2}(\theta_1-\theta_3)_f$
1	13	2.23	1.97	22	369	184	10.0	Plastic	See summary of soil descriptions

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

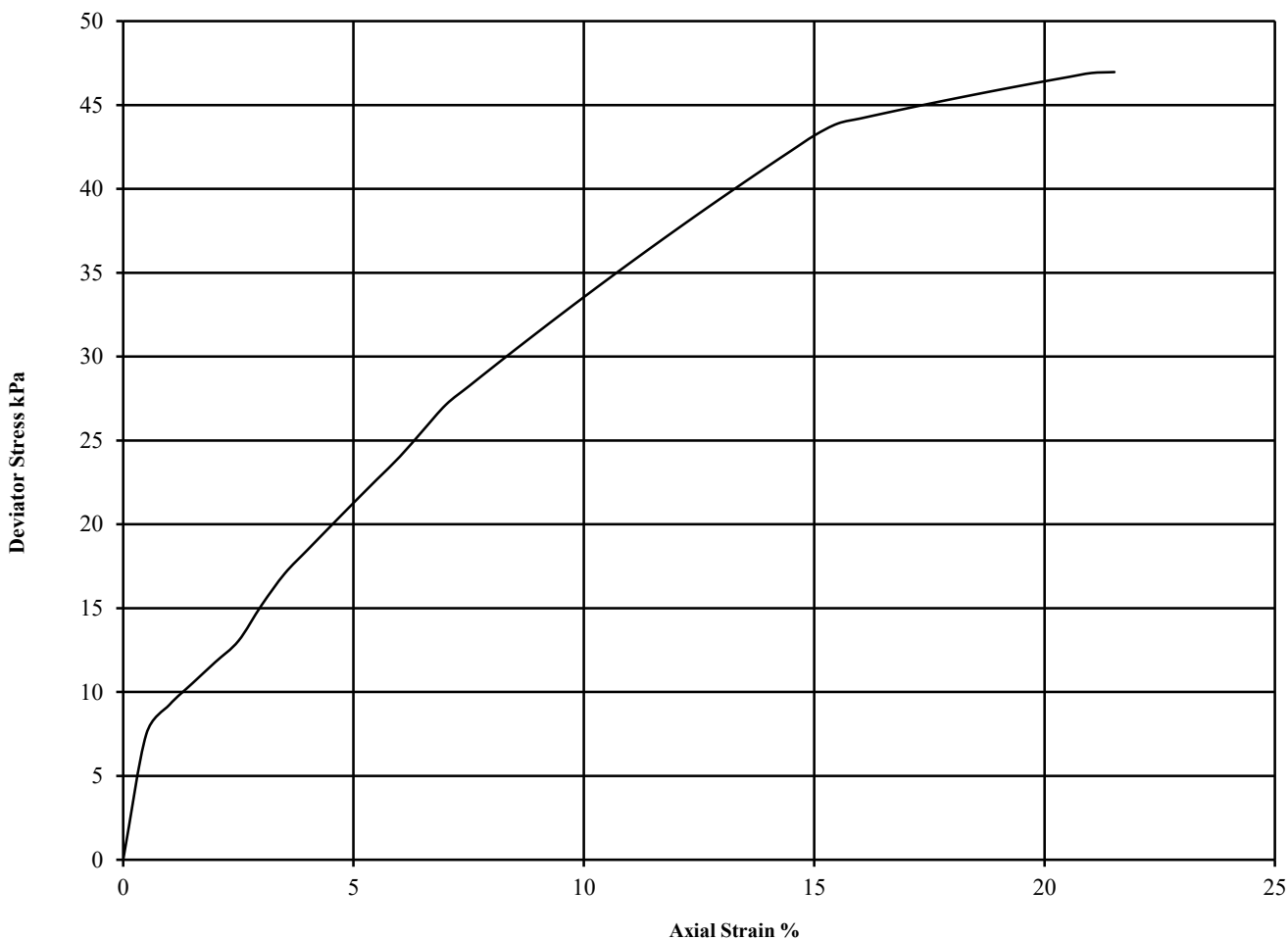
Hole Number: BH10

Top Depth (m): 1.50

Sample Number: 3

Base Depth (m): 1.95

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	18	2.10	1.78	30	47	23	21.5	Intermediate	



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UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

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BS1377 : Part7 : 1990: Clause 8

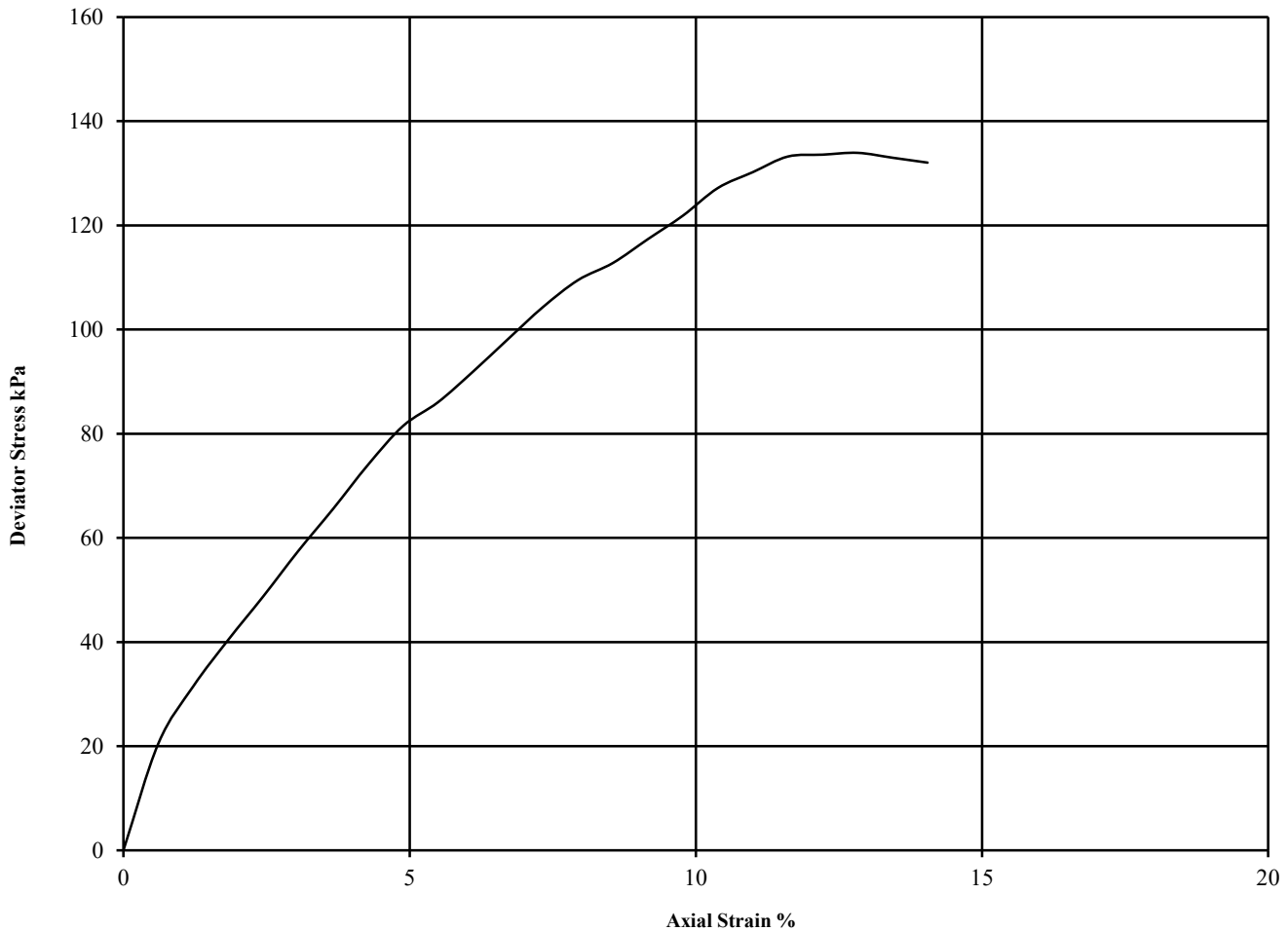
Hole Number: BH10

Top Depth (m): 3.00

Sample Number: 5

Base Depth (m): 3.45

Sample Type UT



Diameter (mm):		102	Height (mm):		167	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			Sample taken from top of tube
									Rate of strain = 2 %/min
									Latex Membrane used 0.2 mm thick,
									Correction applied 0.35
1	16	2.14	1.85	60	134	67	12.8	Plastic	See summary of soil descriptions



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UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION
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Hole Number:

BH10

Top Depth (m):

4.50

Sample Number:

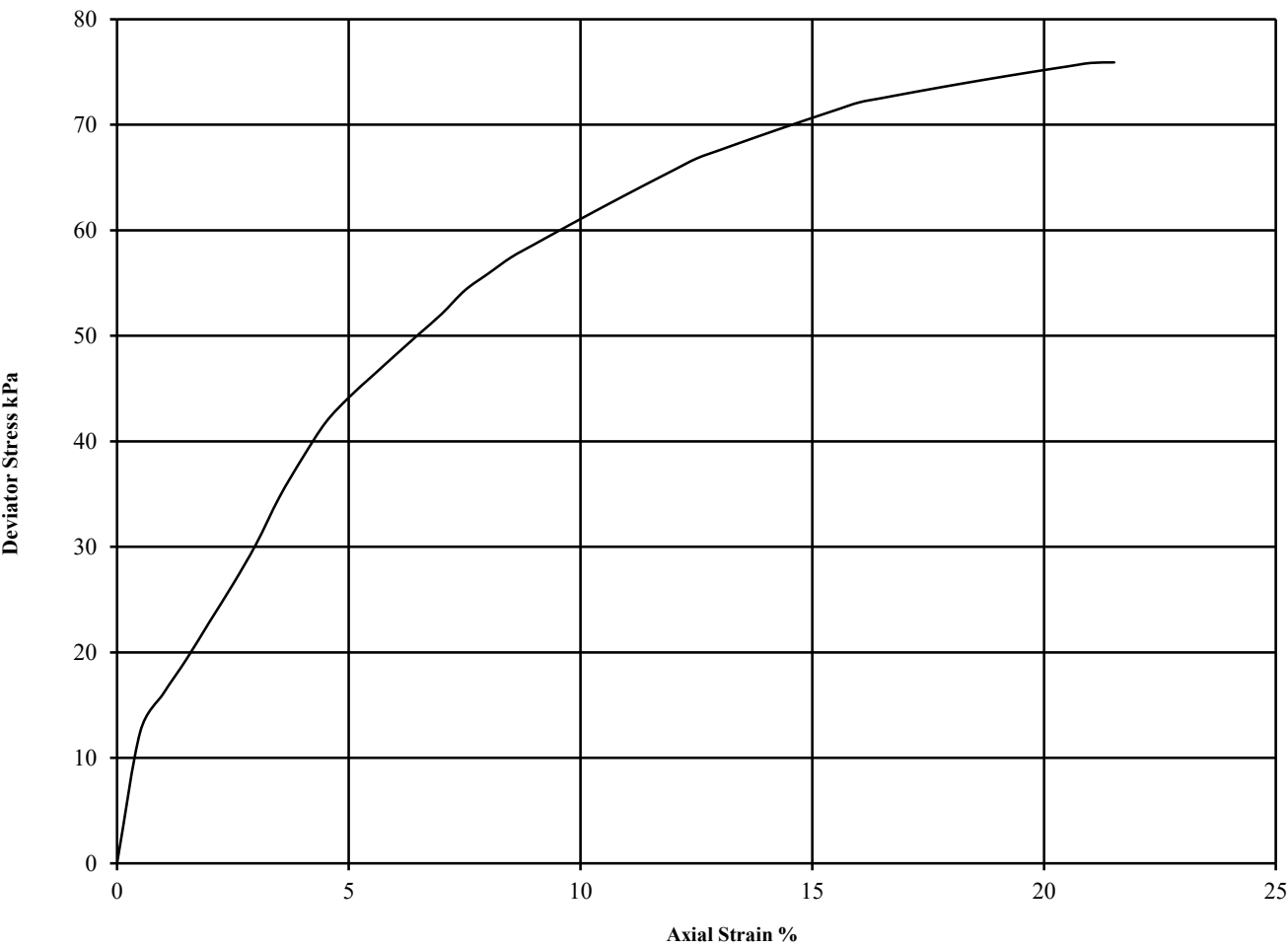
6

Base Depth (m):

4.95

Sample Type

B



Diameter (mm):		100		Height (mm):		200		Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions		
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$					
1	20	2.04	1.70	90	76	38	21.5	Plastic			



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UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

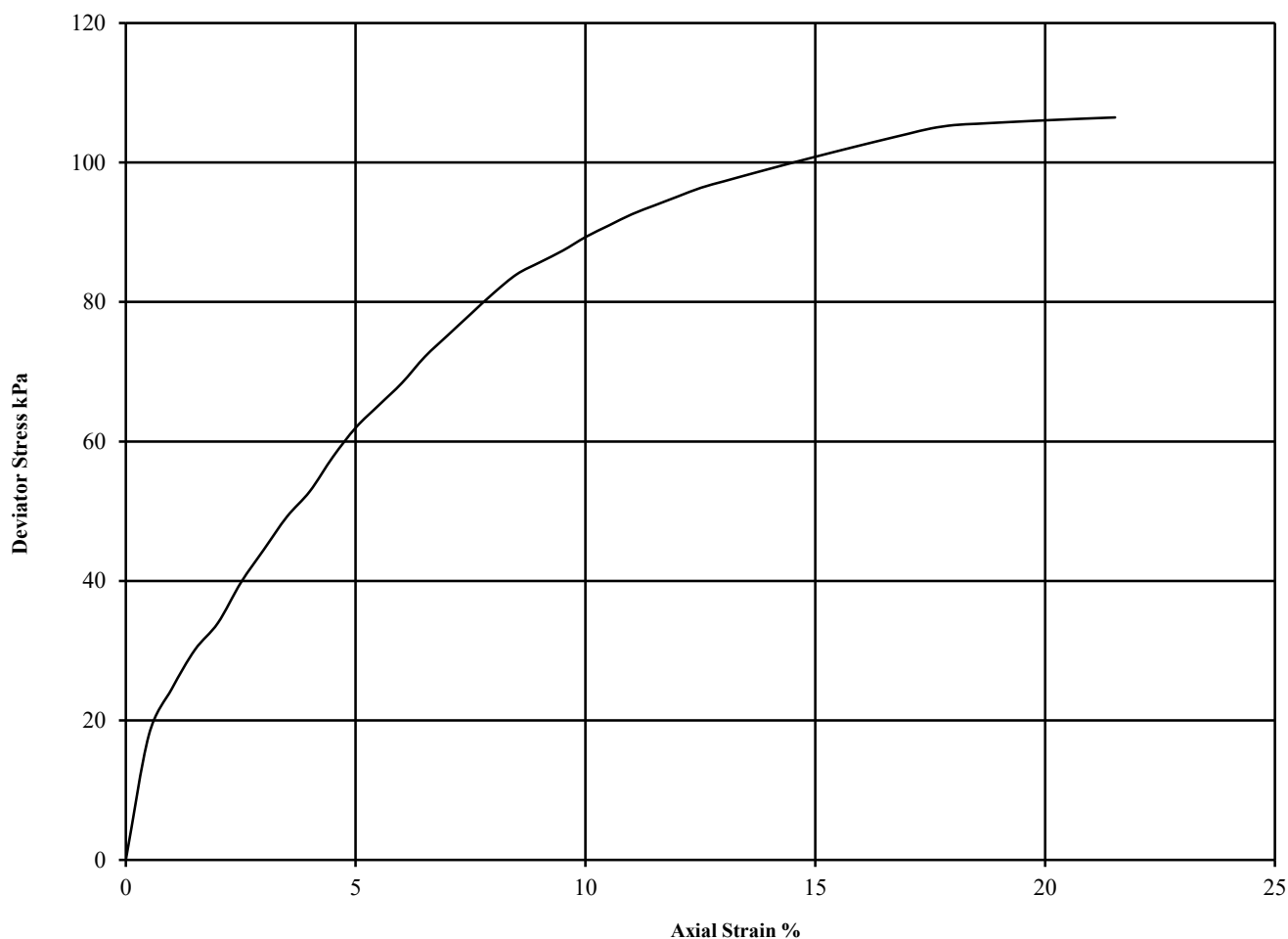
Hole Number: BH11

Top Depth (m): 1.50

Sample Number: 5

Base Depth (m): 1.95

Sample Type B



Diameter (mm):		100	Height (mm):		200	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Disturbed Sample Remoulded with 2.5kg effort Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	24	2.04	1.66	30	106	53	21.5	Plastic	



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UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

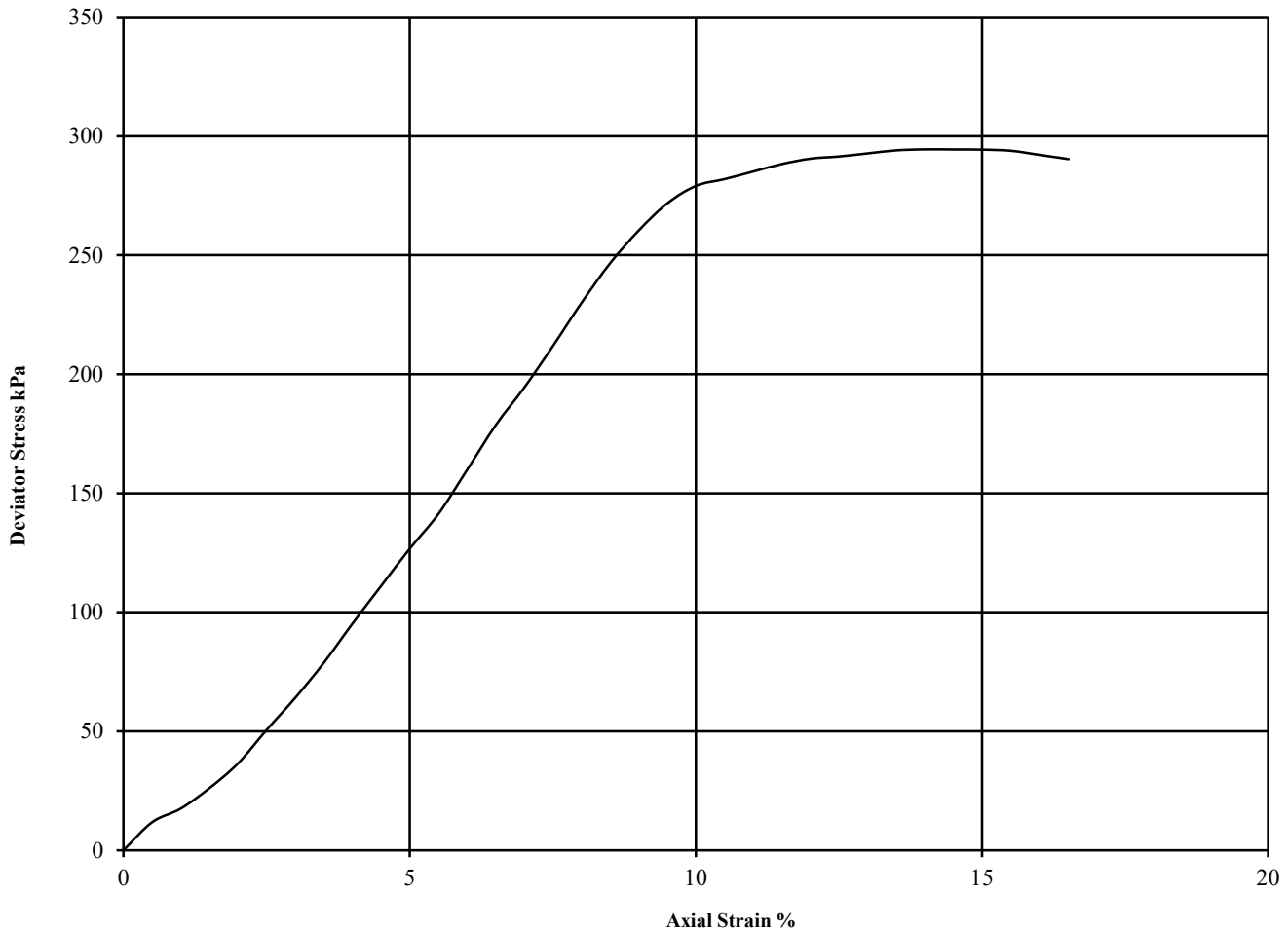
Hole Number: BH11

Top Depth (m): 7.50

Sample Number: 15

Base Depth (m): 7.95

Sample Type UT



Diameter (mm):		102		Height (mm):		204		Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions		
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$					
1	19	2.13	1.78	150	294	147	14.0	Intermediate			



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UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

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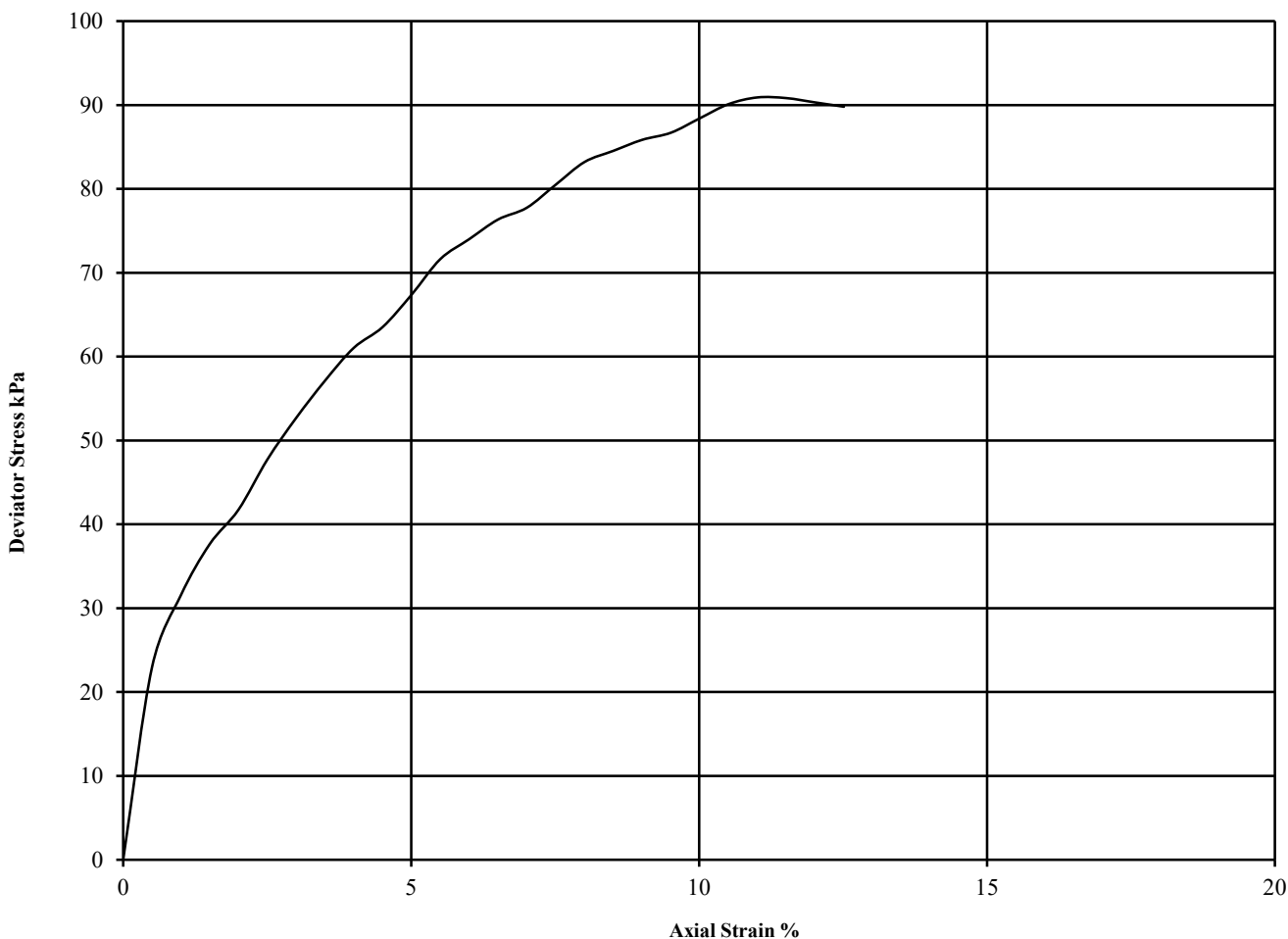
Hole Number: BH11

Top Depth (m): 13.50

Sample Number: 22

Base Depth (m): 13.95

Sample Type UT



Diameter (mm):		102	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	22	2.09	1.71	270	91	45	11.0	Plastic	



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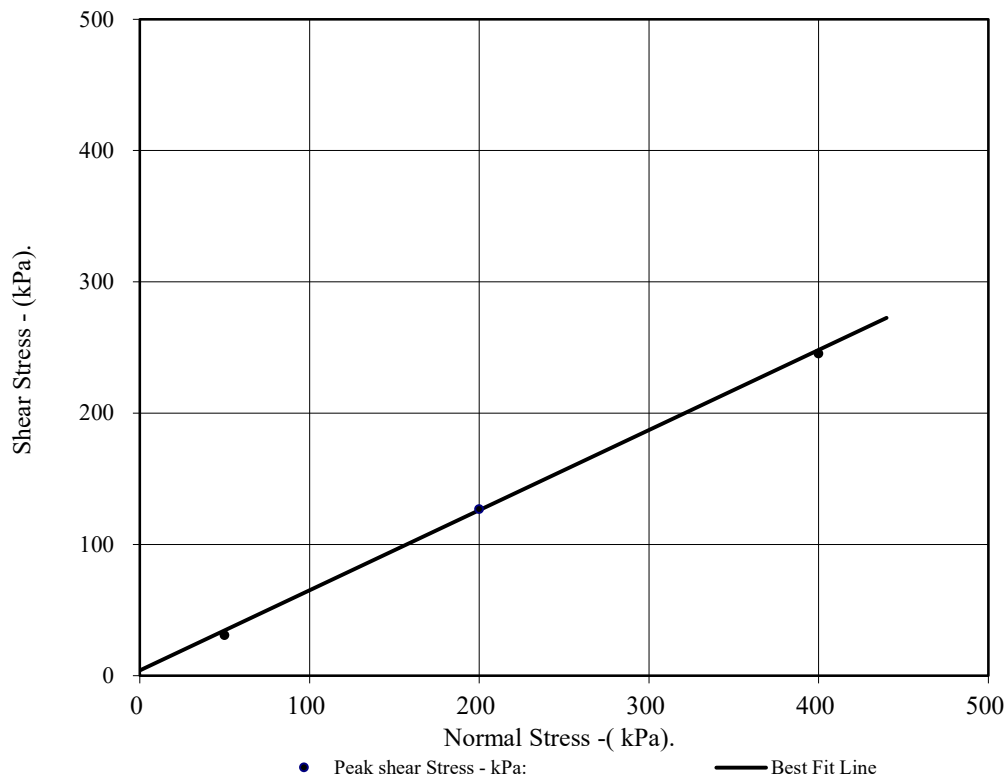
Client Ref:

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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH02		Top Depth:	7.00	
Sample Number:	13		Base Depth:	7.50	
Sample Conditions:	Submerged		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using 2.5kg effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			21	21	21
Bulk Density - Mg/m3:			2.04	2.04	2.04
Dry Density - Mg/m3:			1.68	1.68	1.68
Voids Ratio:			0.577	0.577	0.577
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			23.74	21.21	18.38
Shearing Stage					
Rate of Strain - mm/min			0.046	0.046	0.046
Displacement at peak shear stress - mm			2.40	9.90	10.19
Peak shear Stress - kPa:			31	127	246
Final Consolidated Conditions					
Moisture Content - %:			24	23	22
Bulk Density - Mg/m3:			2.15	2.40	2.77
Dry Density - Mg/m3:			1.73	1.95	2.28
Peak					
Angle of Shearing Resistance:(θ)			31		
Effective Cohesion - kPa:			4		



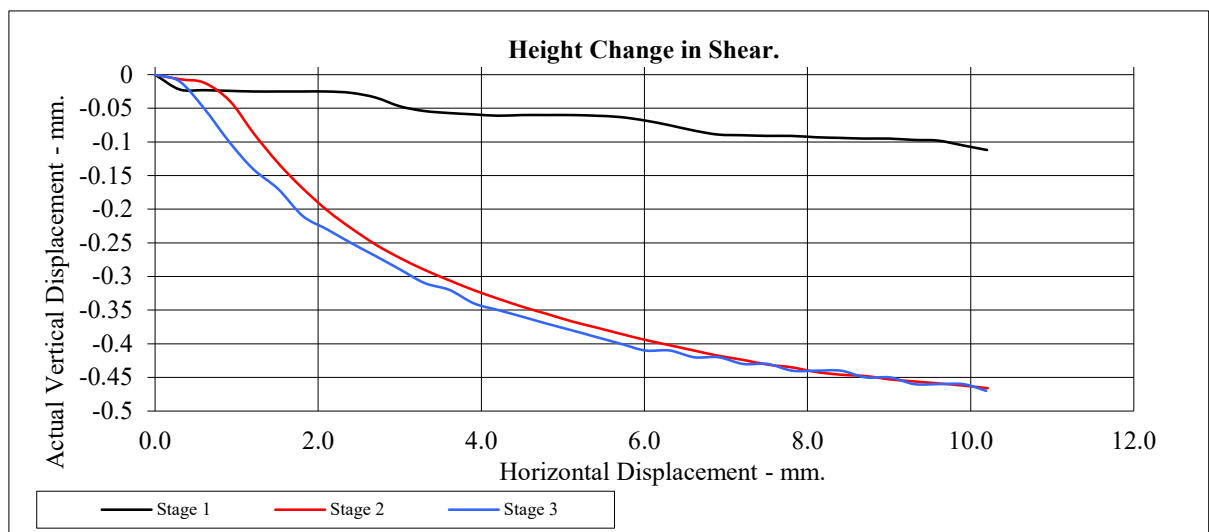
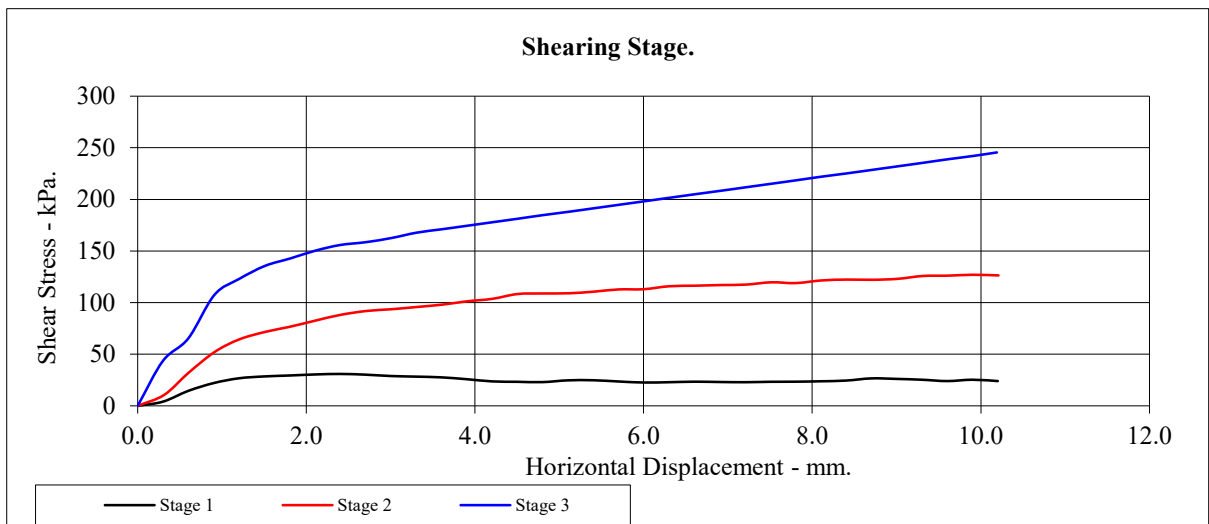
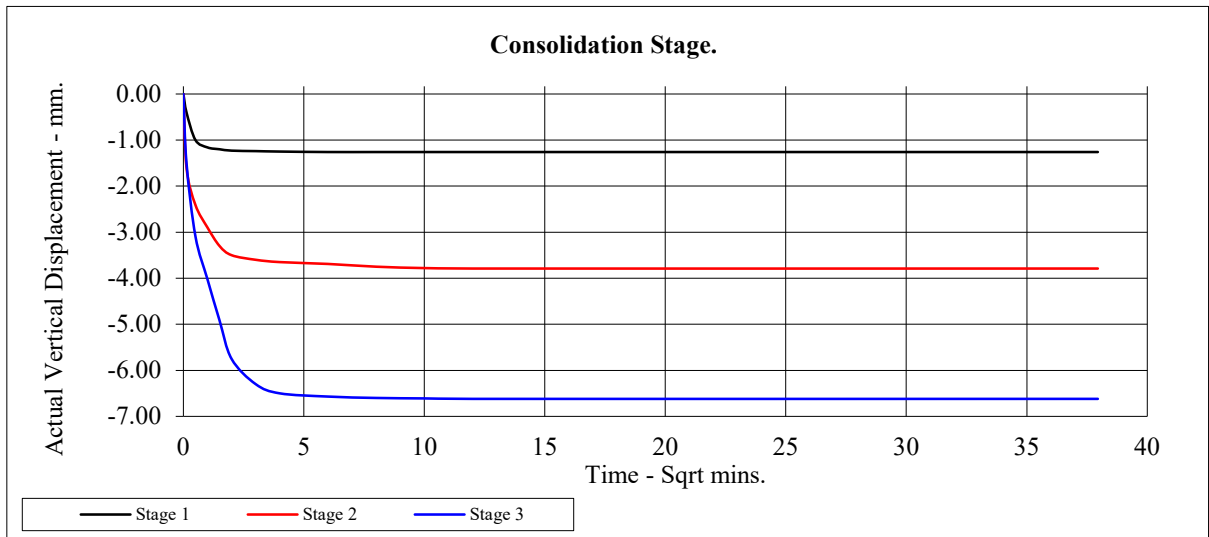
Cowm Top

Contract No:
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Client Ref:
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH02	Top Depth:	7.00
Sample Number:	13	Base Depth:	7.50



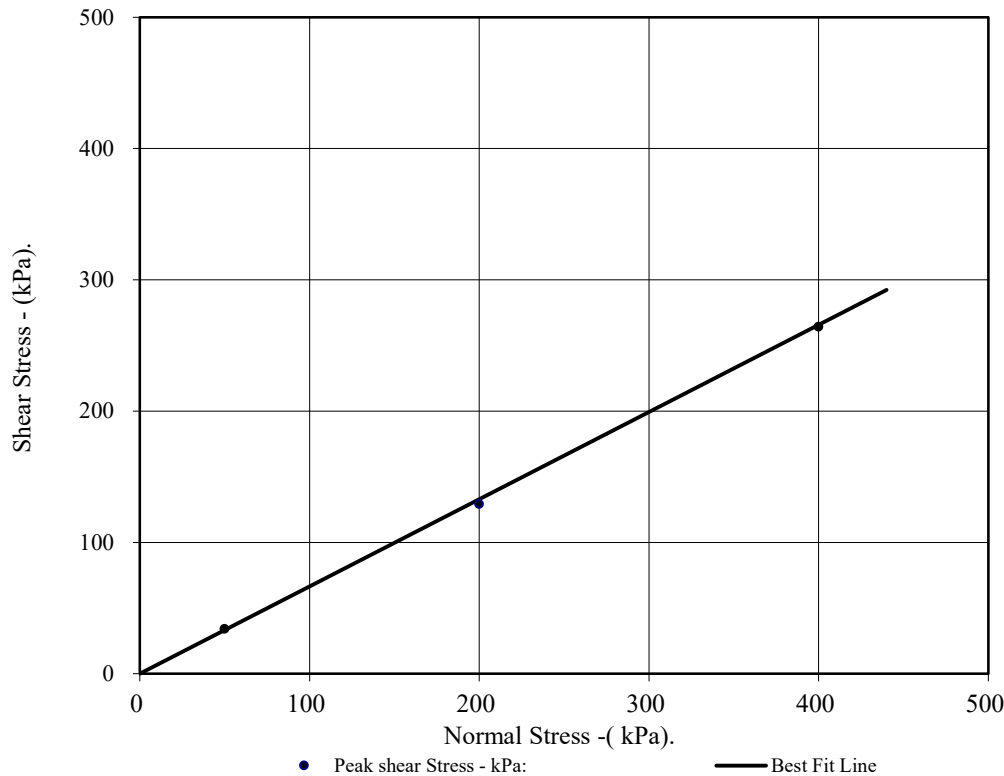
Cowm Top

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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH03		Top Depth:	1.20	
Sample Number:	5		Base Depth:	1.65	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			23	23	23
Bulk Density - Mg/m3:			2.11	2.11	2.11
Dry Density - Mg/m3:			1.72	1.72	1.72
Voids Ratio:			0.537	0.537	0.537
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.74	24.43	23.80
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			3.30	3.90	3.90
Peak shear Stress - kPa:			34	129	264
Final Consolidated Conditions					
Moisture Content - %:			21	20	20
Bulk Density - Mg/m3:			2.13	2.16	2.22
Dry Density - Mg/m3:			1.77	1.80	1.85
Peak					
Angle of Shearing Resistance:(θ)			34		
Effective Cohesion - kPa:			0		



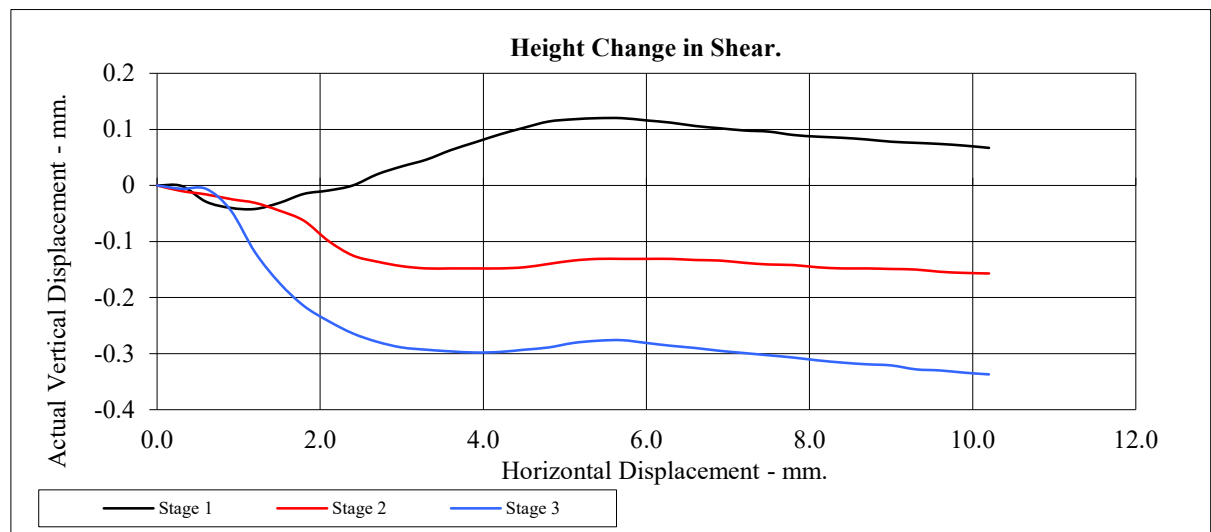
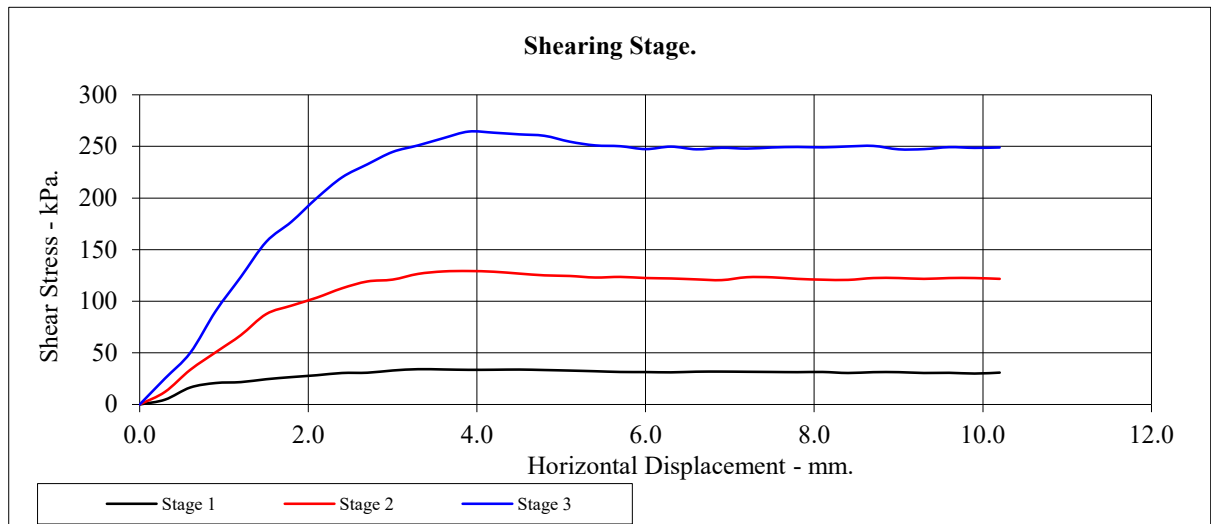
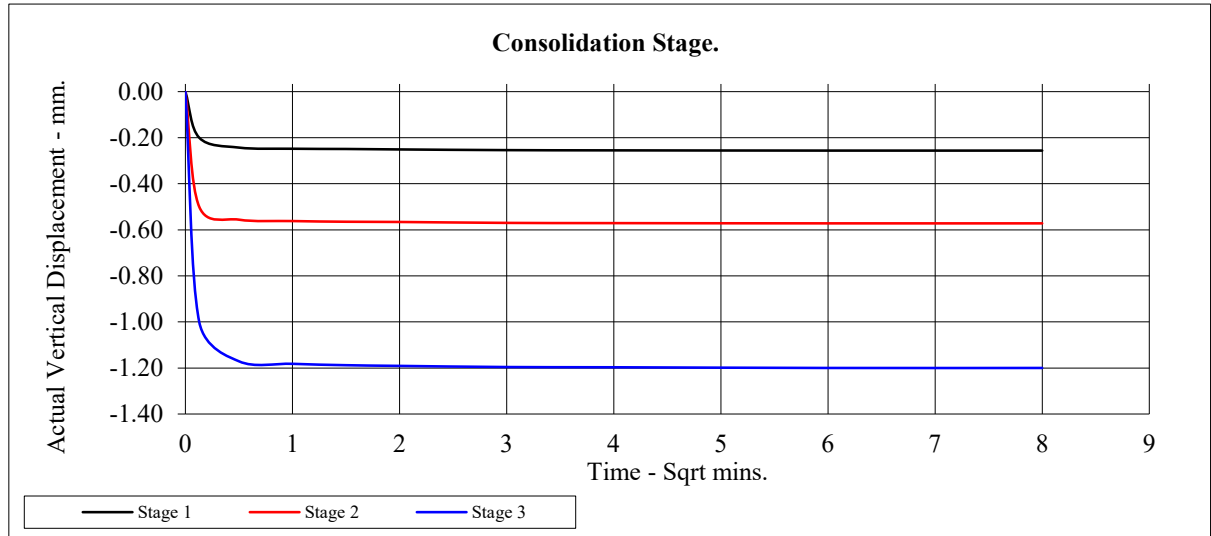
Cowm Top

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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH03	Top Depth:	1.20
Sample Number:	5	Base Depth:	1.65



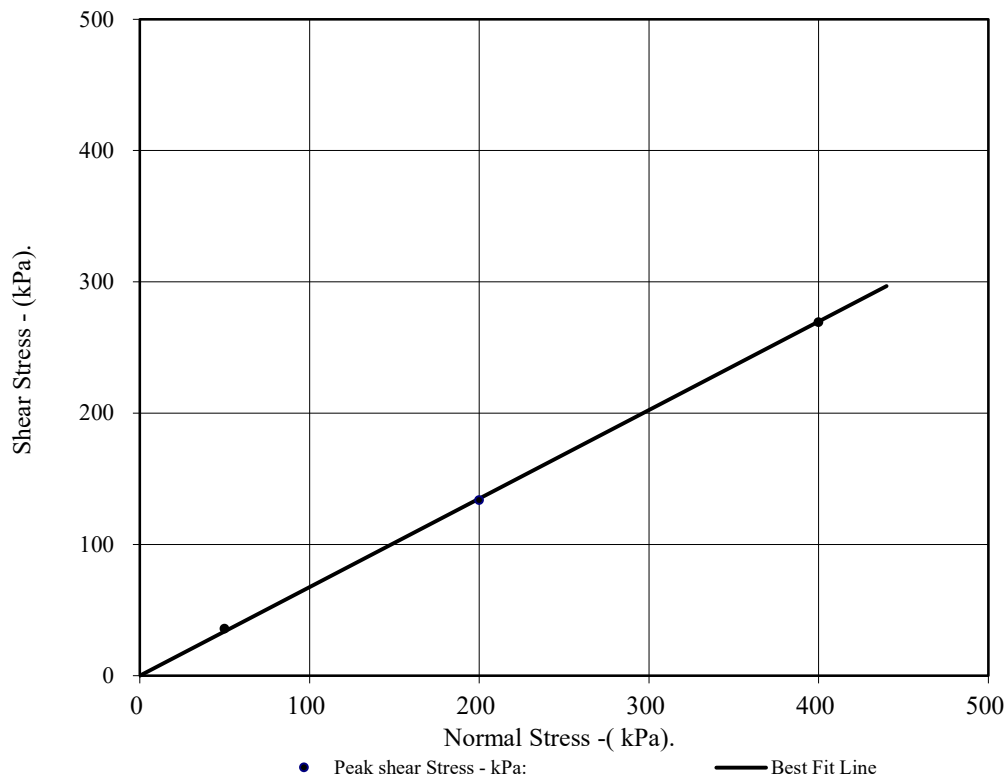
Cowm Top

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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH03		Top Depth:	5.00	
Sample Number:	11		Base Depth:	5.50	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			22	22	22
Bulk Density - Mg/m3:			2.04	2.04	2.04
Dry Density - Mg/m3:			1.67	1.67	1.67
Voids Ratio:			0.585	0.585	0.585
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			23.57	22.17	21.98
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			9.00	6.30	7.80
Peak shear Stress - kPa:			36	134	269
Final Consolidated Conditions					
Moisture Content - %:			21	20	20
Bulk Density - Mg/m3:			2.16	2.30	2.32
Dry Density - Mg/m3:			1.79	1.91	1.93
Peak					
Angle of Shearing Resistance:(θ)			34		
Effective Cohesion - kPa:			0		



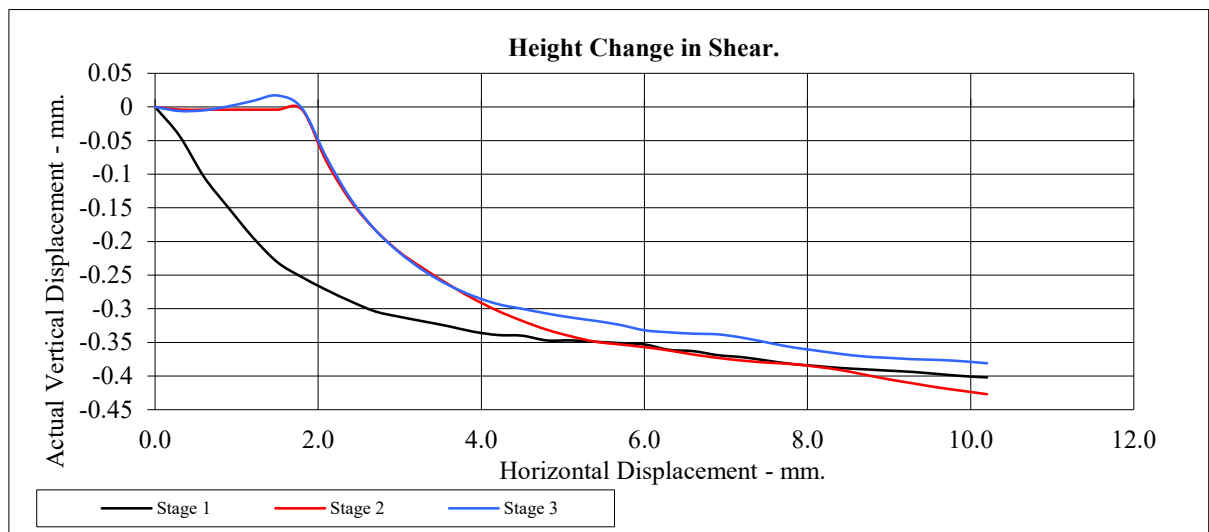
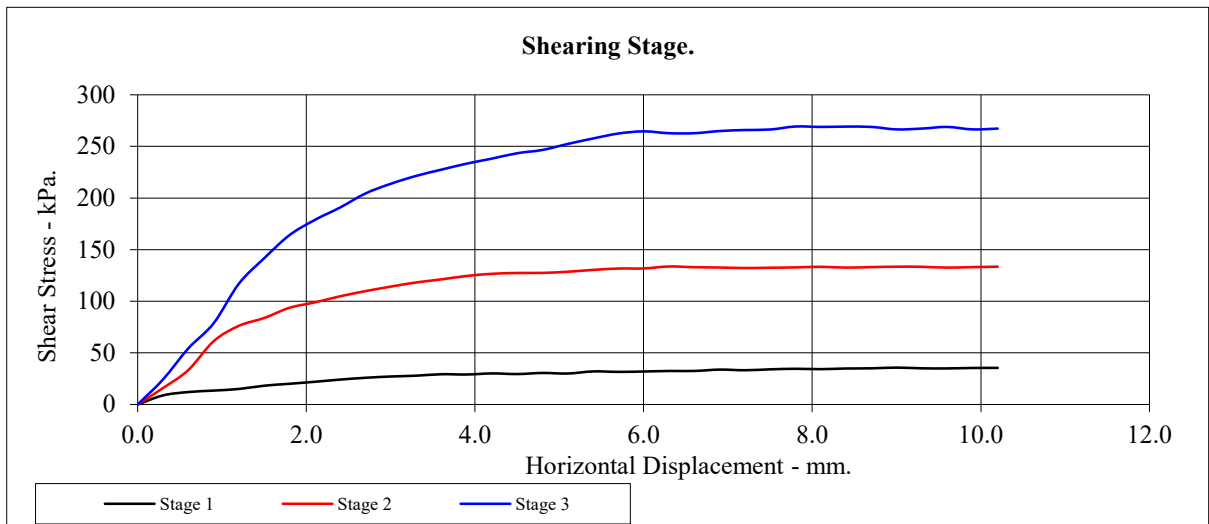
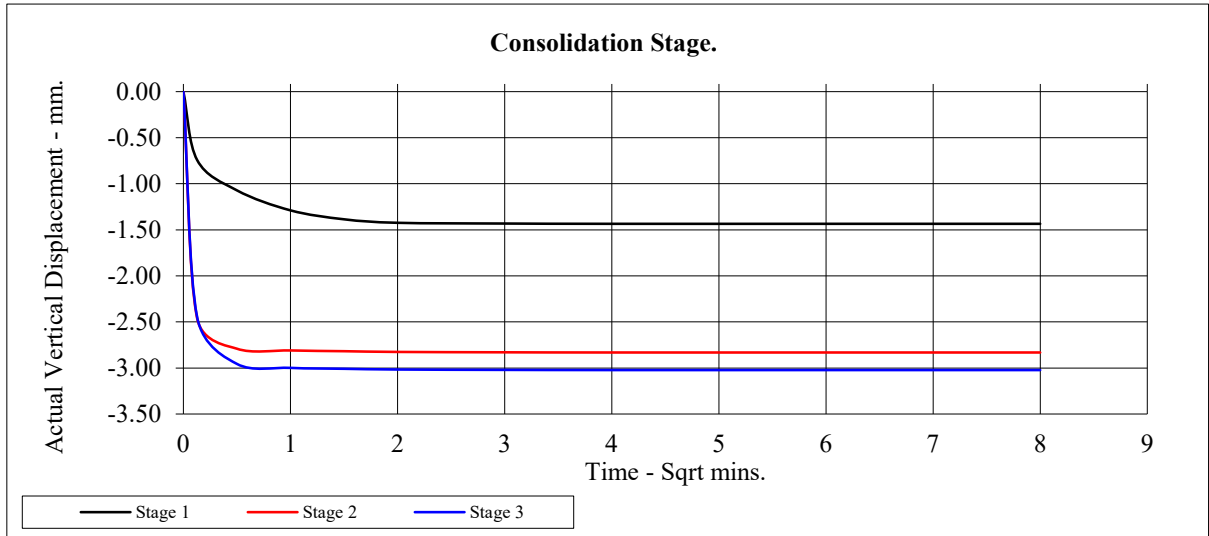
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Client Ref:
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH03	Top Depth:	5.00
Sample Number:	11	Base Depth:	5.50



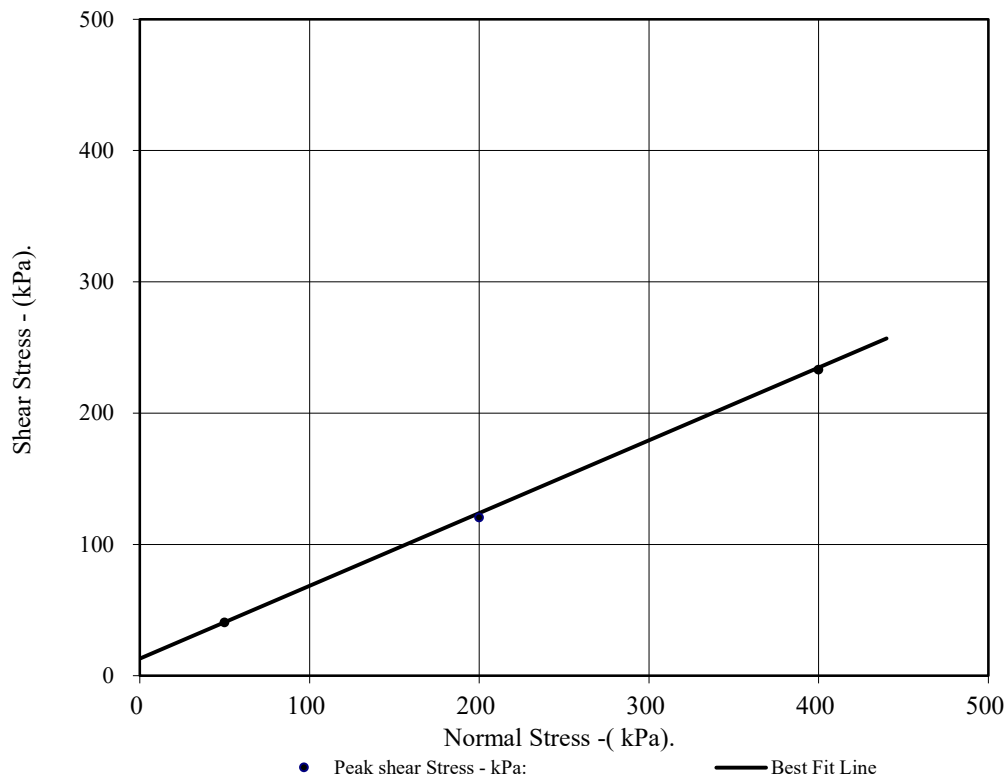
Cowm Top

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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH03		Top Depth:	12.50	
Sample Number:	18		Base Depth:	13.00	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			21	21	21
Bulk Density - Mg/m3:			2.01	2.01	2.01
Dry Density - Mg/m3:			1.67	1.67	1.67
Voids Ratio:			0.587	0.587	0.587
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.01	23.34	22.98
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			3.90	2.70	6.60
Peak shear Stress - kPa:			41	121	233
Final Consolidated Conditions					
Moisture Content - %:			17	16	16
Bulk Density - Mg/m3:			2.10	2.16	2.19
Dry Density - Mg/m3:			1.79	1.85	1.89
Peak					
Angle of Shearing Resistance:(θ)			29		
Effective Cohesion - kPa:			13		



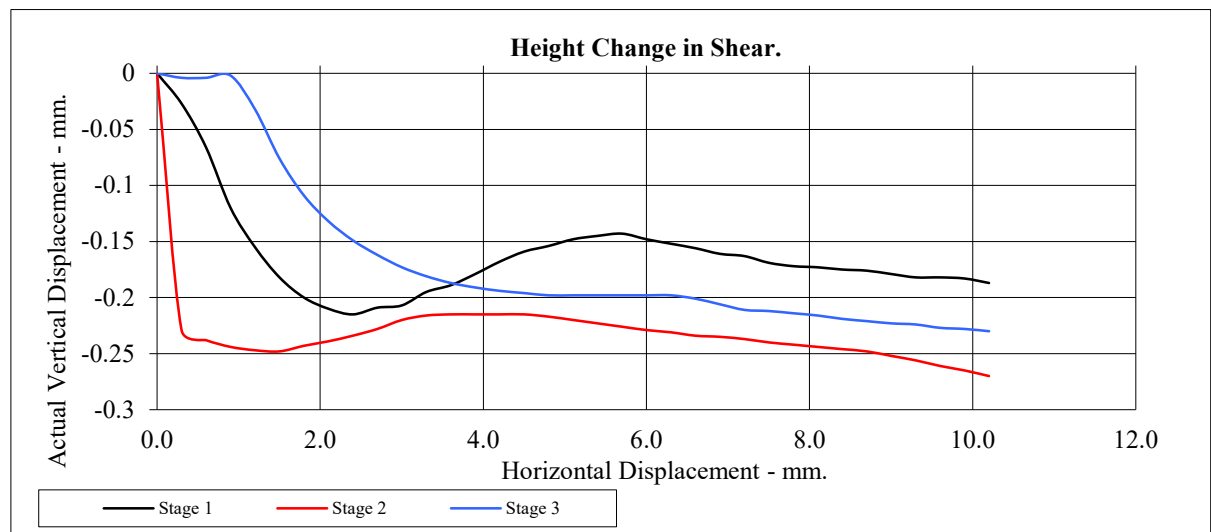
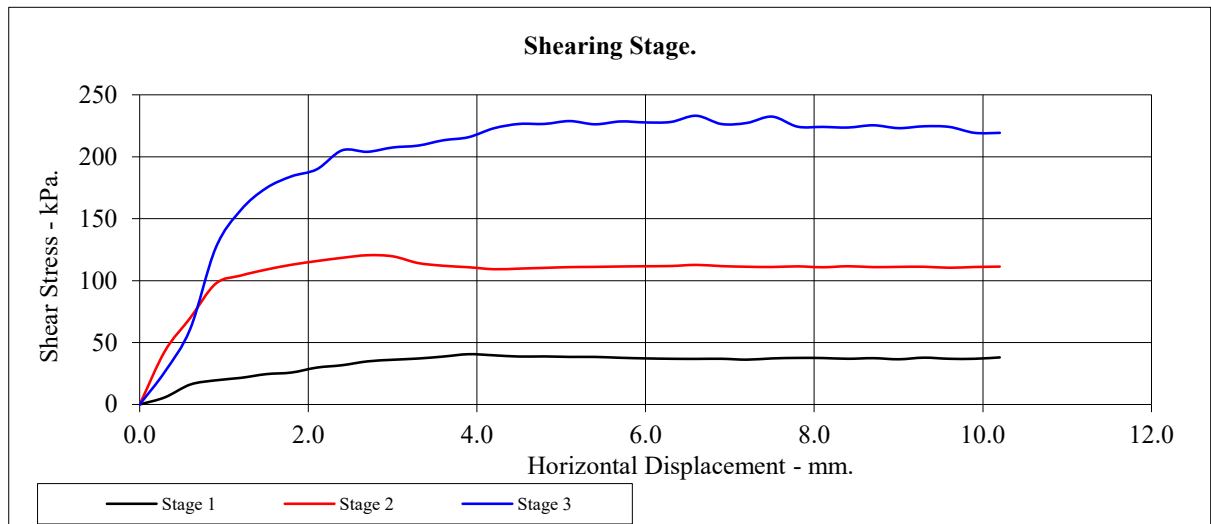
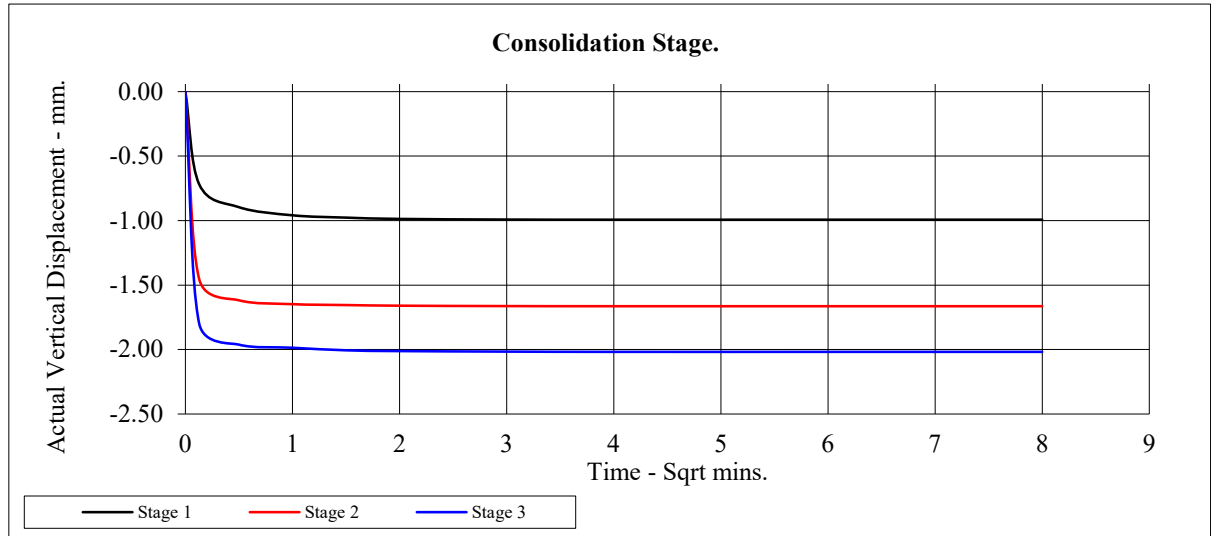
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH03	Top Depth:	12.50
Sample Number:	18	Base Depth:	13.00



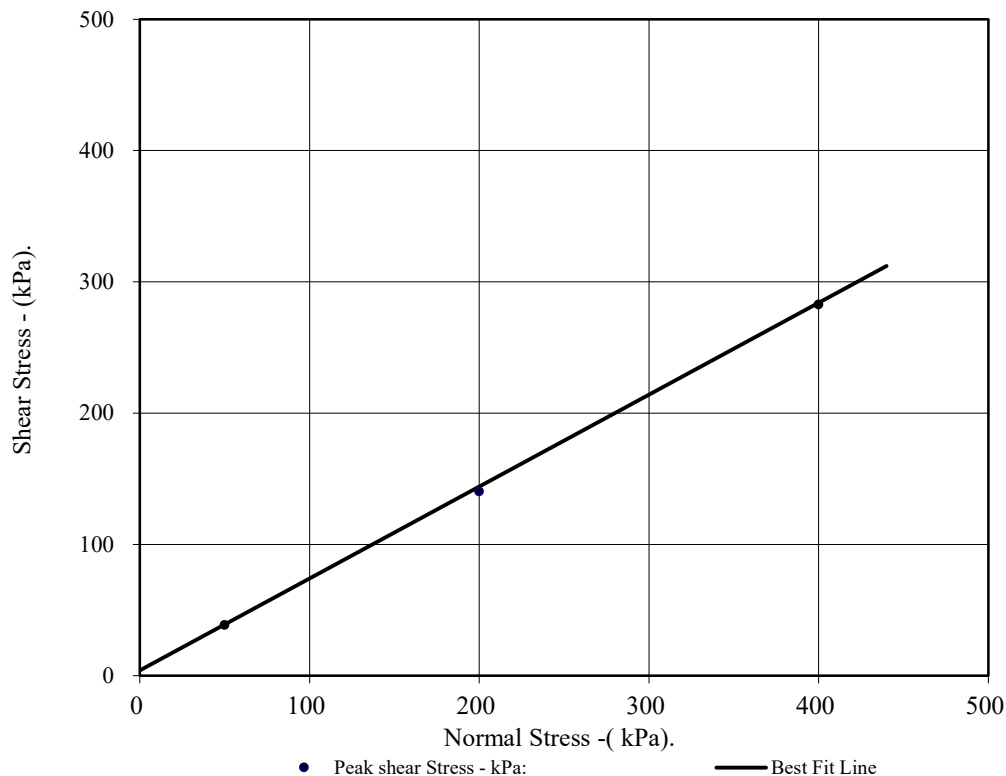
Cowm Top

Contract No:
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Client Ref:
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH04		Top Depth:	3.00	
Sample Number:	7		Base Depth:	3.45	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			19	19	19
Bulk Density - Mg/m3:			2.03	2.03	2.03
Dry Density - Mg/m3:			1.71	1.71	1.71
Voids Ratio:			0.548	0.548	0.548
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.73	24.58	24.18
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			3.00	3.90	8.40
Peak shear Stress - kPa:			39	140	283
Final Consolidated Conditions					
Moisture Content - %:			18	17	17
Bulk Density - Mg/m3:			2.05	2.06	2.10
Dry Density - Mg/m3:			1.73	1.76	1.80
Peak					
Angle of Shearing Resistance:(θ)			35		
Effective Cohesion - kPa:			4		



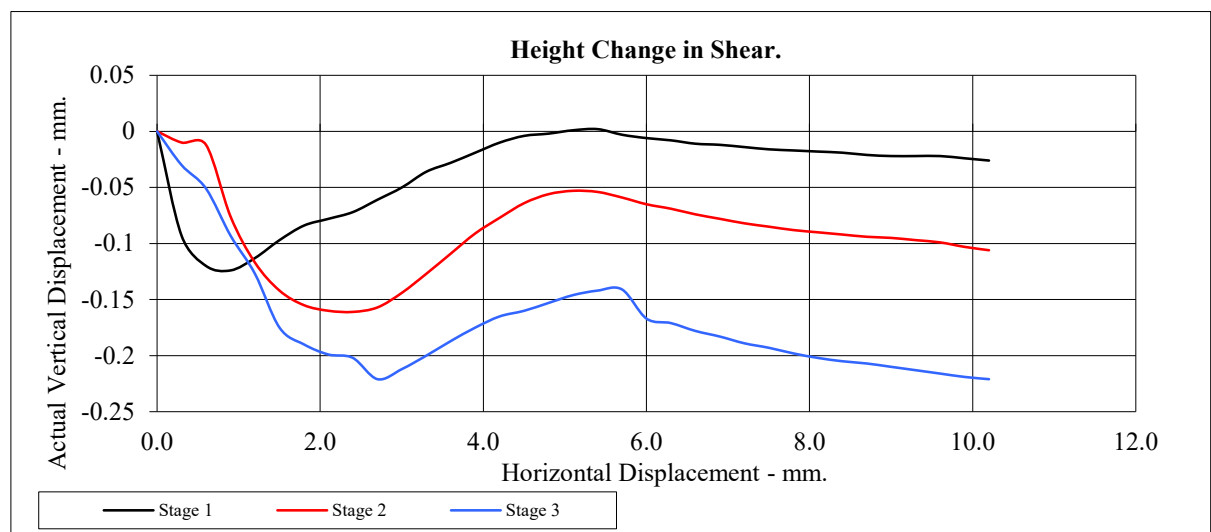
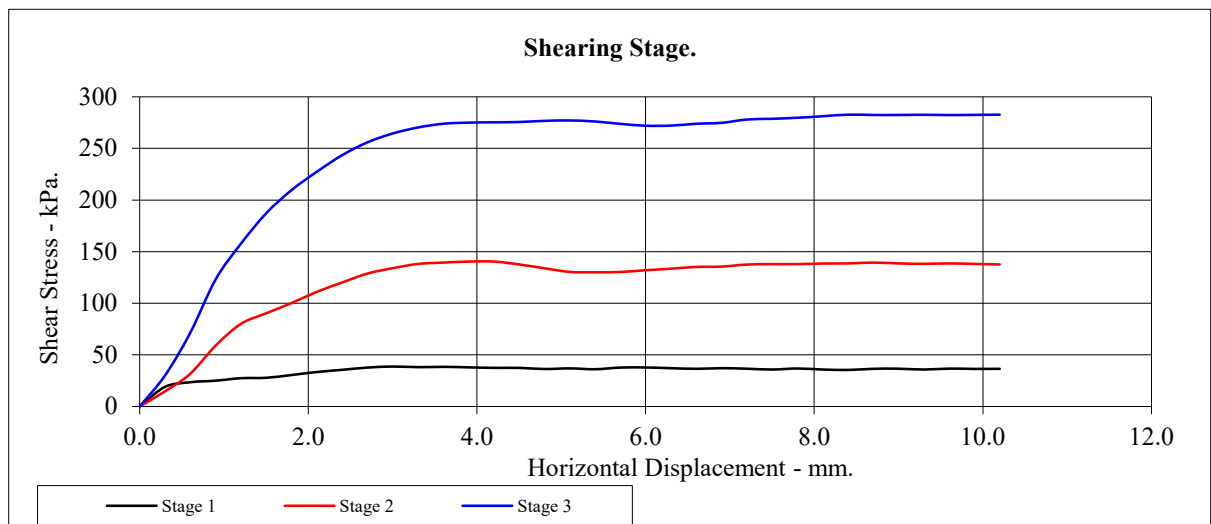
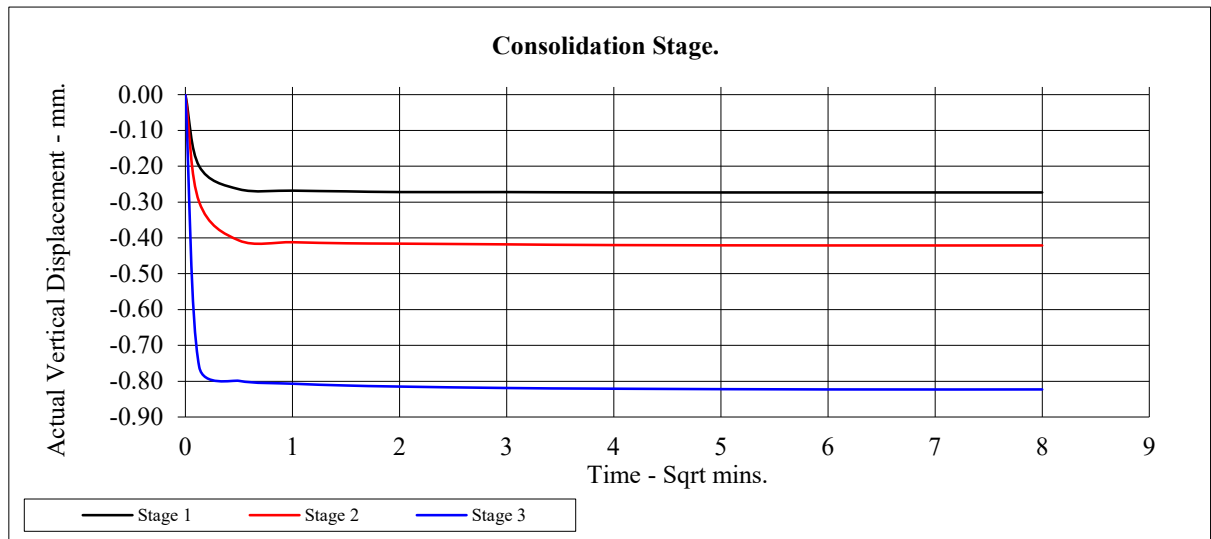
Cowm Top

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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH04	Top Depth:	3.00
Sample Number:	7	Base Depth:	3.45



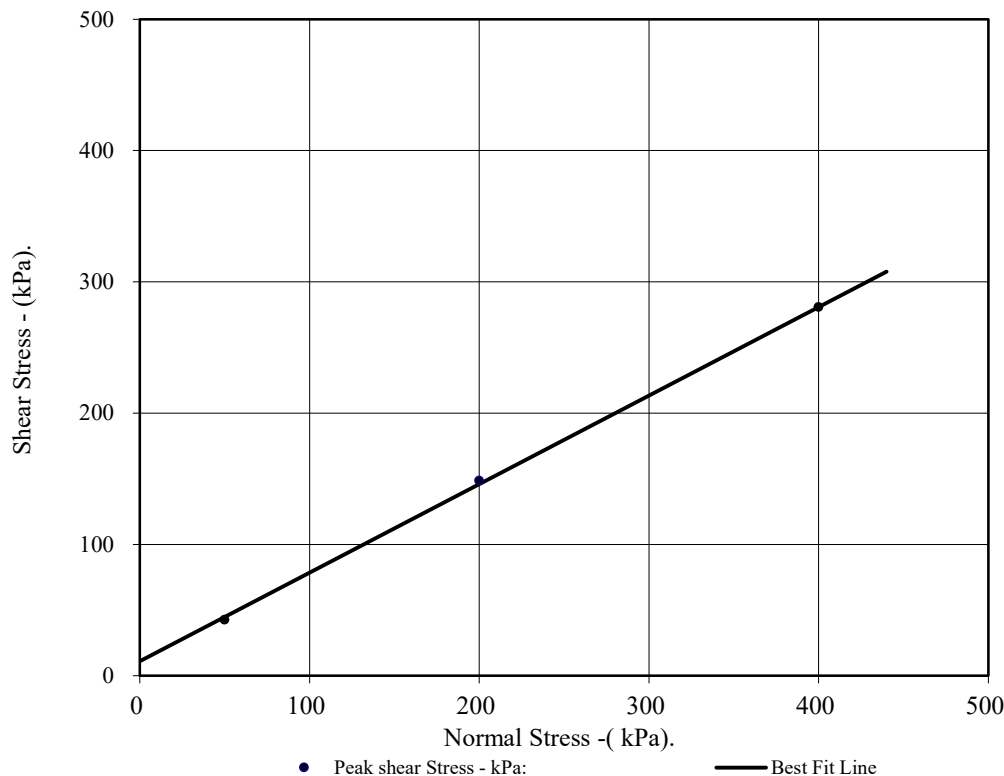
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH04		Top Depth:	6.00	
Sample Number:	11		Base Depth:	6.45	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			22	22	22
Bulk Density - Mg/m3:			2.01	2.01	2.01
Dry Density - Mg/m3:			1.64	1.64	1.64
Voids Ratio:			0.612	0.612	0.612
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.65	24.38	24.26
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			2.70	4.80	4.50
Peak shear Stress - kPa:			43	149	281
Final Consolidated Conditions					
Moisture Content - %:			20	20	19
Bulk Density - Mg/m3:			2.03	2.06	2.07
Dry Density - Mg/m3:			1.69	1.72	1.74
Peak					
Angle of Shearing Resistance:(θ)			34		
Effective Cohesion - kPa:			11		



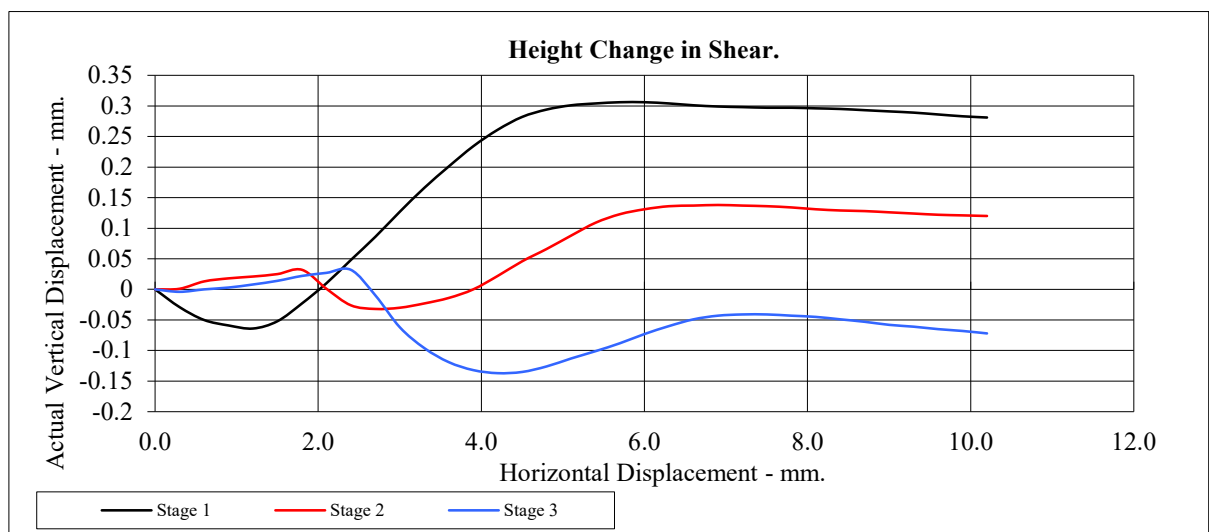
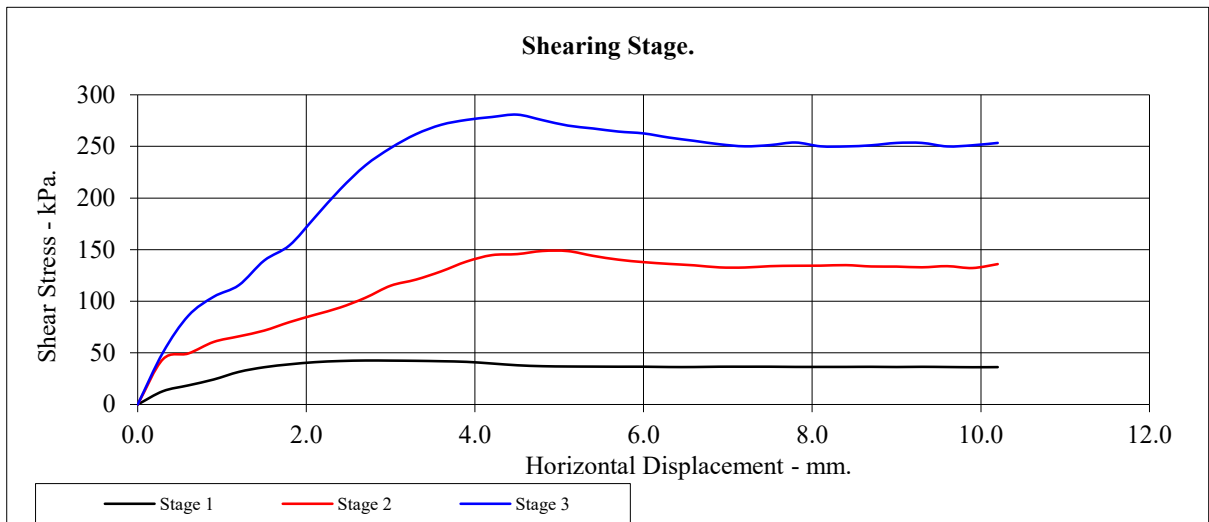
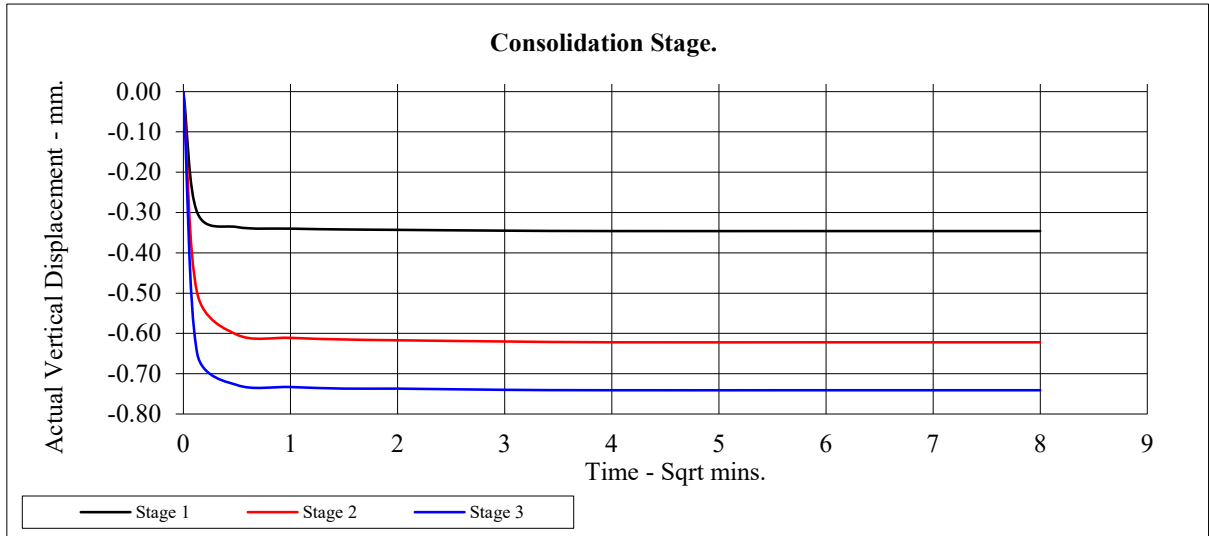
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH04	Top Depth:	6.00
Sample Number:	11	Base Depth:	6.45



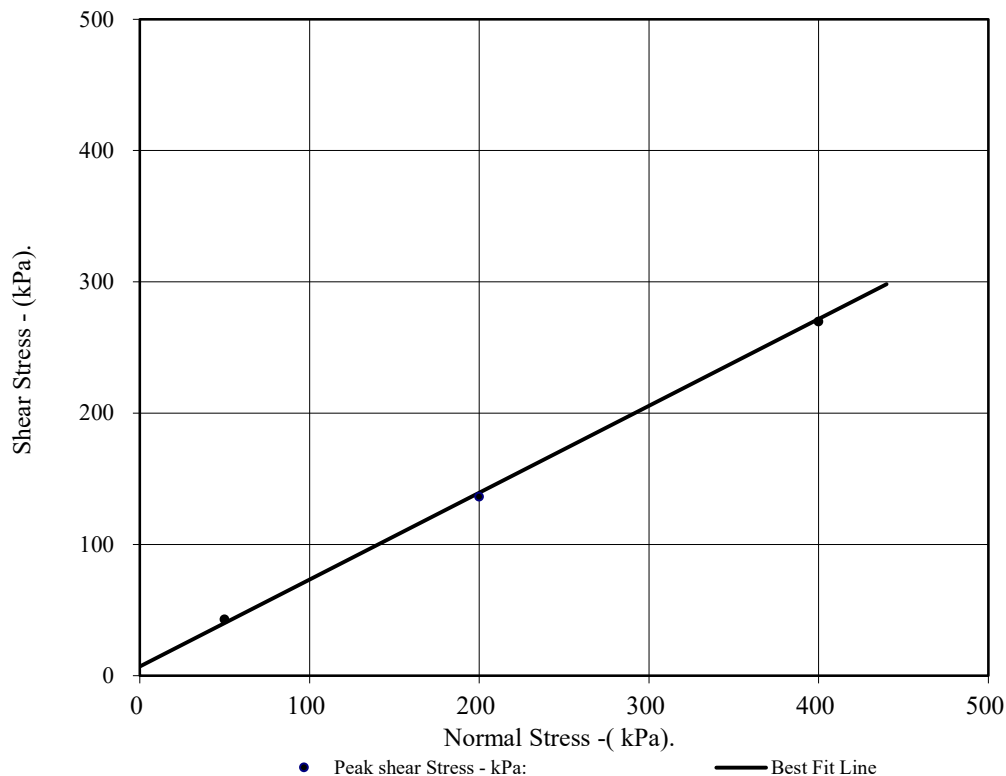
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH05		Top Depth:	1.20	
Sample Number:	3		Base Depth:	1.65	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			8.0	8.0	8.0
Bulk Density - Mg/m3:			2.05	2.05	2.05
Dry Density - Mg/m3:			1.90	1.90	1.90
Voids Ratio:			0.398	0.398	0.398
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.84	24.54	24.17
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			1.80	3.00	3.30
Peak shear Stress - kPa:			43	136	270
Final Consolidated Conditions					
Moisture Content - %:			7.5	7.7	7.1
Bulk Density - Mg/m3:			2.06	2.09	2.12
Dry Density - Mg/m3:			1.92	1.94	1.98
Peak					
Angle of Shearing Resistance:(θ)			34		
Effective Cohesion - kPa:			7		



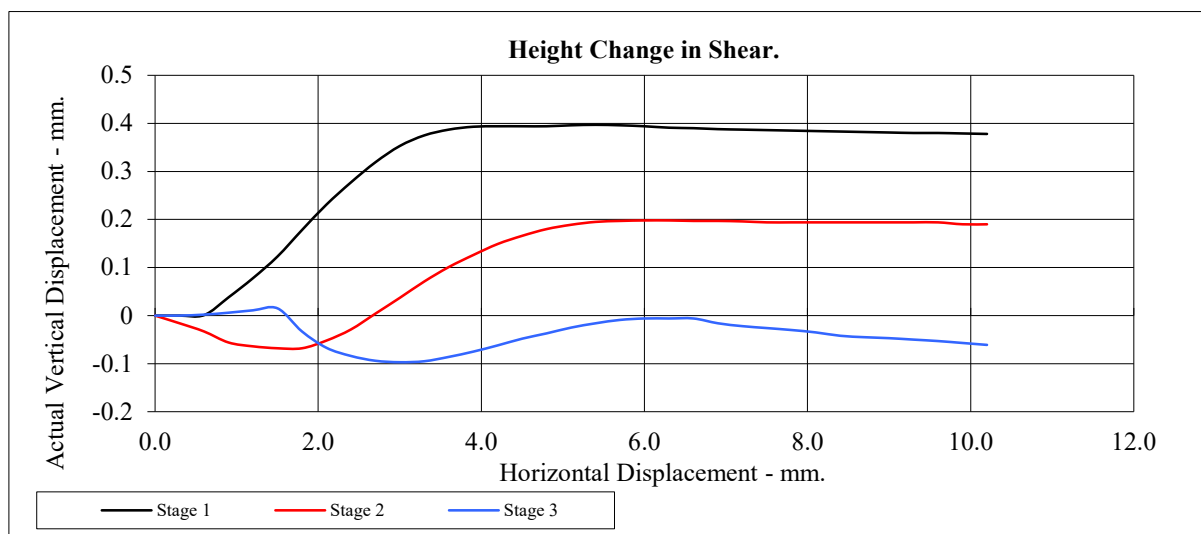
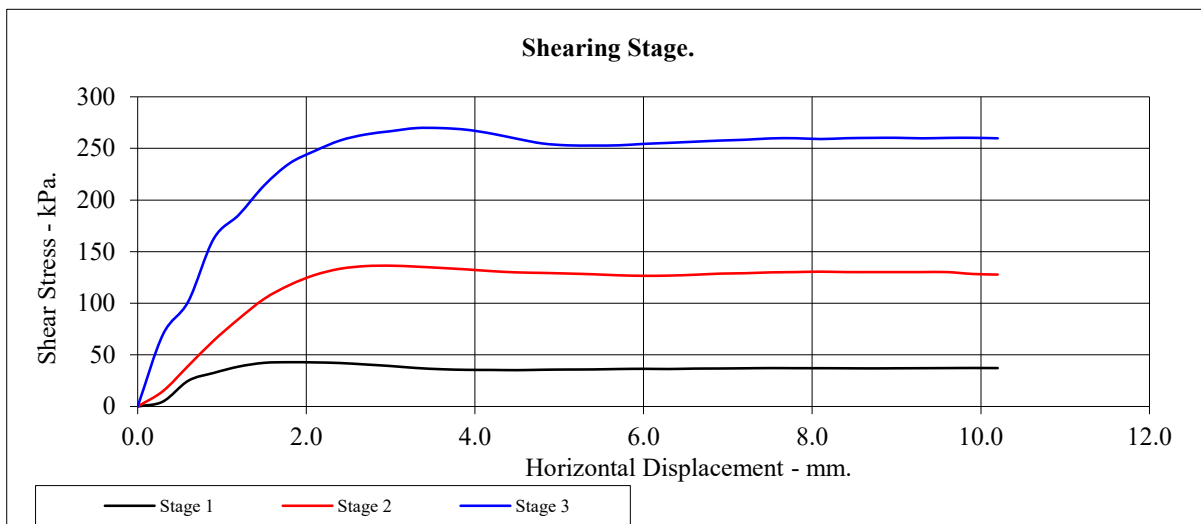
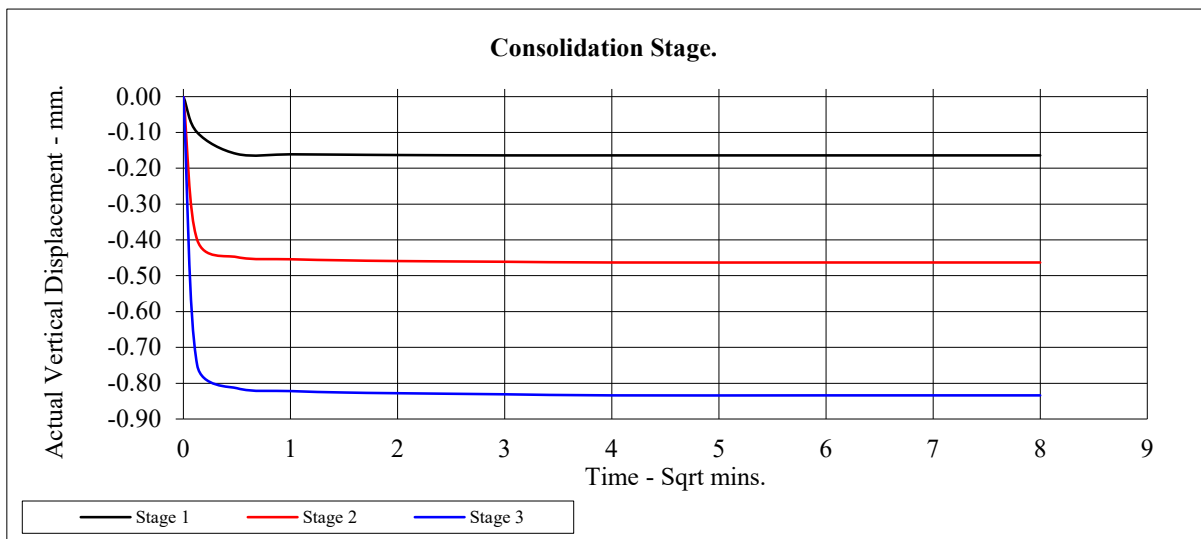
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH05	Top Depth:	1.20
Sample Number:	3	Base Depth:	1.65



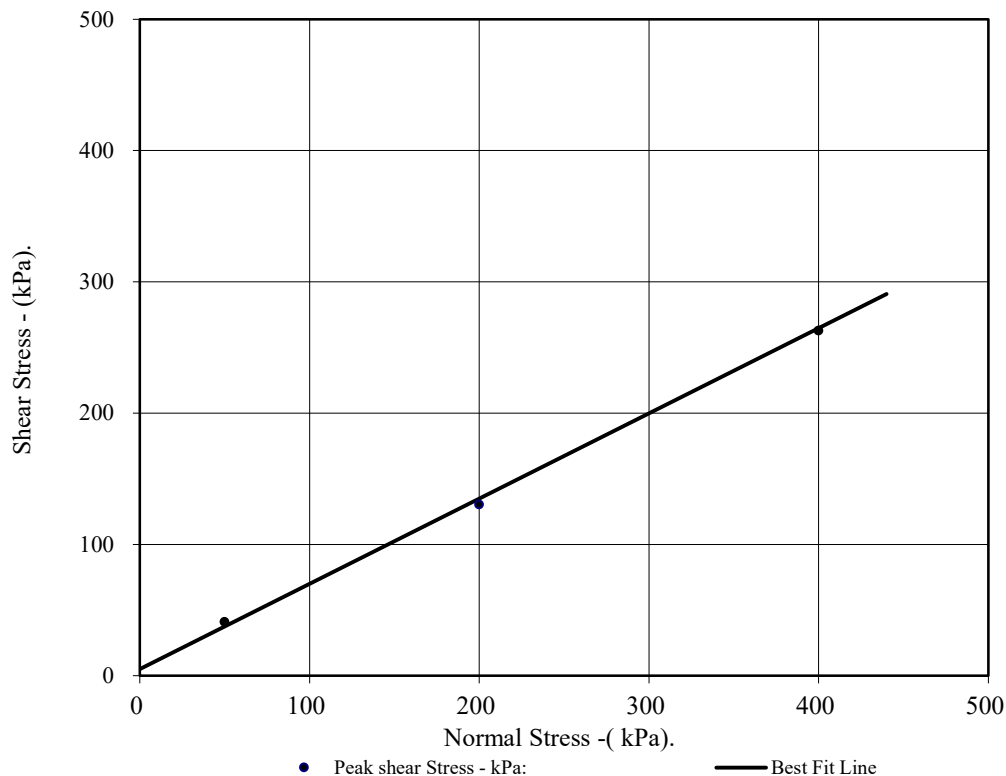
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH05		Top Depth:	6.50	
Sample Number:	15		Base Depth:	6.95	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			23	23	23
Bulk Density - Mg/m3:			2.02	2.02	2.02
Dry Density - Mg/m3:			1.64	1.64	1.64
Voids Ratio:			0.619	0.619	0.619
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.34	24.06	23.29
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			3.90	9.31	3.90
Peak shear Stress - kPa:			41	131	263
Final Consolidated Conditions					
Moisture Content - %:			21	20	20
Bulk Density - Mg/m3:			2.07	2.10	2.17
Dry Density - Mg/m3:			1.72	1.74	1.81
Peak					
Angle of Shearing Resistance:(θ)			33		
Effective Cohesion - kPa:			5		



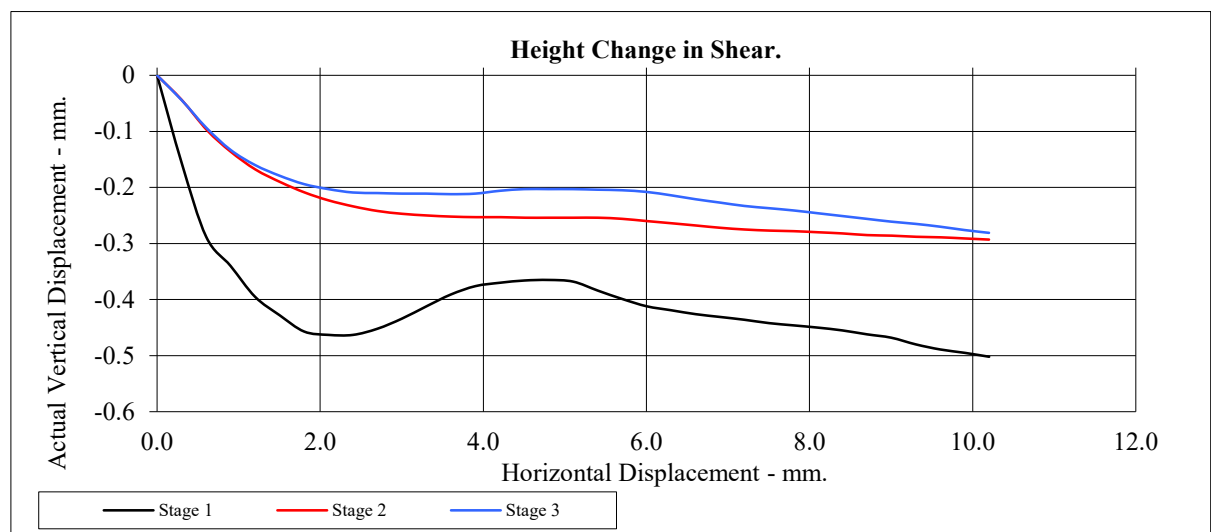
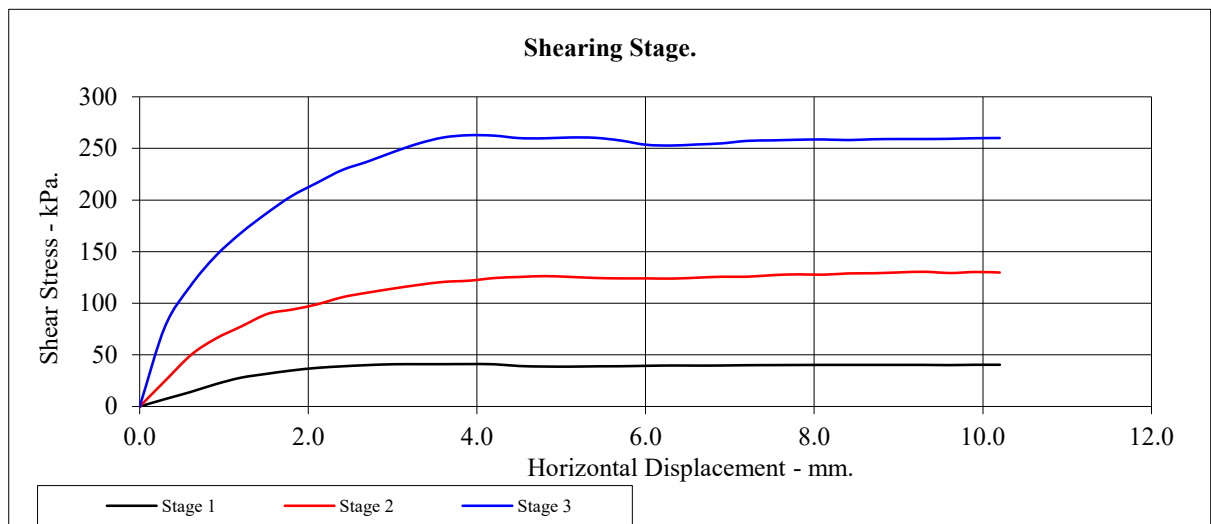
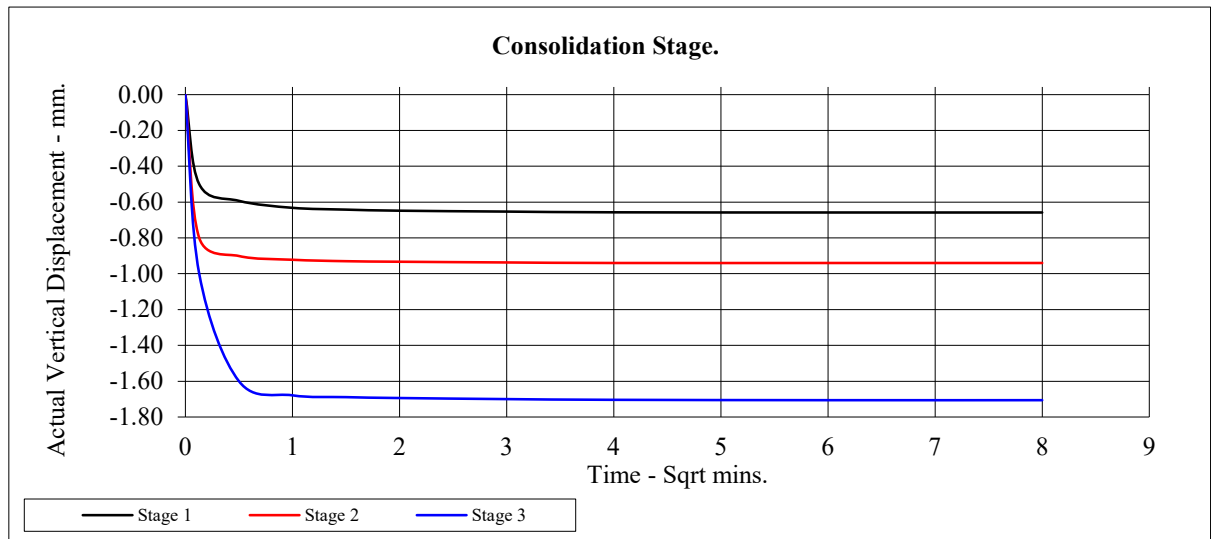
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH05	Top Depth:	6.50
Sample Number:	15	Base Depth:	6.95



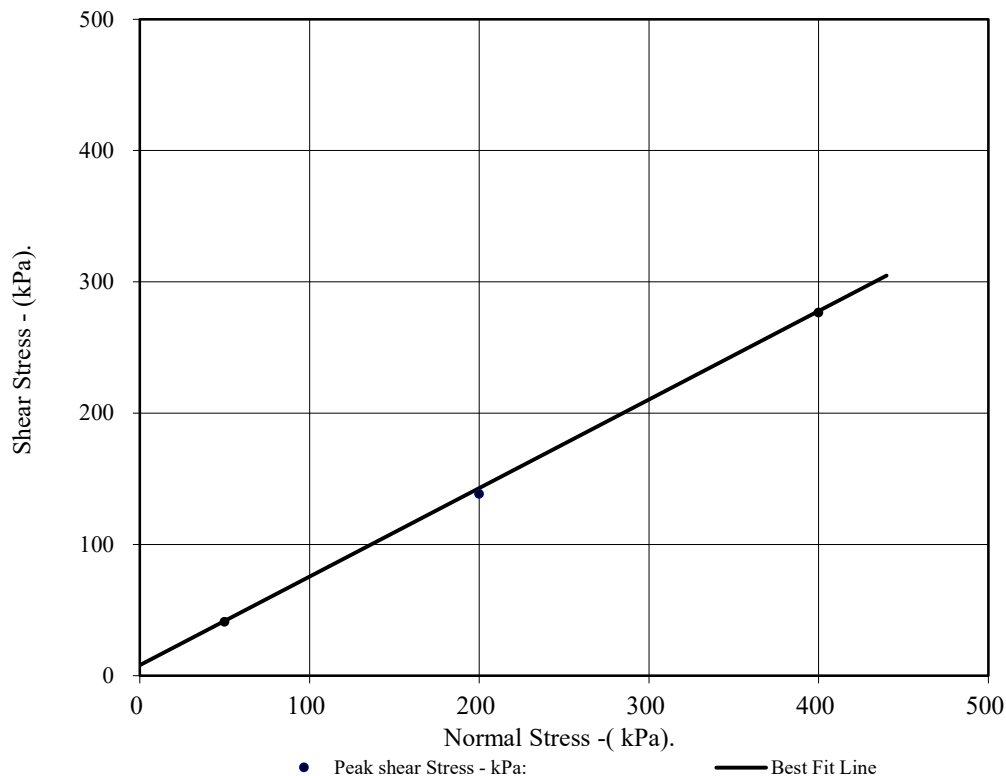
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH05		Top Depth:	12.50	
Sample Number:	20		Base Depth:	12.95	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			22	22	22
Bulk Density - Mg/m3:			2.03	2.03	2.03
Dry Density - Mg/m3:			1.66	1.66	1.66
Voids Ratio:			0.592	0.592	0.592
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.69	24.13	23.85
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			2.70	3.61	7.50
Peak shear Stress - kPa:			41	138	277
Final Consolidated Conditions					
Moisture Content - %:			20	20	19
Bulk Density - Mg/m3:			2.05	2.10	2.13
Dry Density - Mg/m3:			1.71	1.76	1.79
Peak					
Angle of Shearing Resistance:(θ)			34		
Effective Cohesion - kPa:			8		



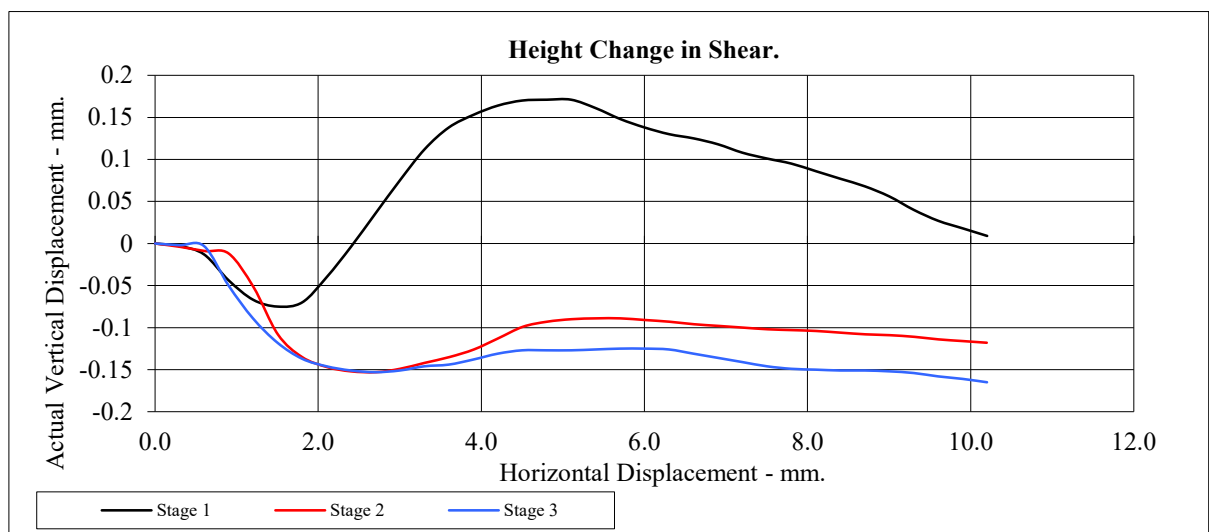
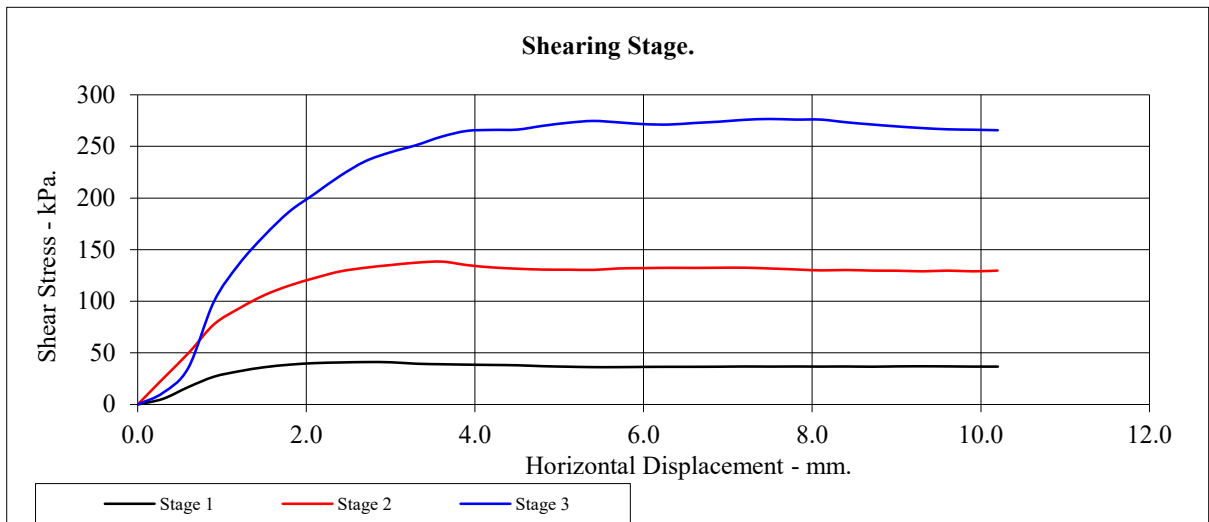
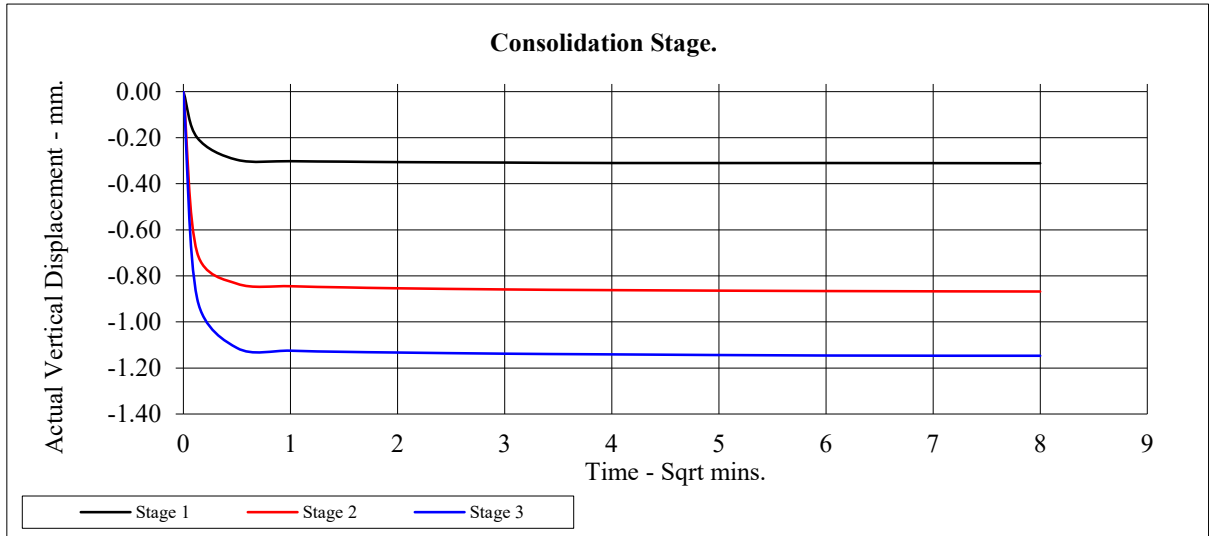
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH05	Top Depth:	12.50
Sample Number:	20	Base Depth:	12.95



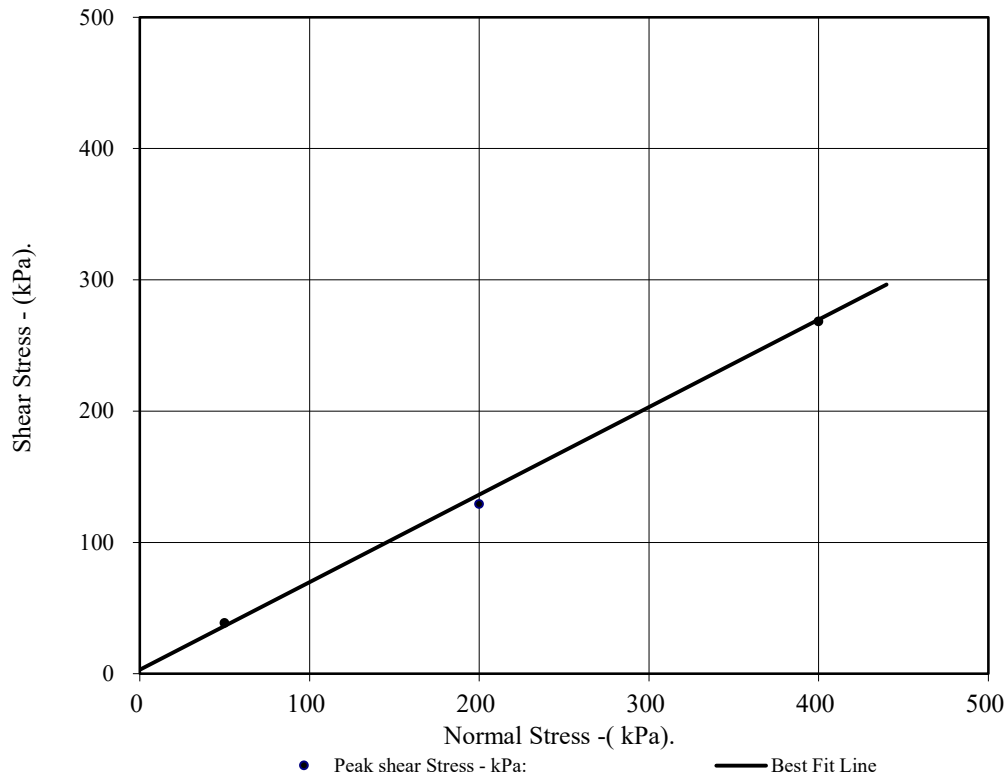
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH06		Top Depth:	9.00	
Sample Number:	16		Base Depth:	9.45	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			22	22	22
Bulk Density - Mg/m3:			2.03	2.03	2.03
Dry Density - Mg/m3:			1.66	1.66	1.66
Voids Ratio:			0.592	0.592	0.592
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.83	24.48	24.13
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			2.10	3.60	5.70
Peak shear Stress - kPa:			39	129	268
Final Consolidated Conditions					
Moisture Content - %:			20	20	19
Bulk Density - Mg/m3:			2.04	2.07	2.10
Dry Density - Mg/m3:			1.70	1.73	1.76
Peak					
Angle of Shearing Resistance:(θ)			34		
Effective Cohesion - kPa:			3		



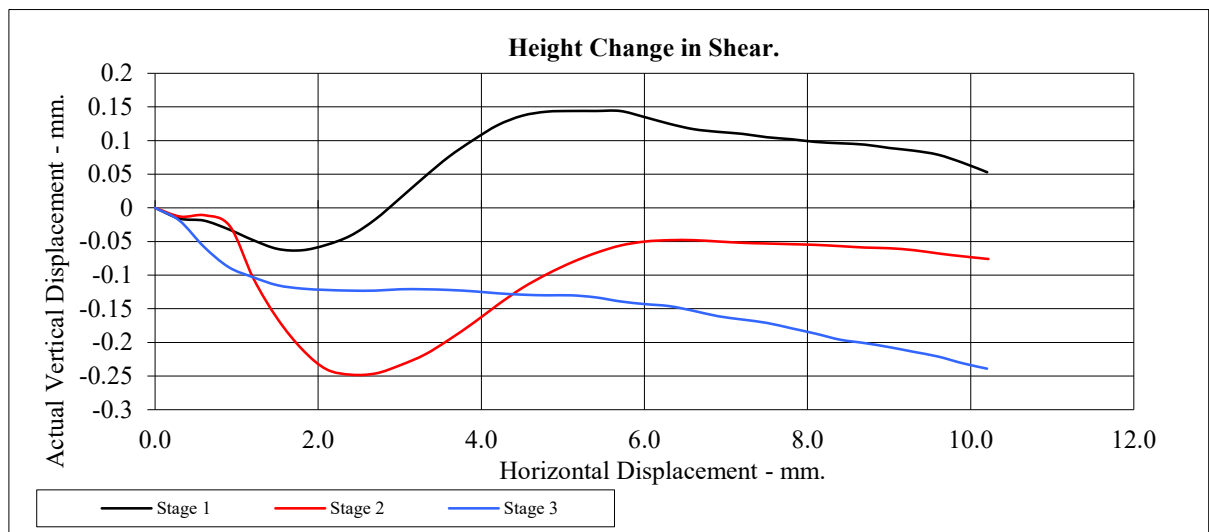
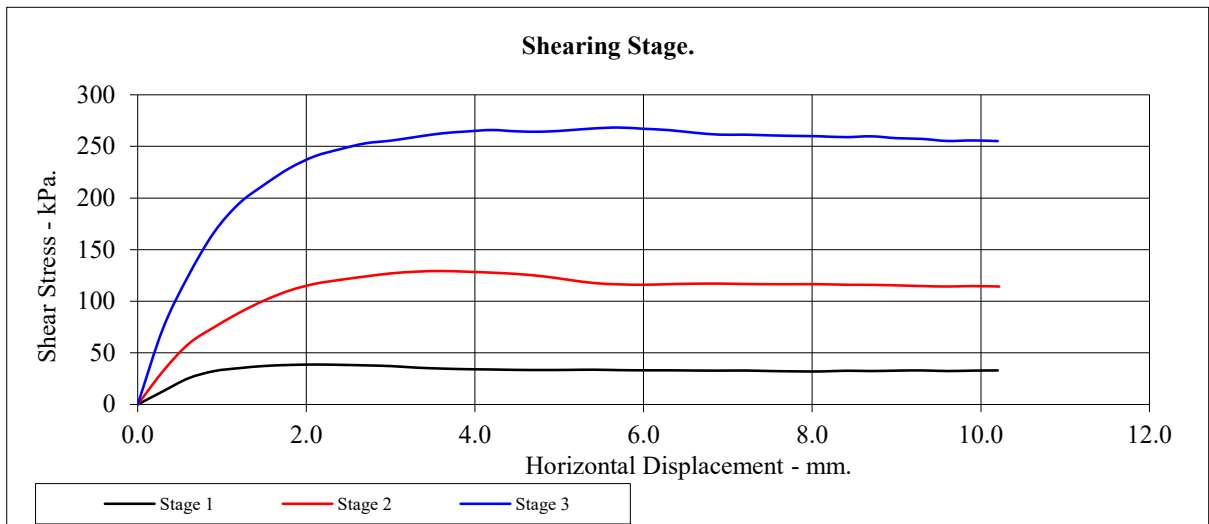
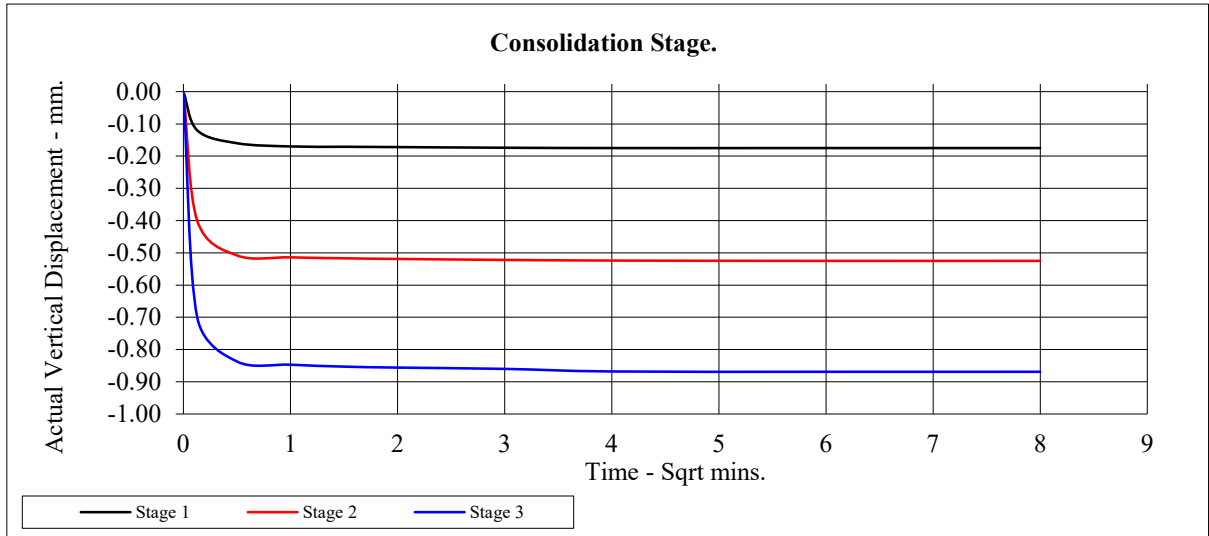
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH06	Top Depth:	9.00
Sample Number:	16	Base Depth:	9.45



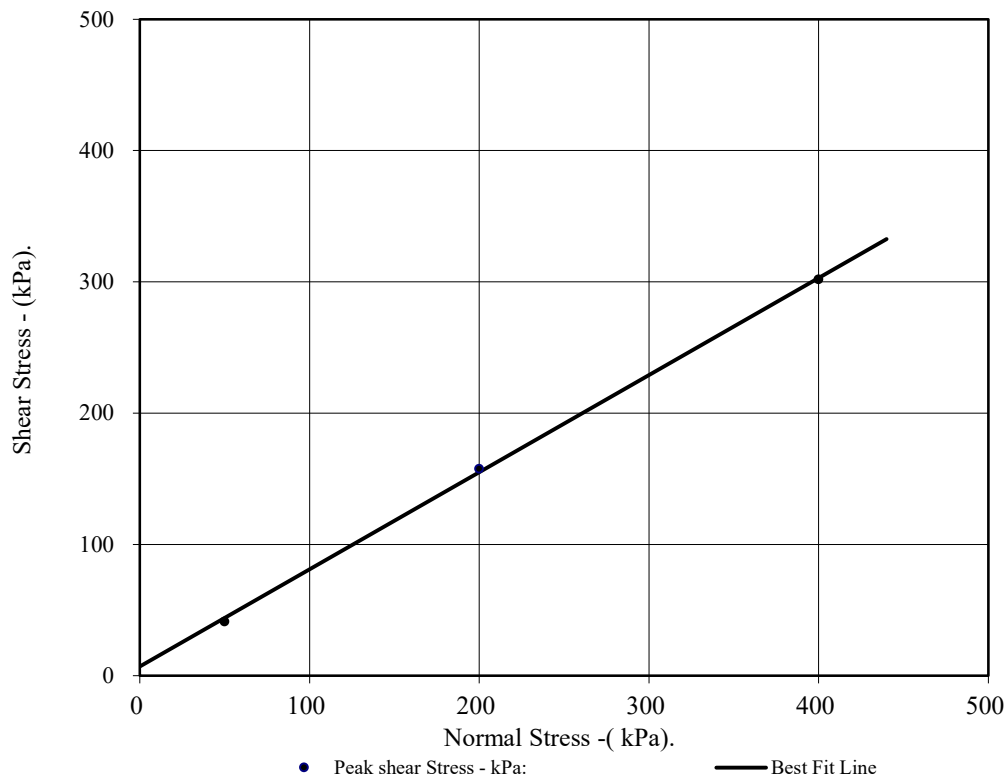
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH06		Top Depth:	13.50	
Sample Number:	19		Base Depth:	13.95	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			19	19	19
Bulk Density - Mg/m3:			2.05	2.05	2.05
Dry Density - Mg/m3:			1.72	1.72	1.72
Voids Ratio:			0.541	0.541	0.541
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.81	24.56	24.06
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			2.40	6.60	3.30
Peak shear Stress - kPa:			41	158	302
Final Consolidated Conditions					
Moisture Content - %:			18	15	14
Bulk Density - Mg/m3:			2.06	2.08	2.13
Dry Density - Mg/m3:			1.74	1.81	1.86
Peak					
Angle of Shearing Resistance:(θ)			37		
Effective Cohesion - kPa:			7		



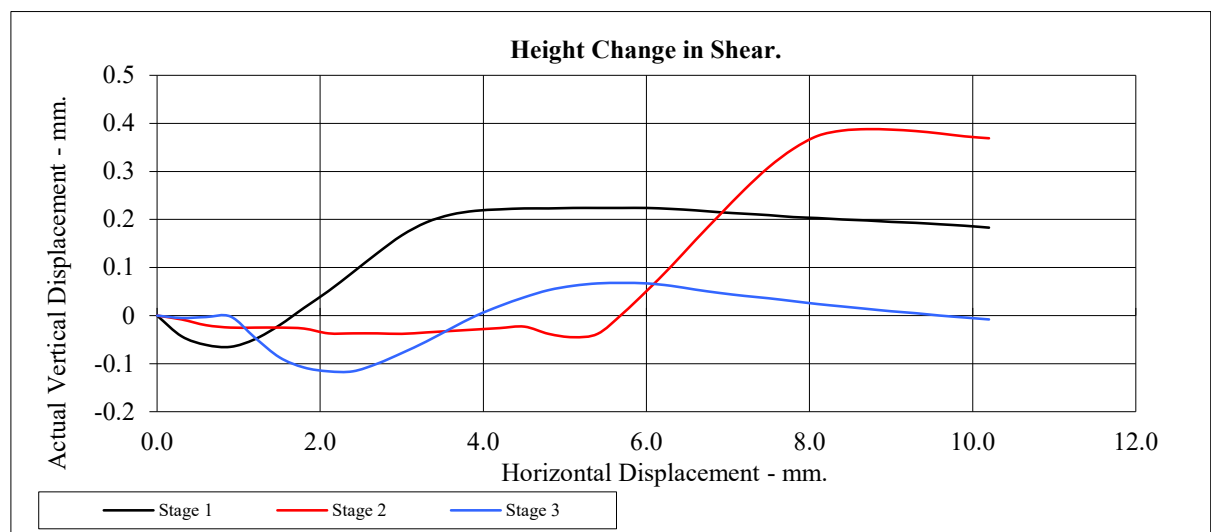
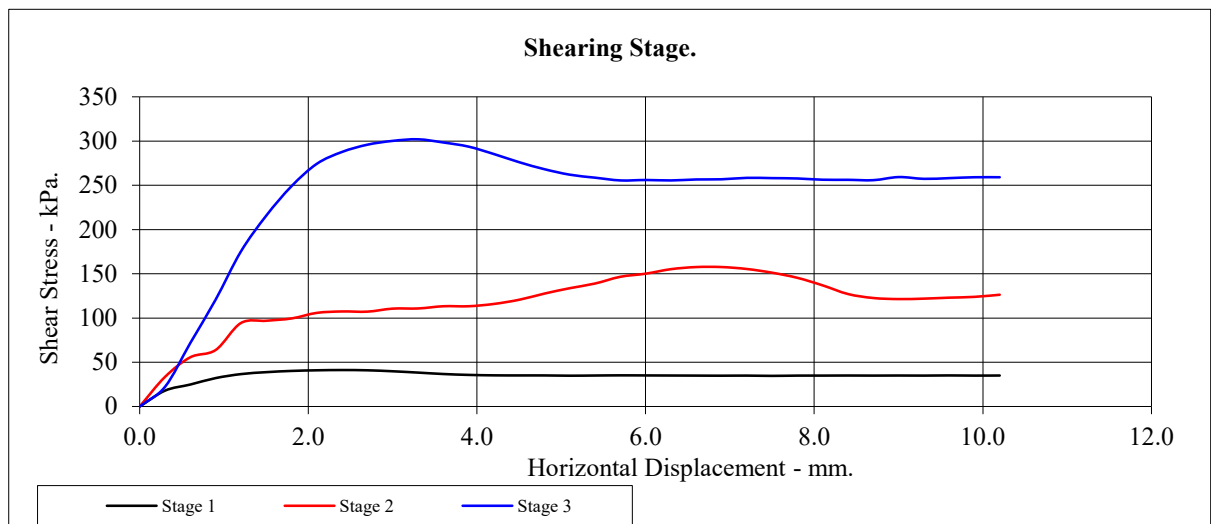
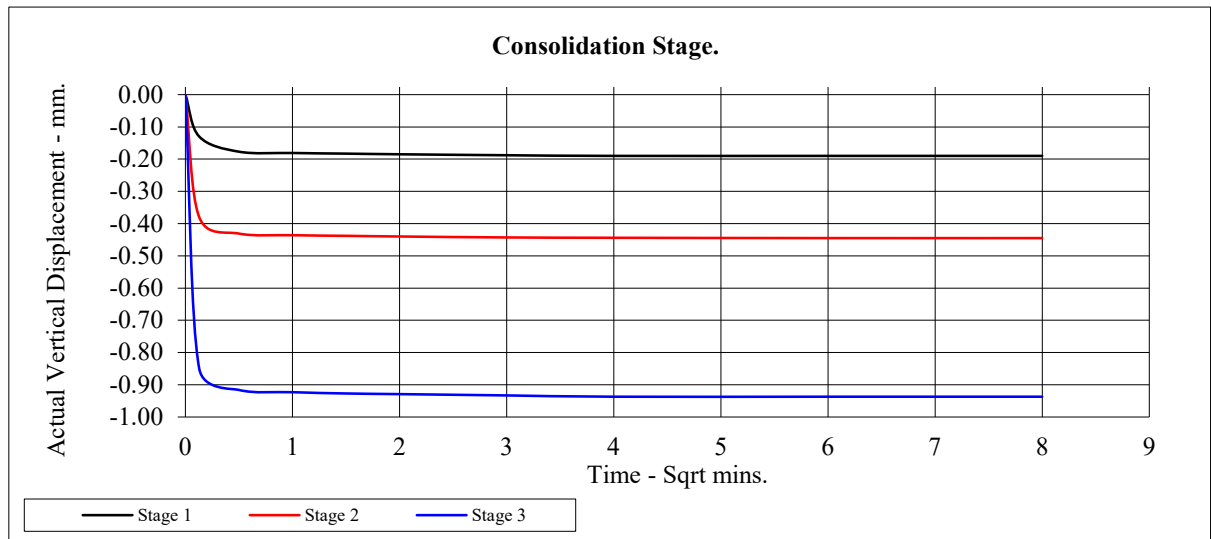
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH06	Top Depth:	13.50
Sample Number:	19	Base Depth:	13.95



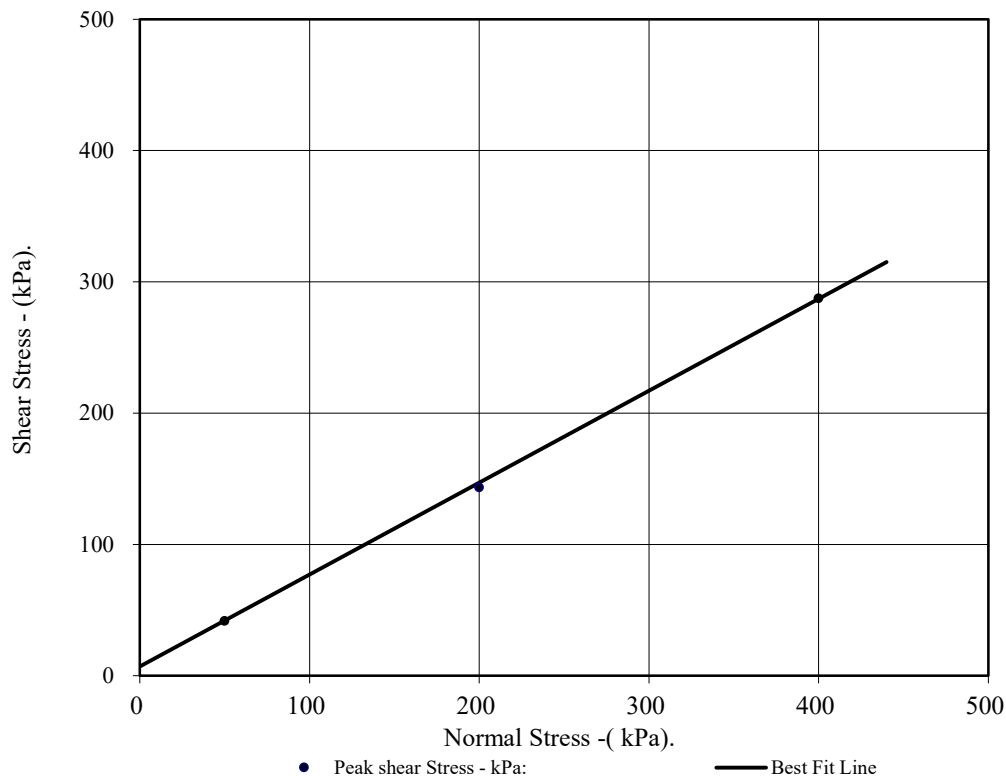
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH07		Top Depth:	1.50	
Sample Number:	3		Base Depth:	1.95	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			21	21	21
Bulk Density - Mg/m3:			2.02	2.02	2.02
Dry Density - Mg/m3:			1.67	1.67	1.67
Voids Ratio:			0.588	0.588	0.588
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.64	24.36	24.19
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			3.00	4.21	4.50
Peak shear Stress - kPa:			42	143	287
Final Consolidated Conditions					
Moisture Content - %:			19	19	18
Bulk Density - Mg/m3:			2.05	2.08	2.09
Dry Density - Mg/m3:			1.72	1.75	1.77
Peak					
Angle of Shearing Resistance:(θ)			35		
Effective Cohesion - kPa:			7		



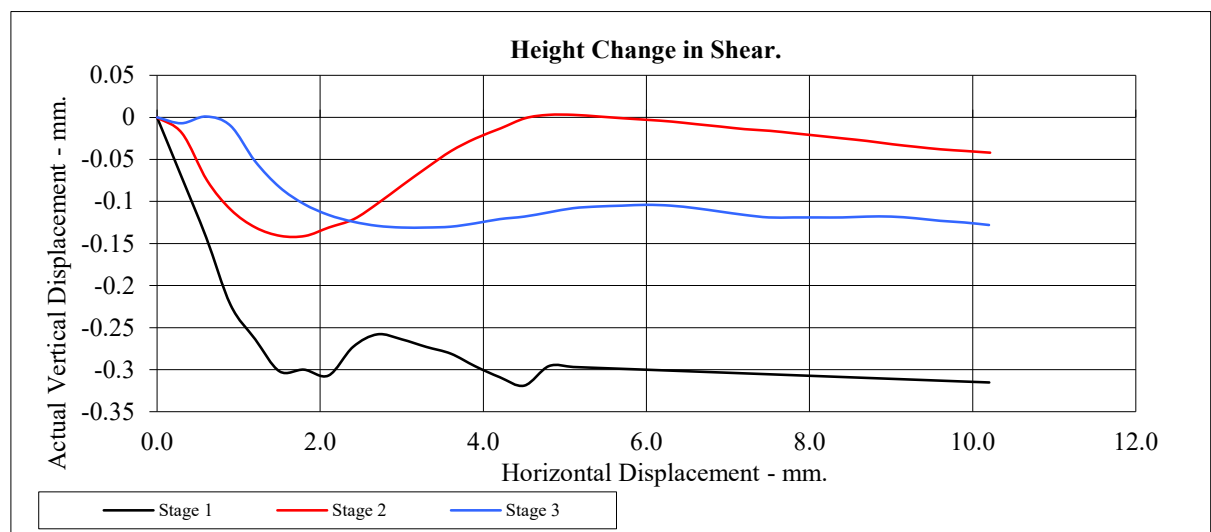
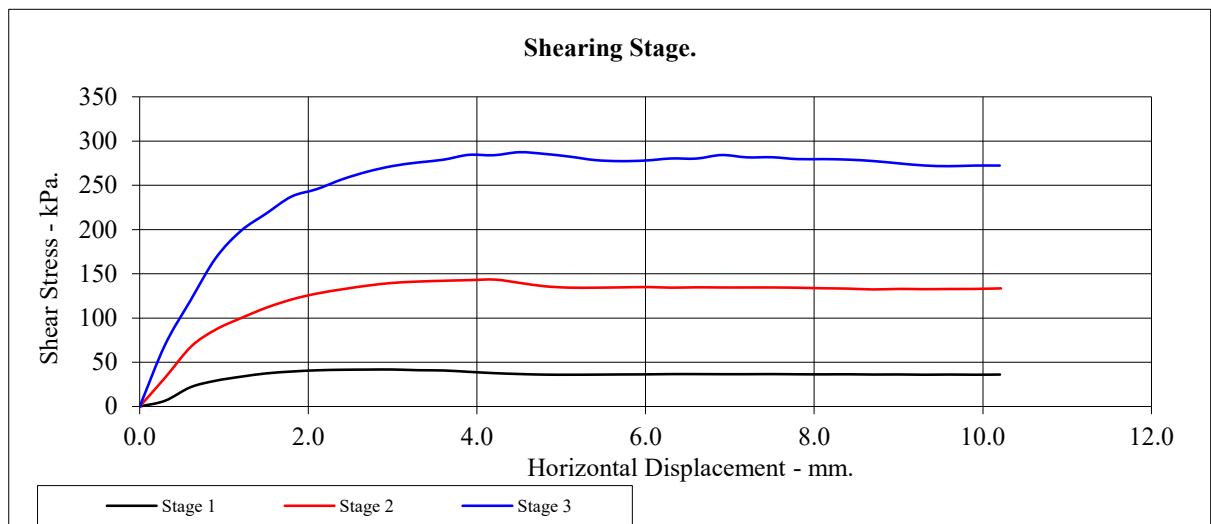
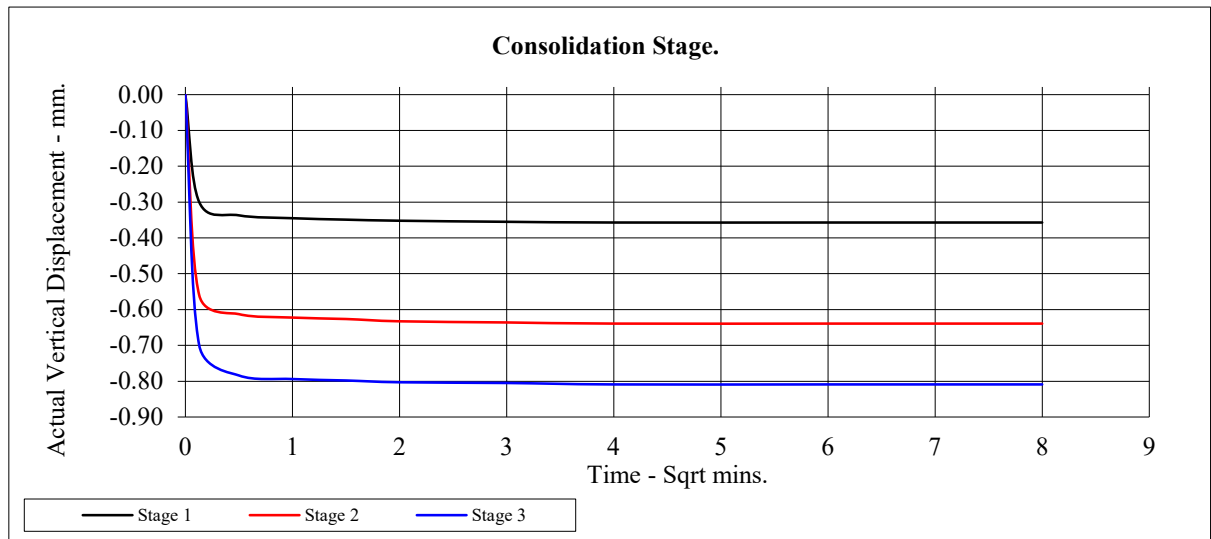
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH07	Top Depth:	1.50
Sample Number:	3	Base Depth:	1.95



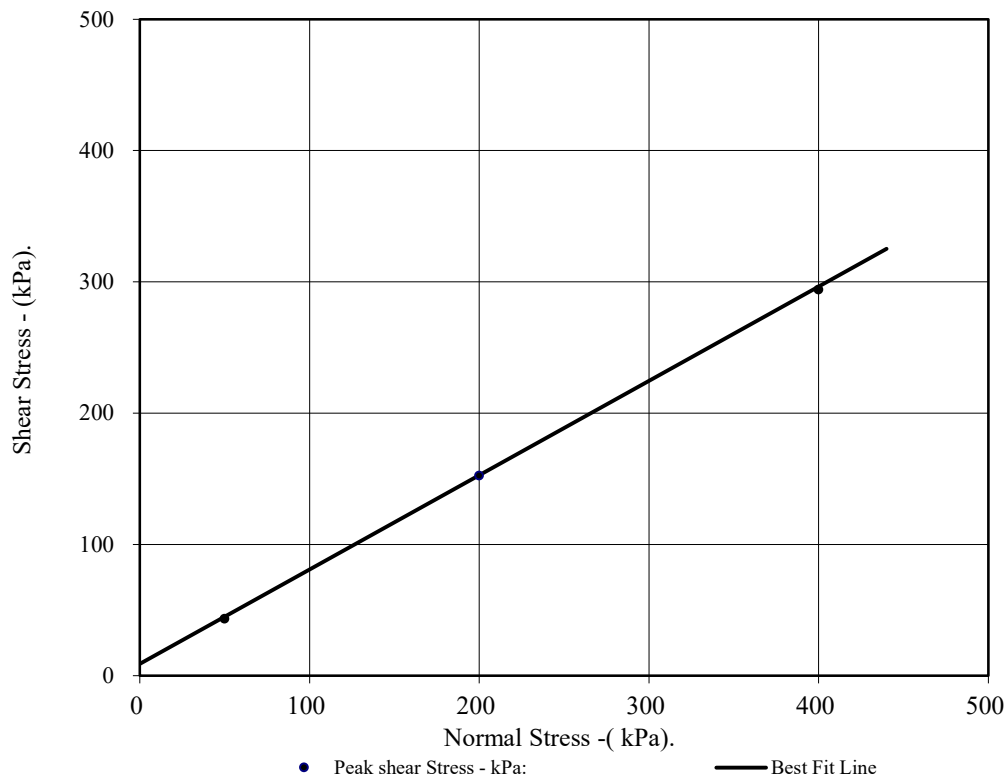
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH07		Top Depth:	6.00	
Sample Number:	6		Base Depth:	6.45	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			9.3	9.3	9.3
Bulk Density - Mg/m3:			2.04	2.04	2.04
Dry Density - Mg/m3:			1.86	1.86	1.86
Voids Ratio:			0.422	0.422	0.422
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.83	24.36	24.16
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			2.10	4.50	5.10
Peak shear Stress - kPa:			43	153	294
Final Consolidated Conditions					
Moisture Content - %:			7.4	6.9	6.1
Bulk Density - Mg/m3:			2.05	2.09	2.11
Dry Density - Mg/m3:			1.91	1.96	1.99
Peak					
Angle of Shearing Resistance:(θ)			36		
Effective Cohesion - kPa:			9		



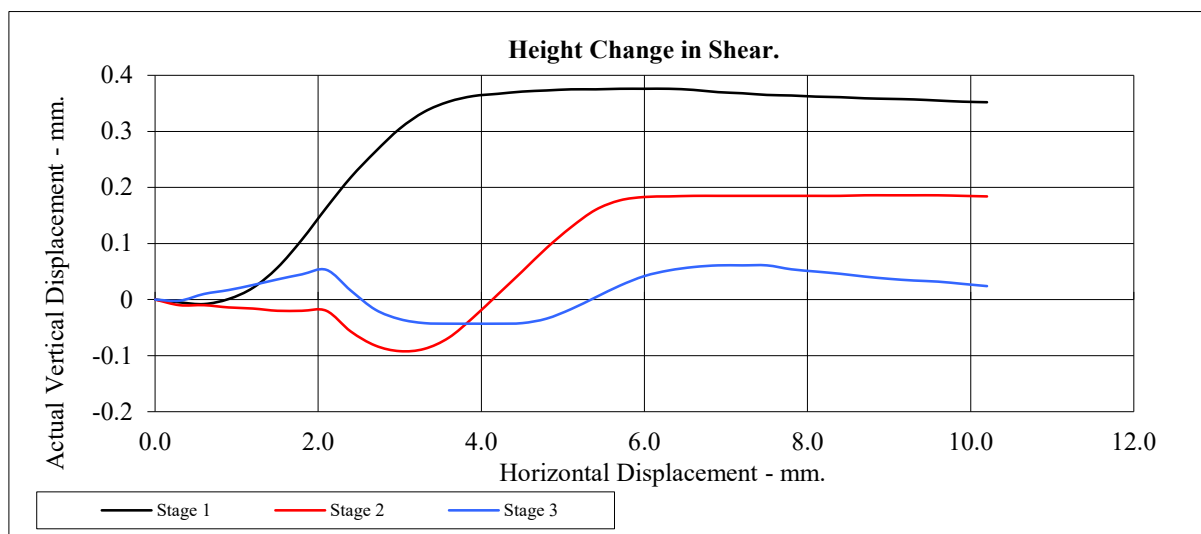
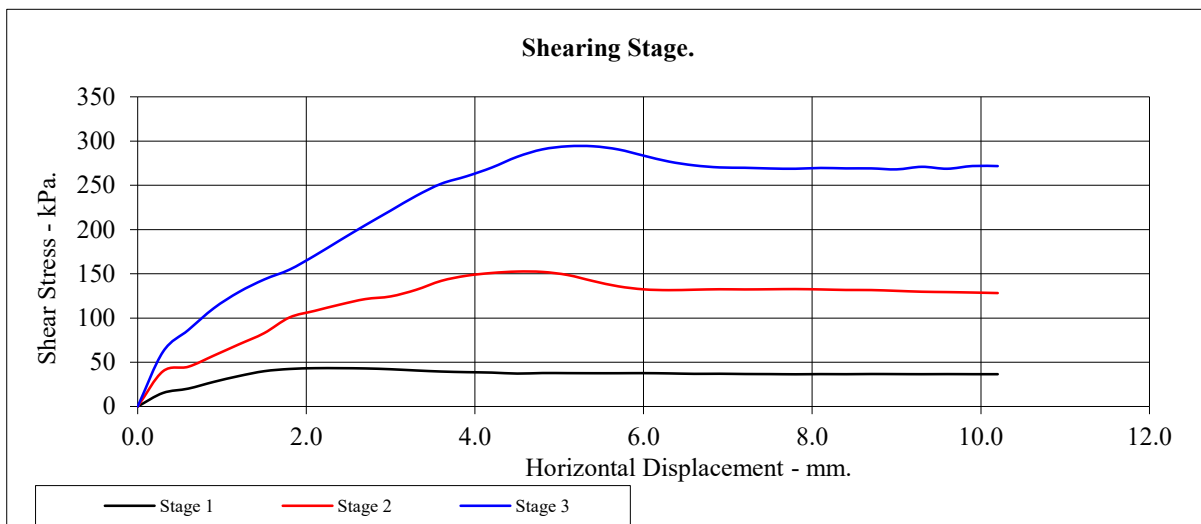
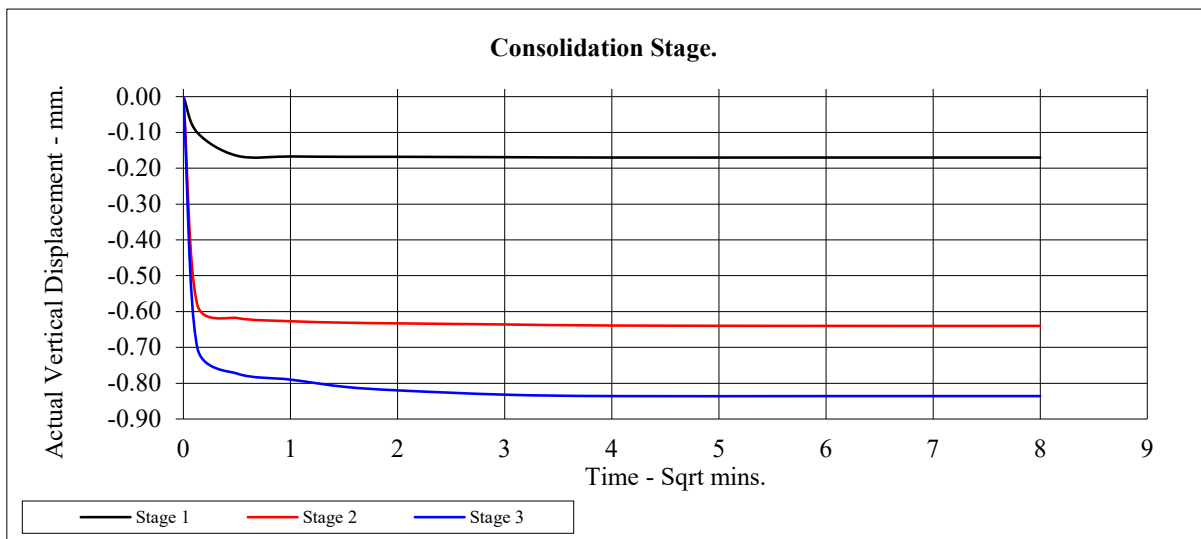
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH07	Top Depth:	6.00
Sample Number:	6	Base Depth:	6.45



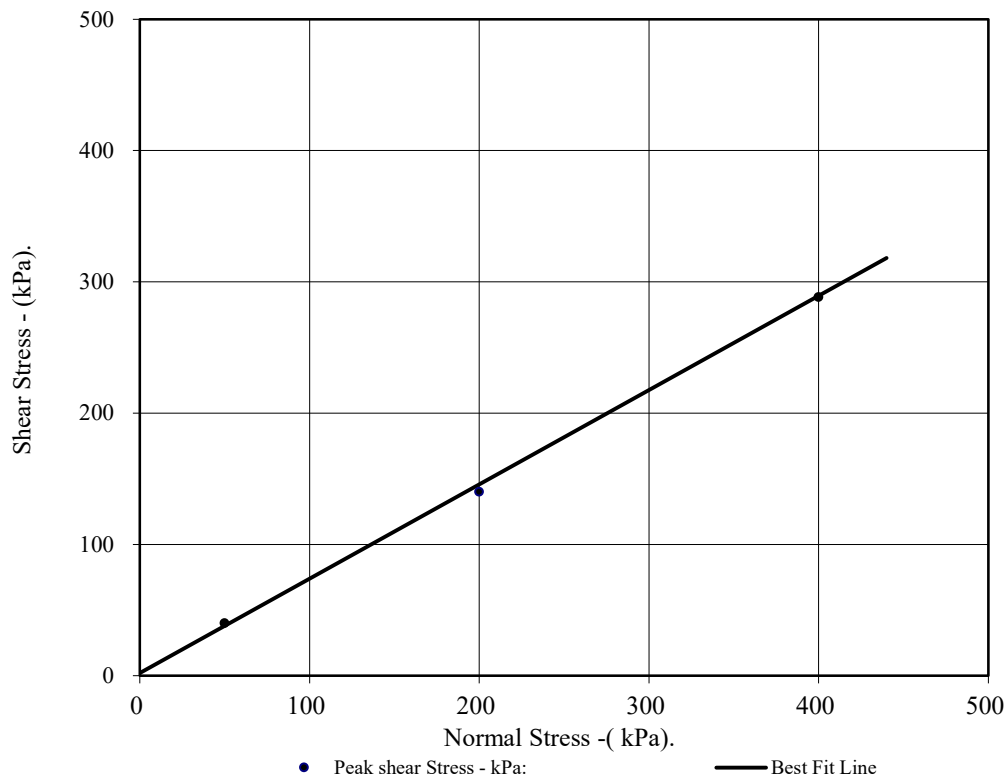
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Contract No:
PSL24/5600
Client Ref:
STV5936

CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH07		Top Depth:	10.50	
Sample Number:	8		Base Depth:	10.95	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			17	17	17
Bulk Density - Mg/m3:			2.04	2.04	2.04
Dry Density - Mg/m3:			1.74	1.74	1.74
Voids Ratio:			0.519	0.519	0.519
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.70	24.44	23.50
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			2.70	9.00	4.20
Peak shear Stress - kPa:			40	140	289
Final Consolidated Conditions					
Moisture Content - %:			17	17	16
Bulk Density - Mg/m3:			2.06	2.08	2.17
Dry Density - Mg/m3:			1.76	1.78	1.86
Peak					
Angle of Shearing Resistance:(θ)			36		
Effective Cohesion - kPa:			2		



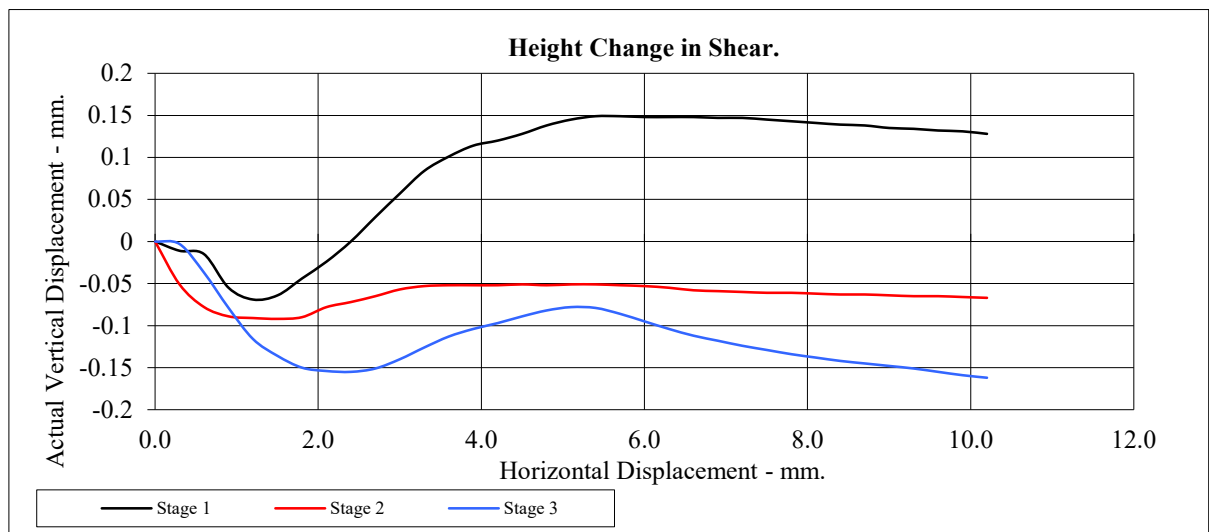
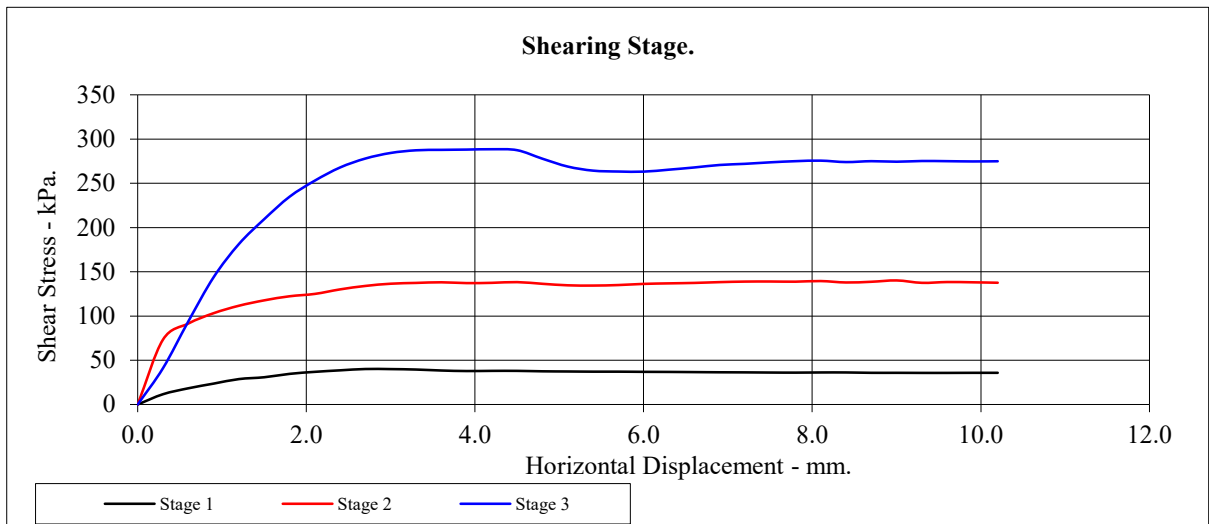
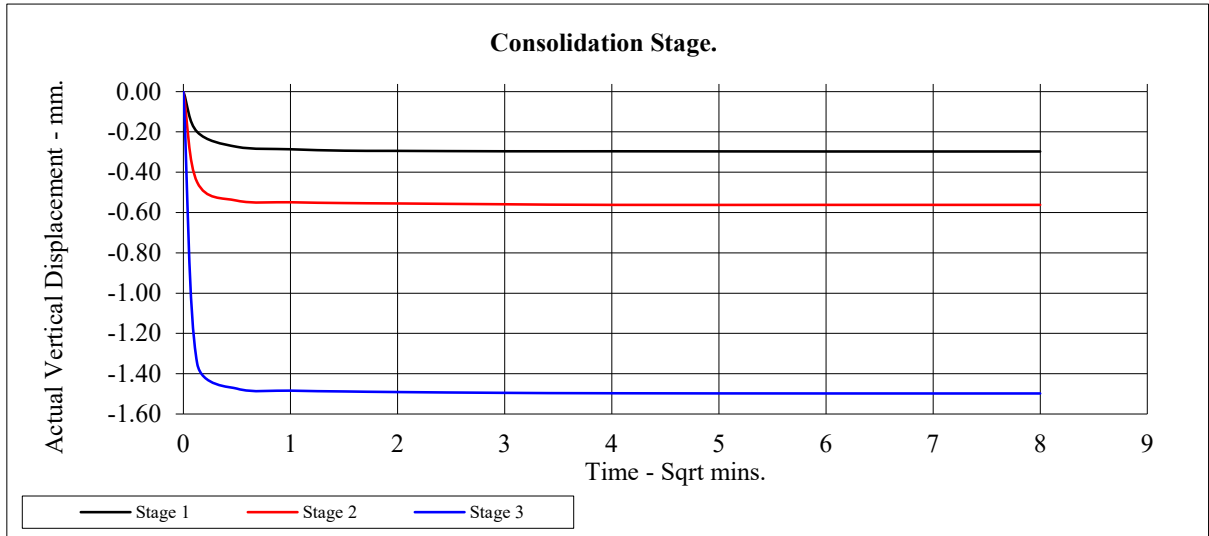
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH07	Top Depth:	10.50
Sample Number:	8	Base Depth:	10.95



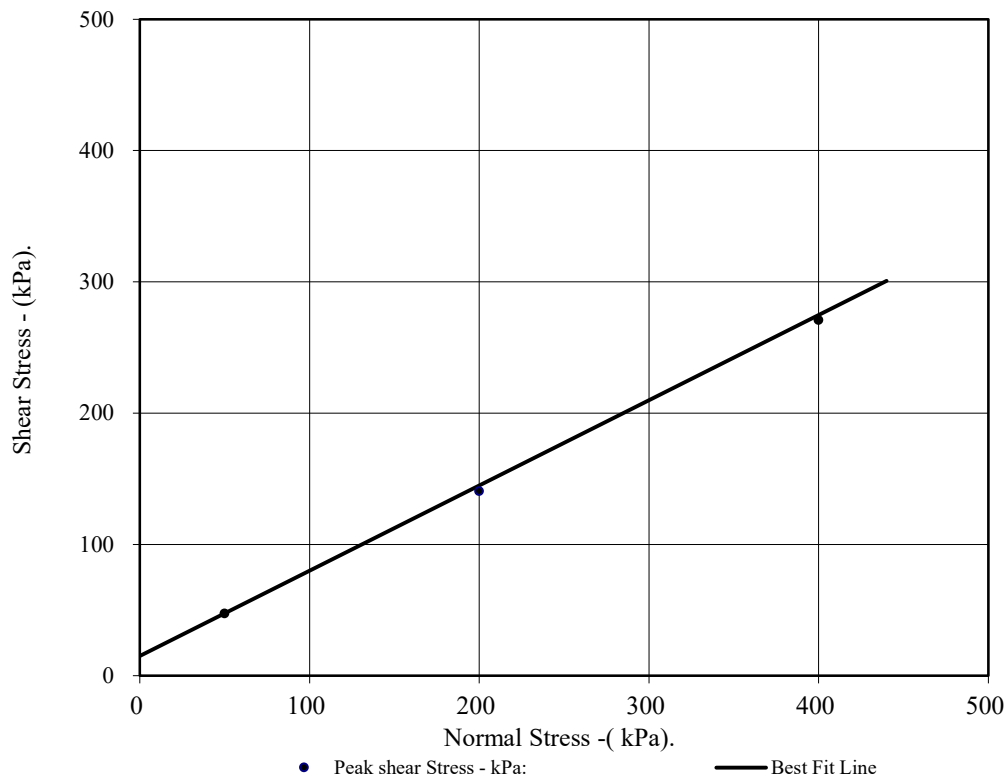
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH08		Top Depth:	0.40	
Sample Number:	2		Base Depth:	1.50	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			21	21	21
Bulk Density - Mg/m3:			2.00	2.00	2.00
Dry Density - Mg/m3:			1.65	1.65	1.65
Voids Ratio:			0.604	0.604	0.604
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.72	24.52	23.21
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			2.70	3.31	4.50
Peak shear Stress - kPa:			47	141	271
Final Consolidated Conditions					
Moisture Content - %:			19	18	18
Bulk Density - Mg/m3:			2.03	2.04	2.16
Dry Density - Mg/m3:			1.71	1.74	1.84
Peak					
Angle of Shearing Resistance:(θ)			33		
Effective Cohesion - kPa:			15		



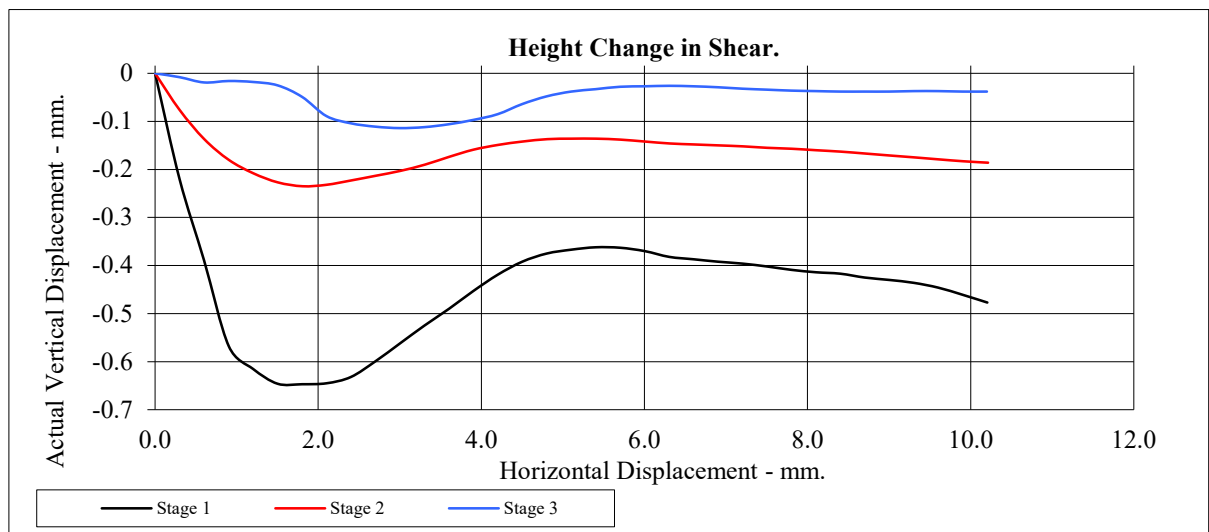
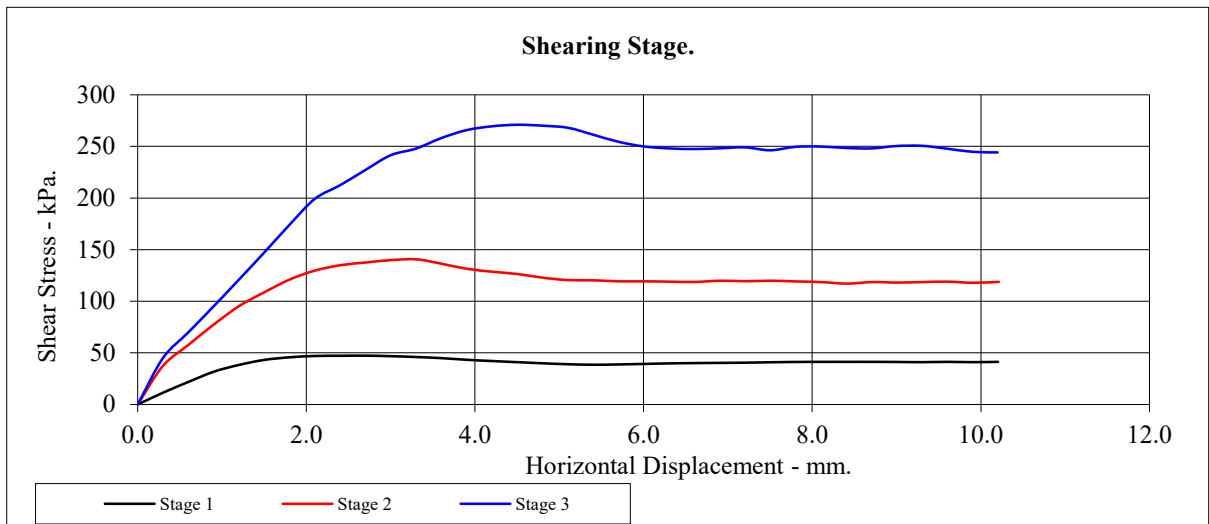
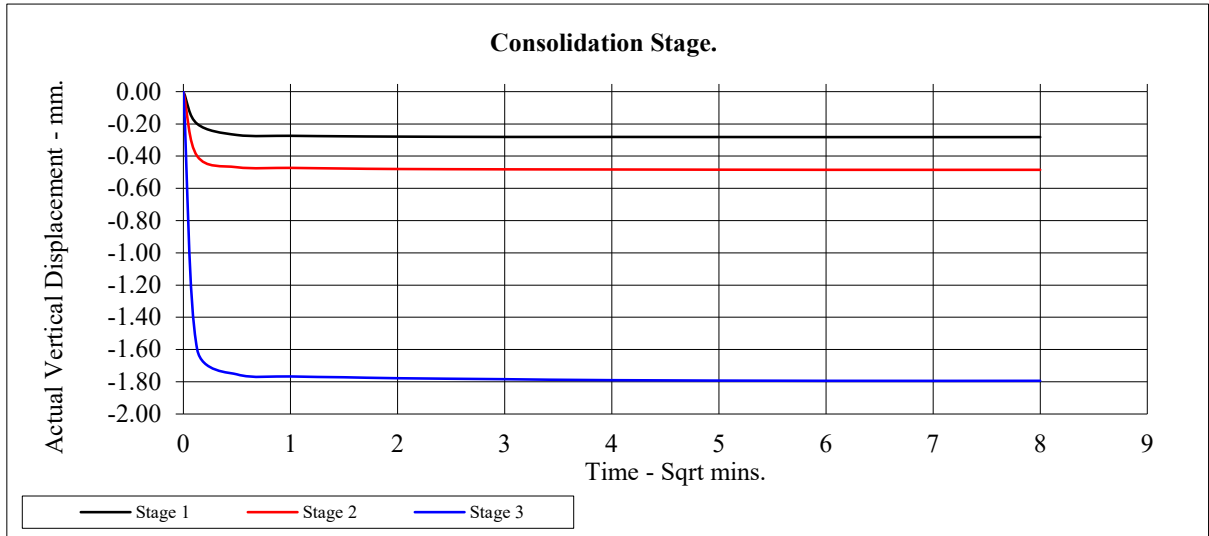
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH08	Top Depth:	0.40
Sample Number:	2	Base Depth:	1.50



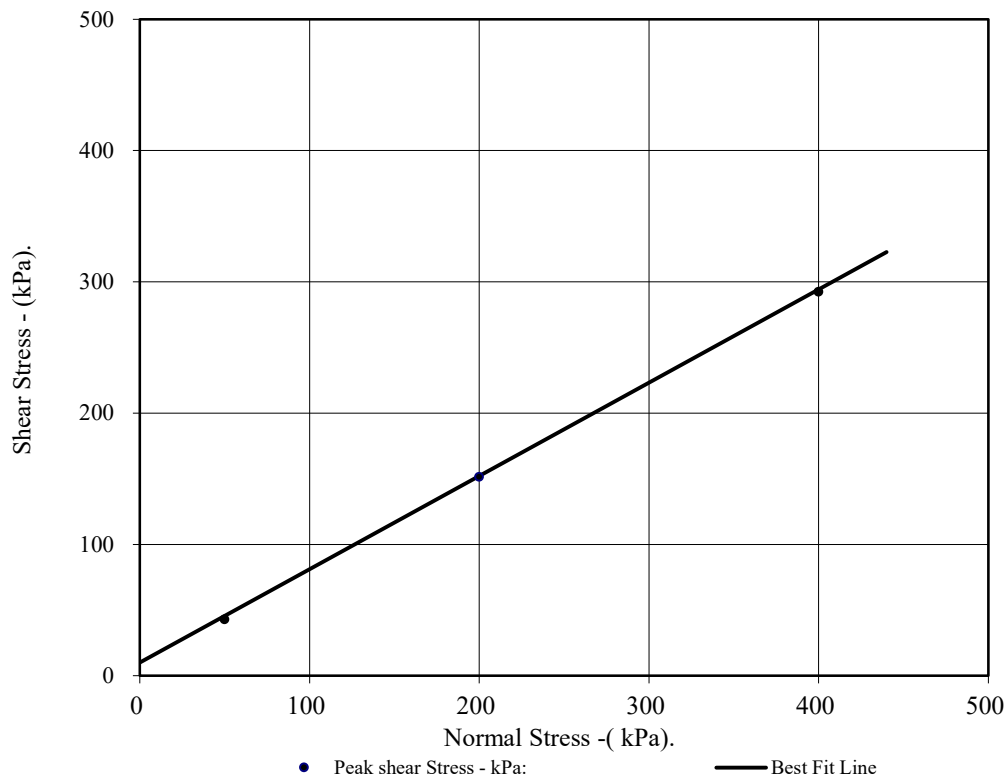
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH08		Top Depth:	10.50	
Sample Number:	14		Base Depth:	10.95	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			9.6	9.6	9.6
Bulk Density - Mg/m3:			2.04	2.04	2.04
Dry Density - Mg/m3:			1.86	1.86	1.86
Voids Ratio:			0.426	0.426	0.426
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.56	24.01	23.80
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			2.10	4.20	3.90
Peak shear Stress - kPa:			43	152	293
Final Consolidated Conditions					
Moisture Content - %:			9.5	9.0	8.9
Bulk Density - Mg/m3:			2.07	2.12	2.14
Dry Density - Mg/m3:			1.89	1.95	1.97
Peak					
Angle of Shearing Resistance:(θ)			35		
Effective Cohesion - kPa:			10		



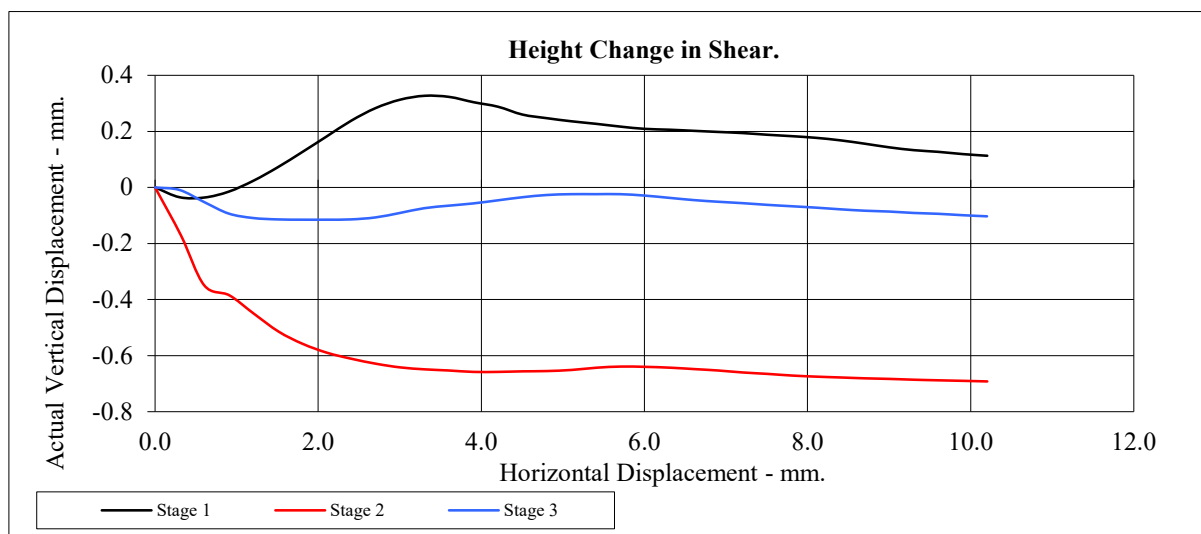
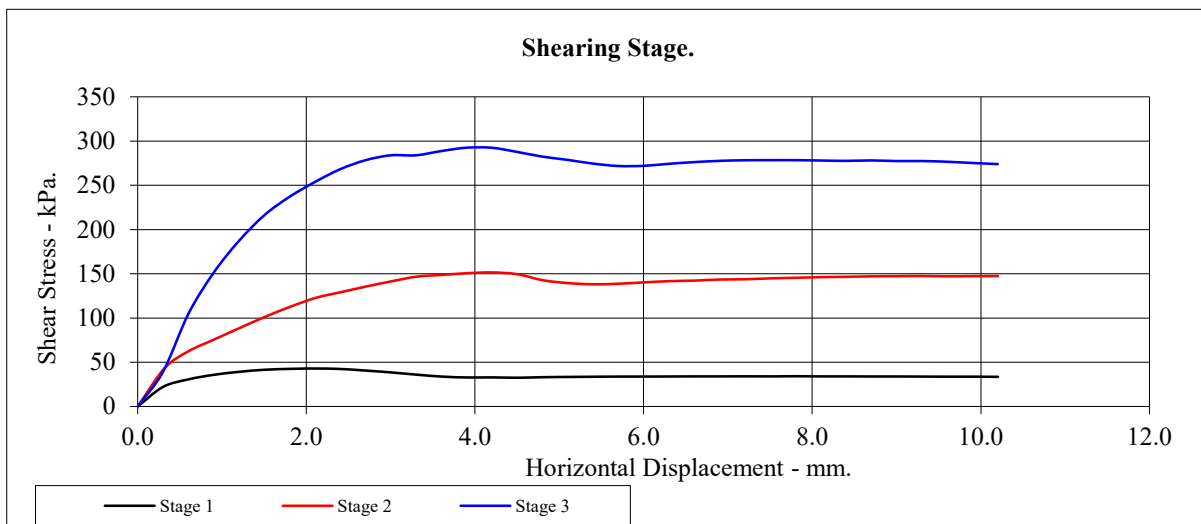
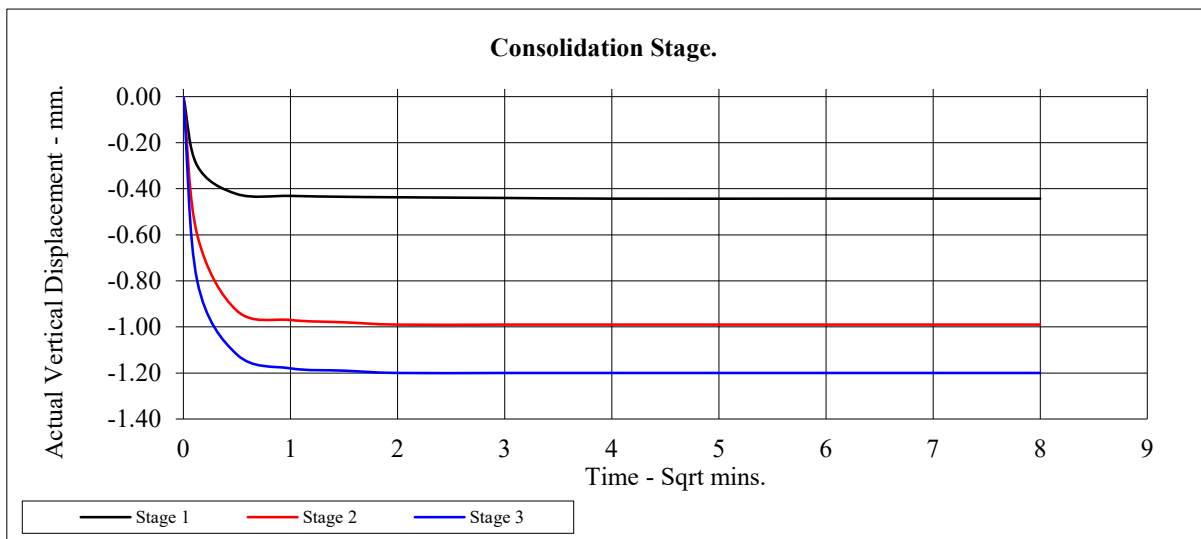
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH08	Top Depth:	10.50
Sample Number:	14	Base Depth:	10.95



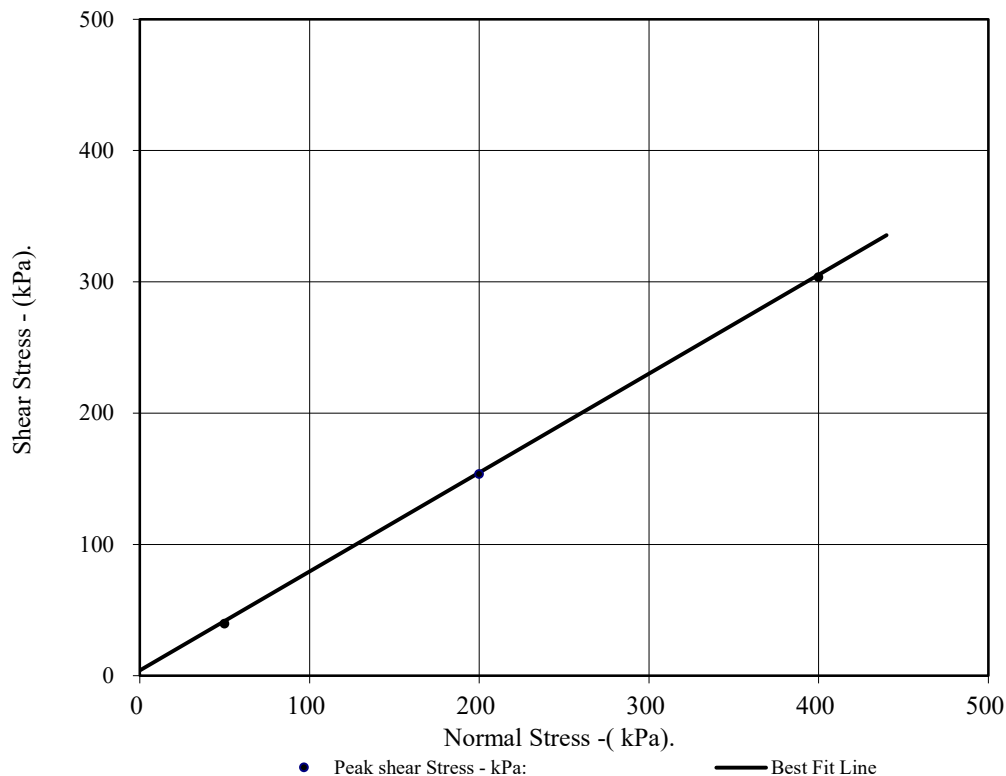
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH10		Top Depth:	6.00	
Sample Number:	9		Base Depth:	6.45	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			7.4	7.4	7.4
Bulk Density - Mg/m3:			2.00	2.00	2.00
Dry Density - Mg/m3:			1.87	1.87	1.87
Voids Ratio:			0.420	0.420	0.420
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.71	24.00	23.68
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			3.00	4.80	6.90
Peak shear Stress - kPa:			40	154	304
Final Consolidated Conditions					
Moisture Content - %:			7.2	6.7	6.1
Bulk Density - Mg/m3:			2.03	2.09	2.12
Dry Density - Mg/m3:			1.89	1.96	1.99
Peak					
Angle of Shearing Resistance:(θ)			37		
Effective Cohesion - kPa:			4		



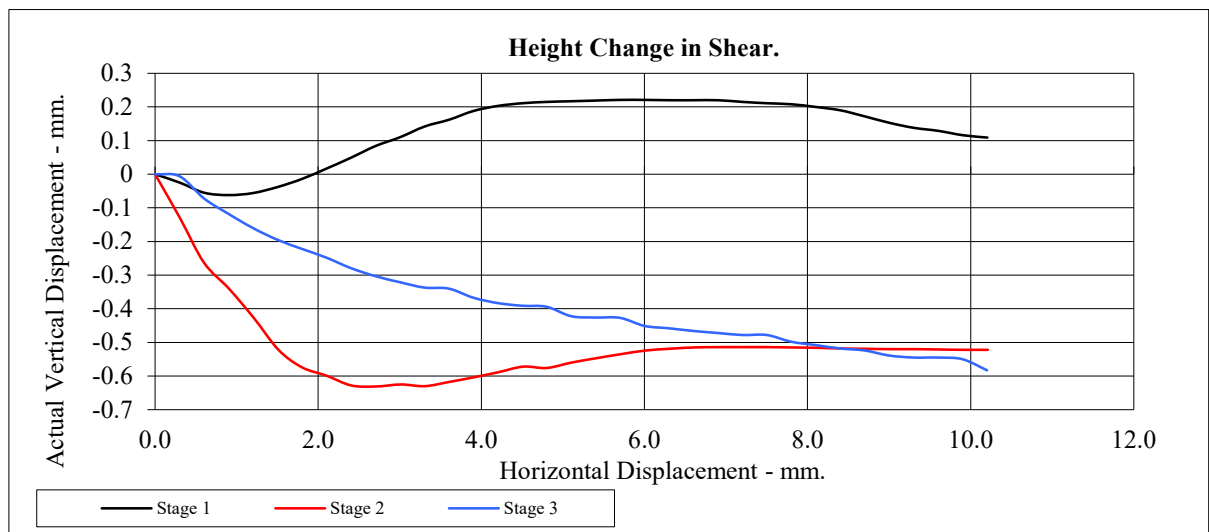
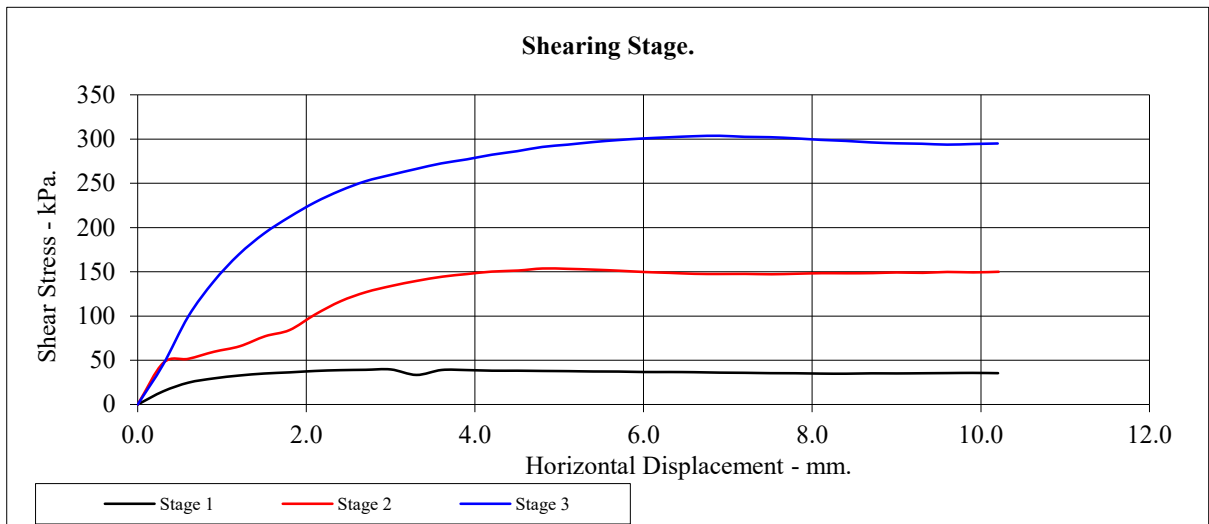
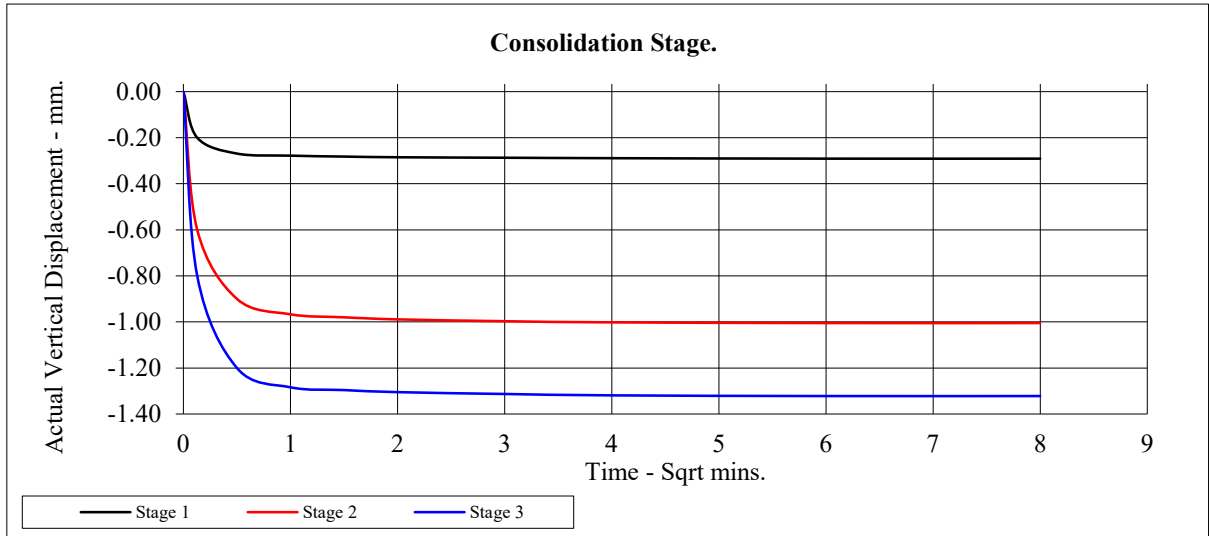
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH10	Top Depth:	6.00
Sample Number:	9	Base Depth:	6.45



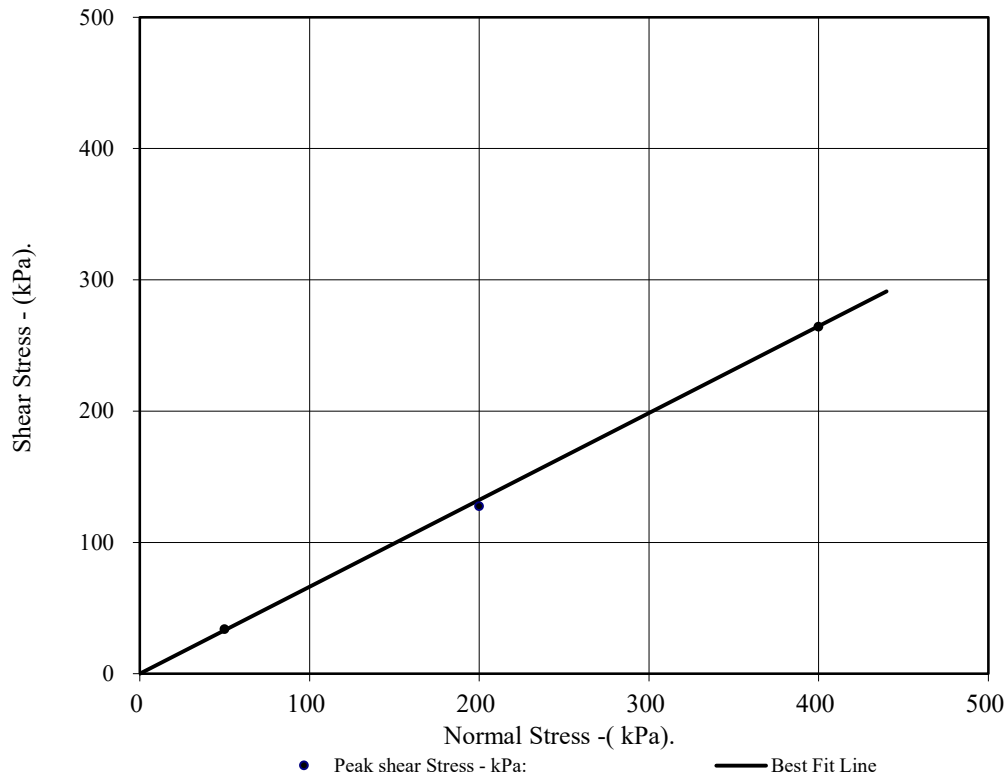
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH10		Top Depth:	10.50	
Sample Number:	15		Base Depth:	10.95	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			19	19	19
Bulk Density - Mg/m3:			2.03	2.03	2.03
Dry Density - Mg/m3:			1.71	1.71	1.71
Voids Ratio:			0.553	0.553	0.553
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.37	24.26	24.15
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			3.60	9.61	5.40
Peak shear Stress - kPa:			34	128	264
Final Consolidated Conditions					
Moisture Content - %:			18	17	16
Bulk Density - Mg/m3:			2.08	2.09	2.10
Dry Density - Mg/m3:			1.77	1.78	1.81
Peak					
Angle of Shearing Resistance:(θ)			34		
Effective Cohesion - kPa:			0		



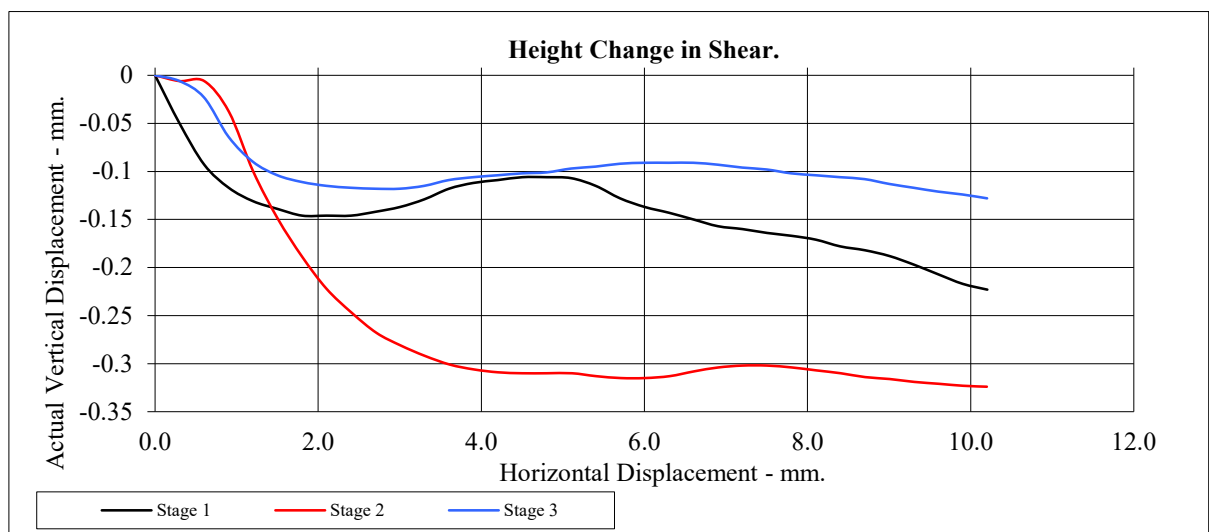
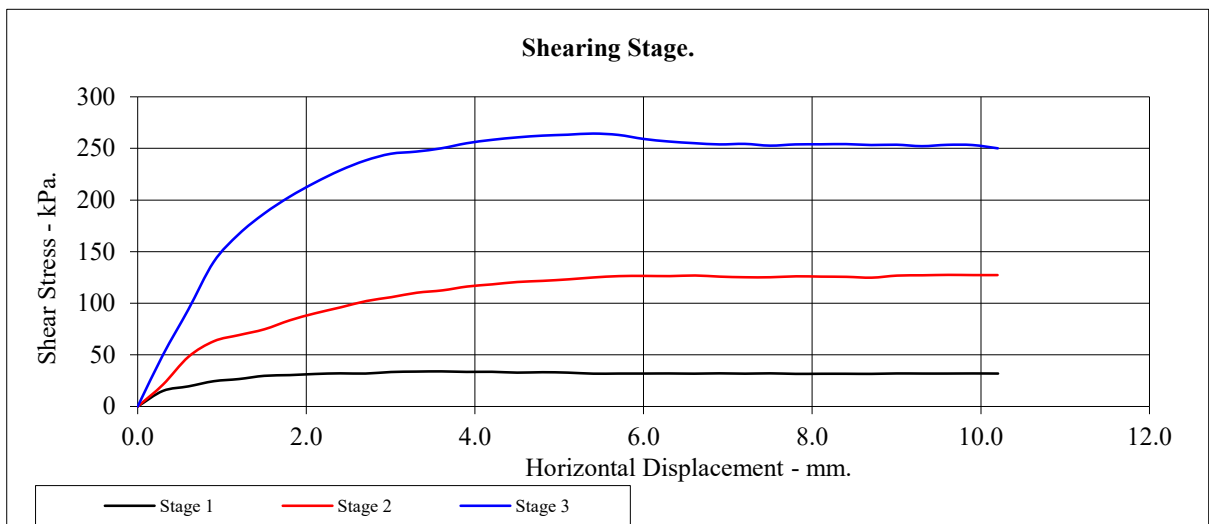
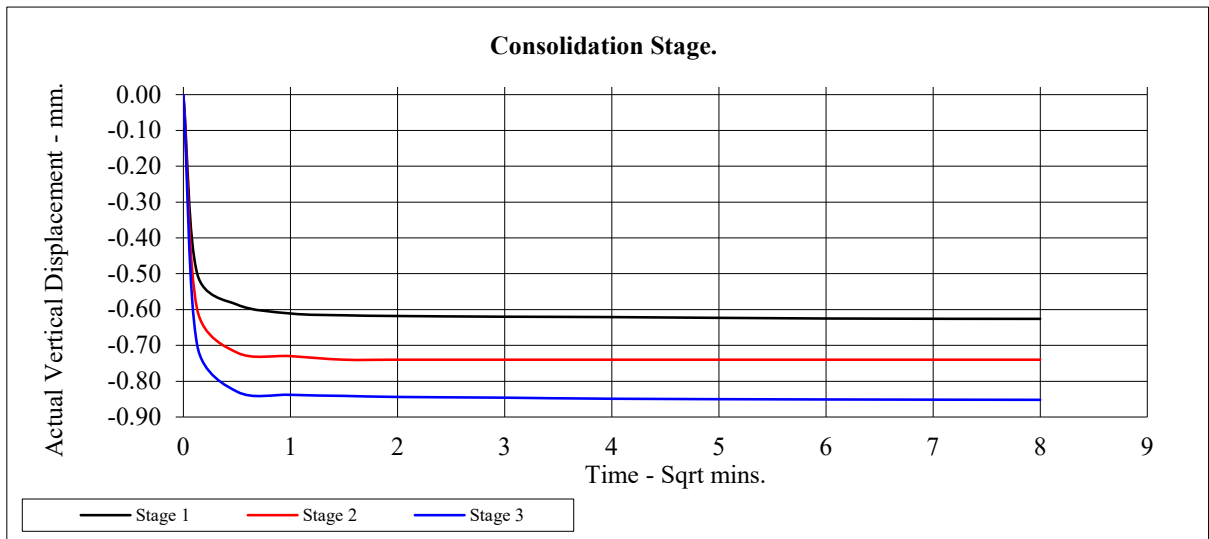
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH10	Top Depth:	10.50
Sample Number:	15	Base Depth:	10.95



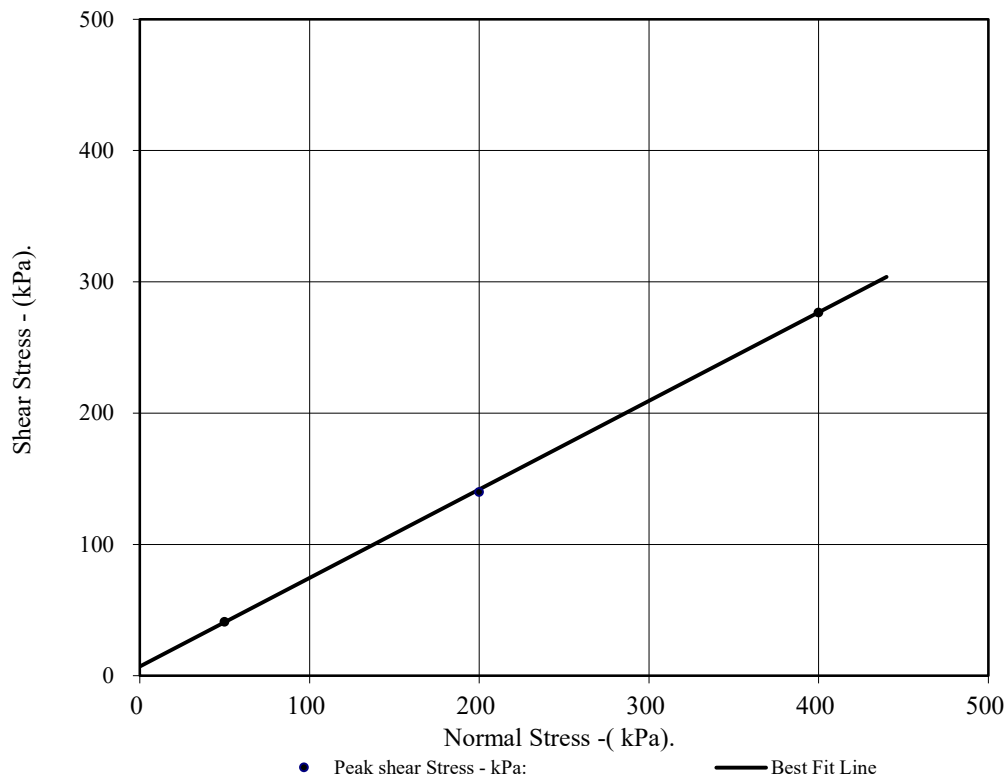
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH11		Top Depth:	0.40	
Sample Number:	2		Base Depth:	1.20	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			25	25	25
Bulk Density - Mg/m3:			2.04	2.04	2.04
Dry Density - Mg/m3:			1.63	1.63	1.63
Voids Ratio:			0.622	0.622	0.622
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.24	23.47	22.34
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			3.60	9.91	9.90
Peak shear Stress - kPa:			41	140	277
Final Consolidated Conditions					
Moisture Content - %:			23	22	20
Bulk Density - Mg/m3:			2.11	2.17	2.28
Dry Density - Mg/m3:			1.71	1.78	1.90
Peak					
Angle of Shearing Resistance:(θ)			34		
Effective Cohesion - kPa:			7		



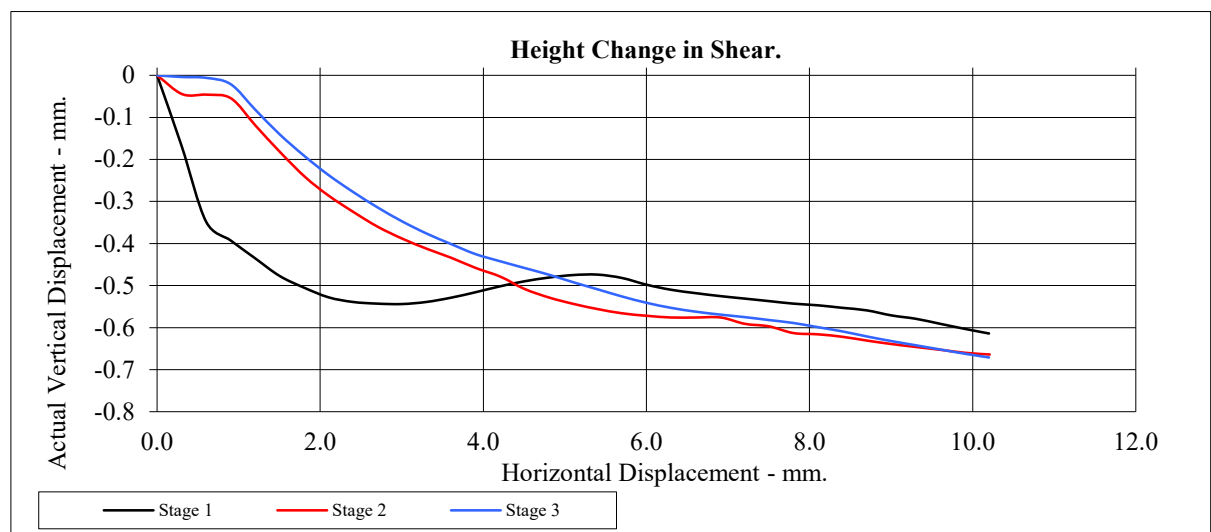
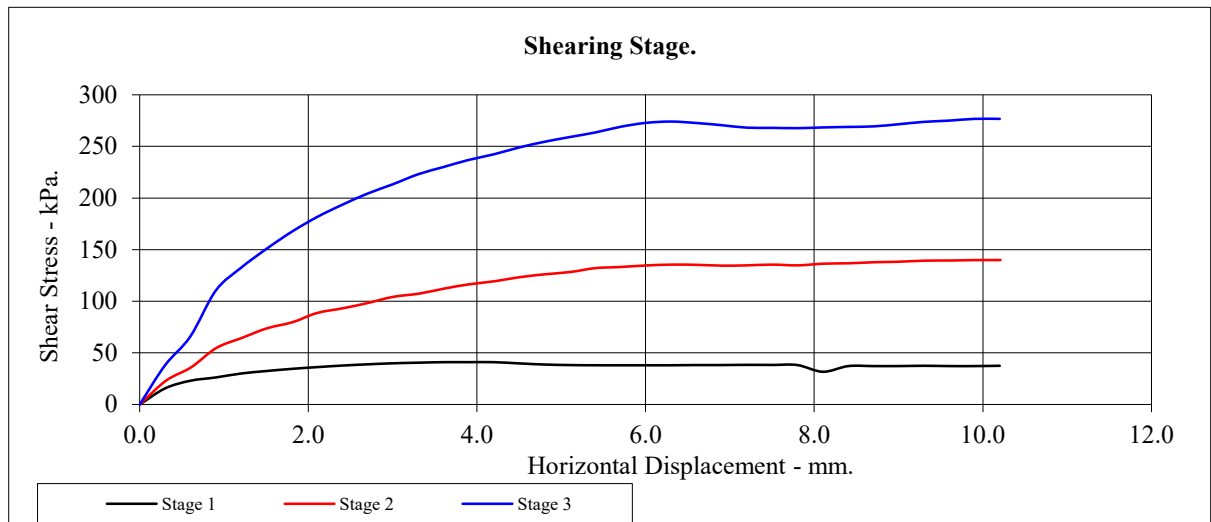
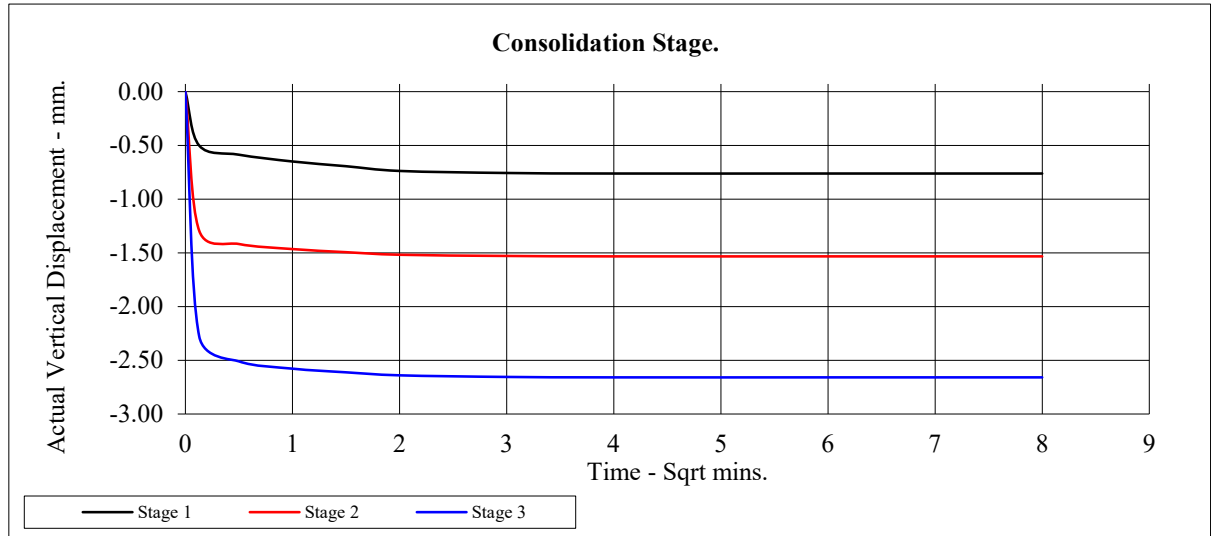
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH11	Top Depth:	0.40
Sample Number:	2	Base Depth:	1.20



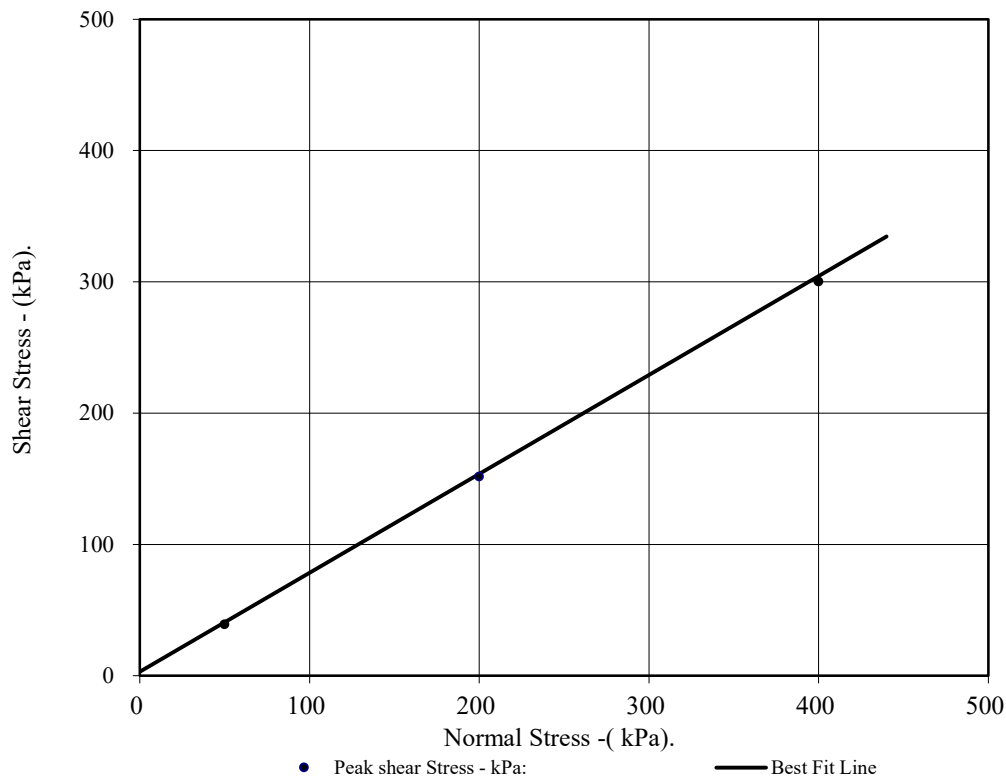
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH11		Top Depth:	3.00	
Sample Number:	7		Base Depth:	3.45	
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			19	19	19
Bulk Density - Mg/m3:			2.03	2.03	2.03
Dry Density - Mg/m3:			1.70	1.70	1.70
Voids Ratio:			0.555	0.555	0.555
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.78	24.55	24.27
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			4.50	3.90	3.00
Peak shear Stress - kPa:			39	152	300
Final Consolidated Conditions					
Moisture Content - %:			19	18	18
Bulk Density - Mg/m3:			2.05	2.07	2.09
Dry Density - Mg/m3:			1.72	1.75	1.78
Peak					
Angle of Shearing Resistance:(θ)			37		
Effective Cohesion - kPa:			3		



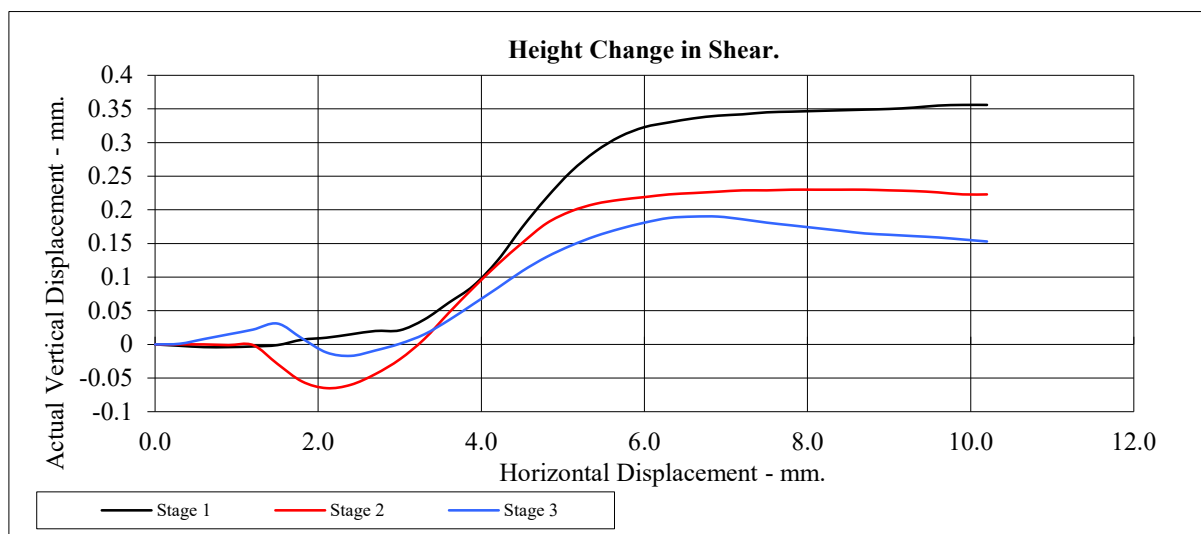
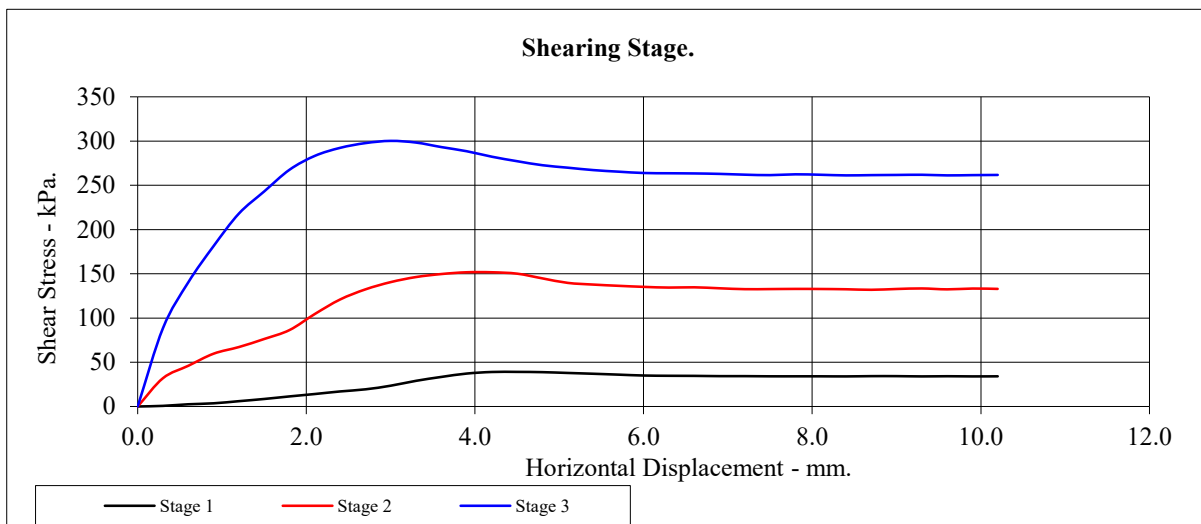
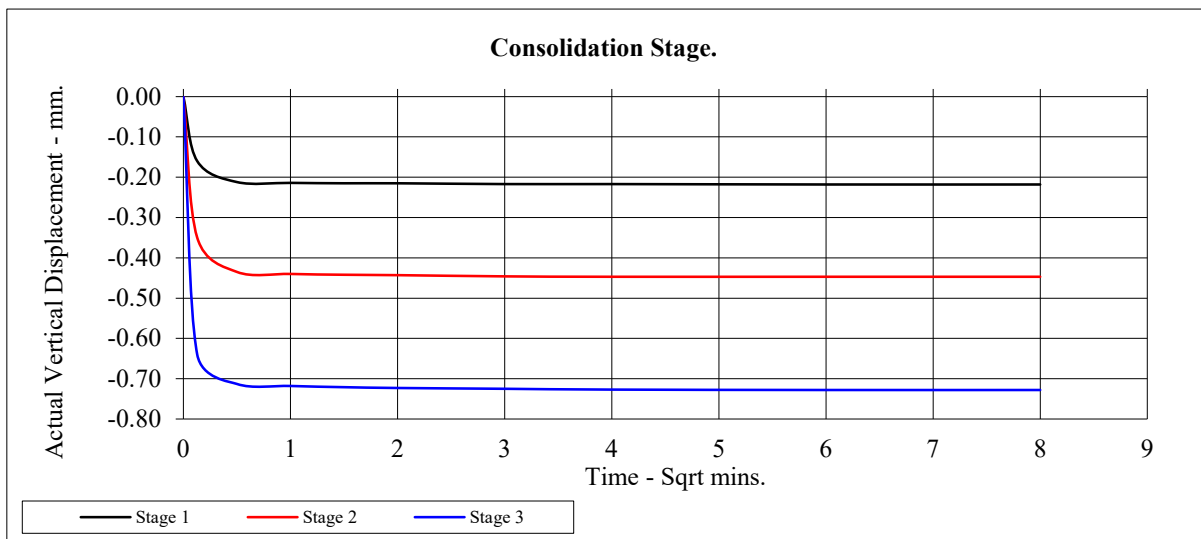
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	BH11	Top Depth:	3.00
Sample Number:	7	Base Depth:	3.45



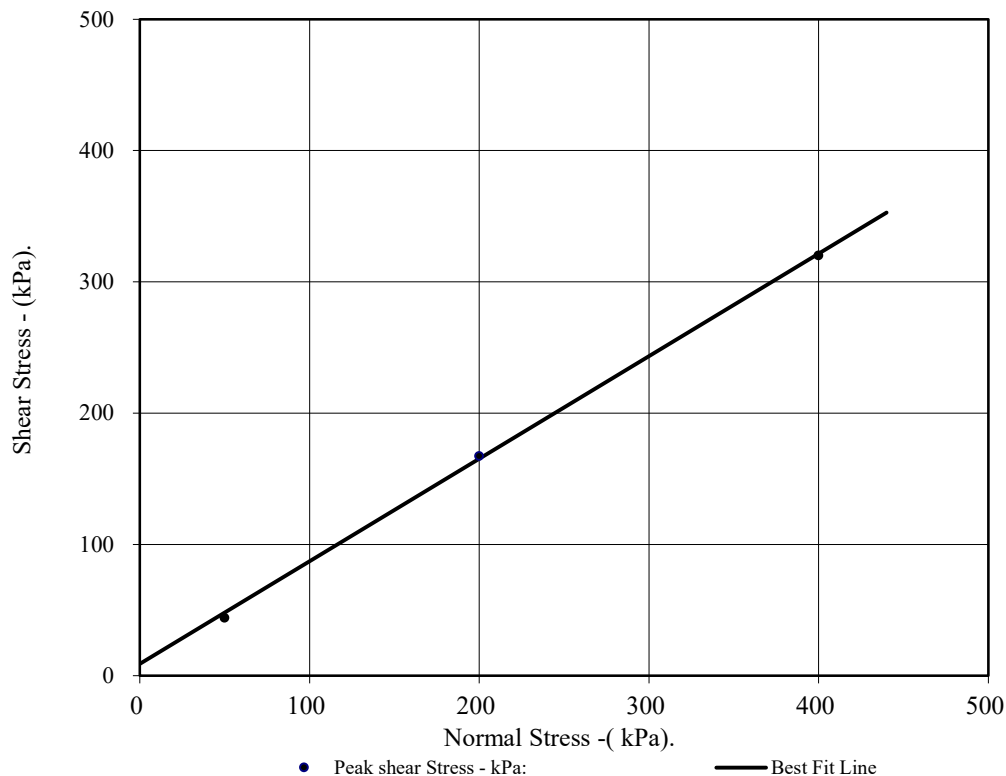
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	TP16		Top Depth:	1.80	
Sample Number:	4		Base Depth:		
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			17	17	17
Bulk Density - Mg/m3:			2.01	2.01	2.01
Dry Density - Mg/m3:			1.72	1.72	1.72
Voids Ratio:			0.545	0.545	0.545
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.69	24.51	24.15
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			6.30	3.90	3.00
Peak shear Stress - kPa:			44	167	320
Final Consolidated Conditions					
Moisture Content - %:			17	15	15
Bulk Density - Mg/m3:			2.04	2.05	2.08
Dry Density - Mg/m3:			1.75	1.78	1.81
Peak					
Angle of Shearing Resistance:(θ)			38		
Effective Cohesion - kPa:			9		



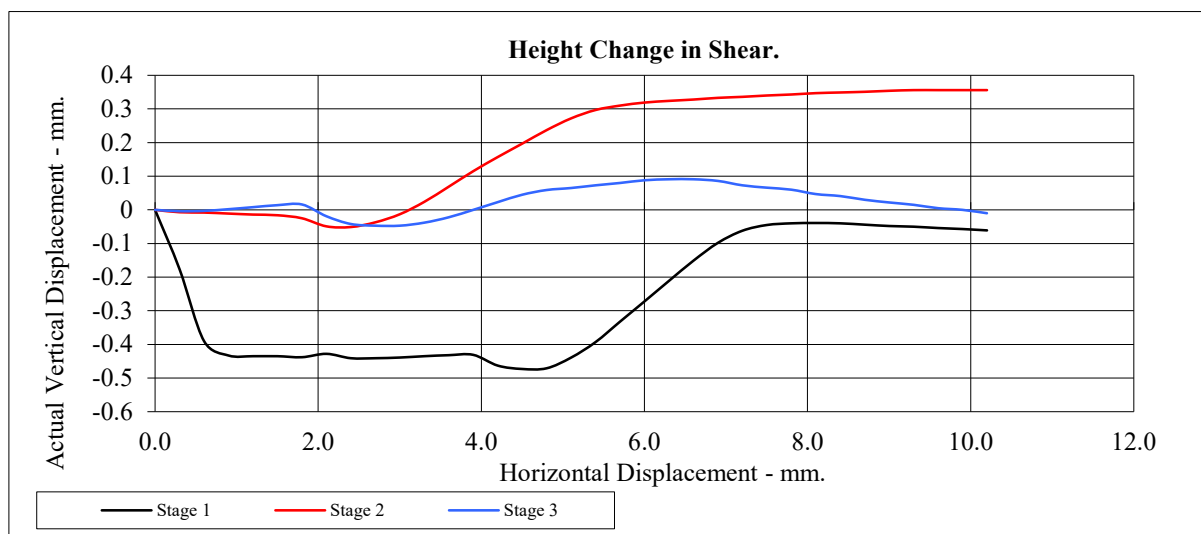
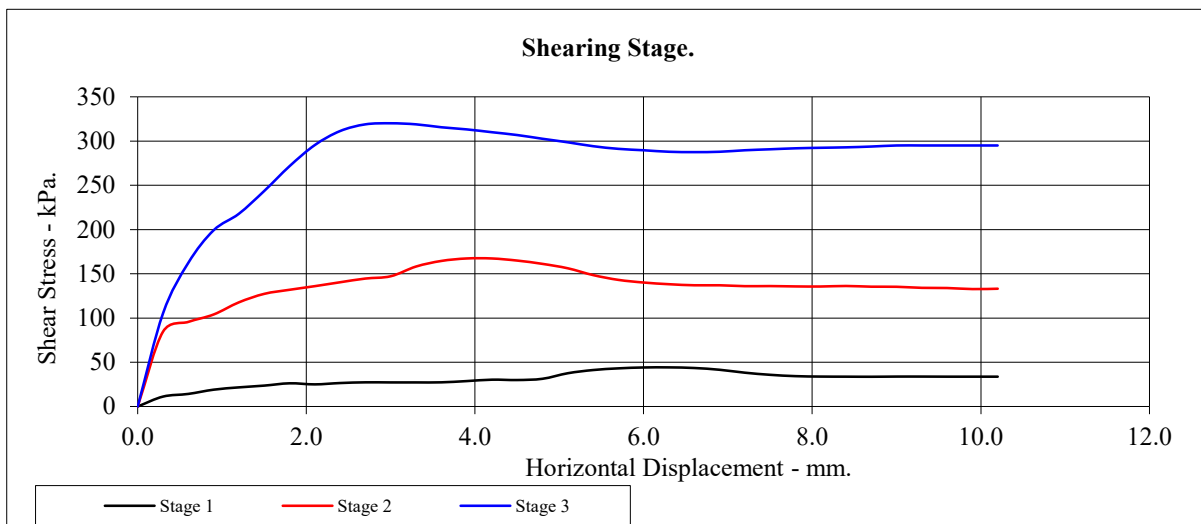
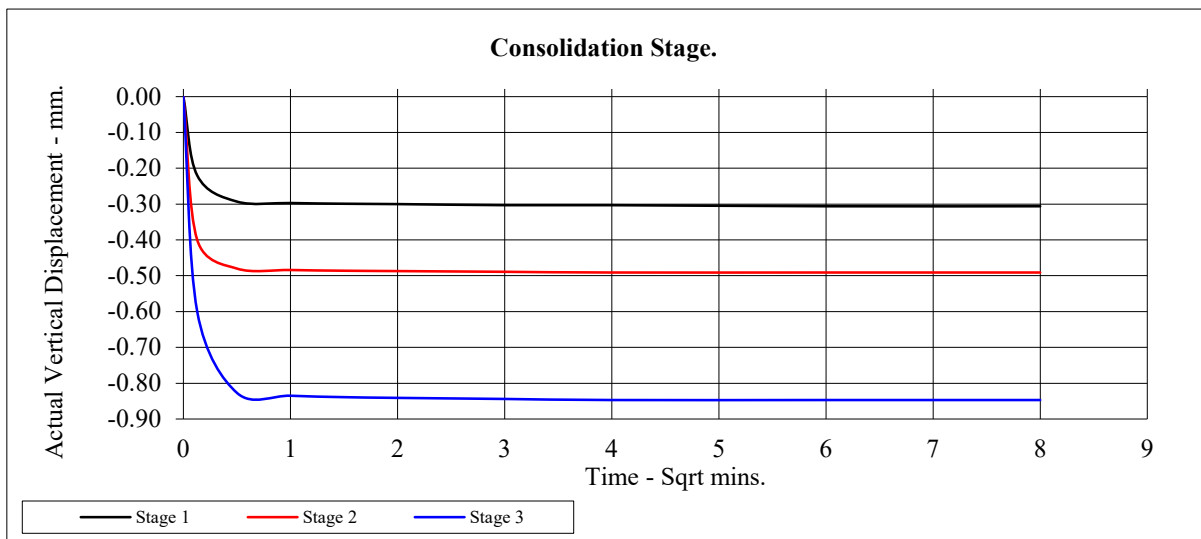
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	TP16	Top Depth:	1.80
Sample Number:	4	Base Depth:	



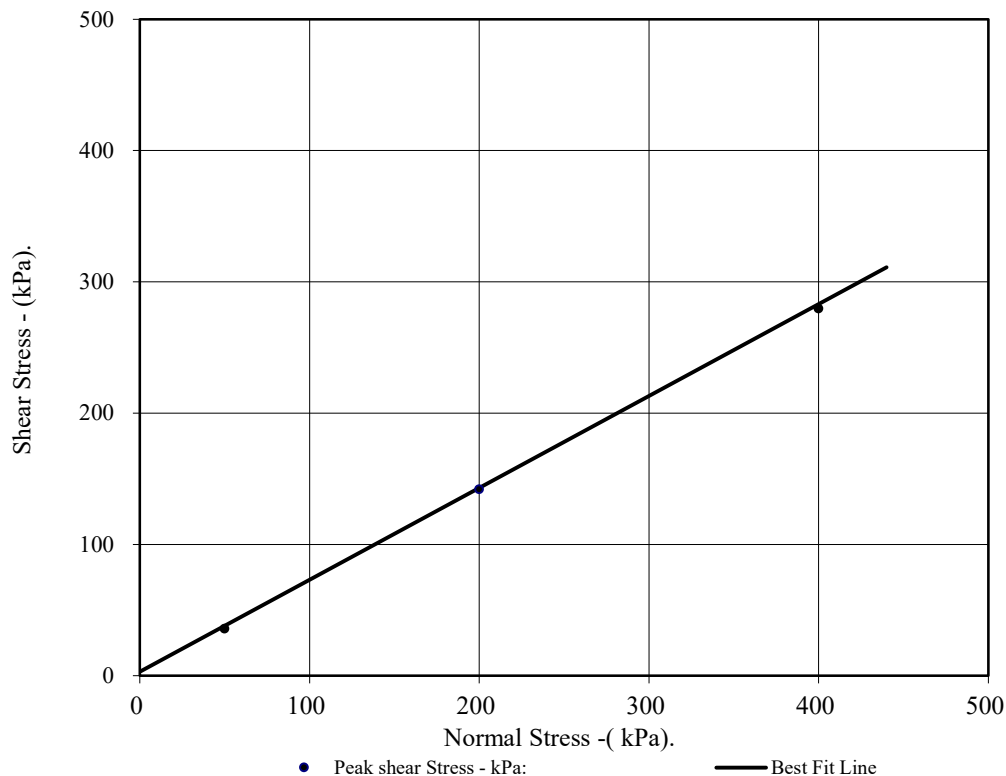
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CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	TP22		Top Depth:	0.80	
Sample Number:	2		Base Depth:		
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.65	Assumed	Remarks:		
Sample Preparation:	Material tested passing 2mm sieve Remoulded using hand tamped effort.				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			25.00	25.00	25.00
Length - mm:			59.97	59.97	59.97
Moisture Content - %:			10	10	10
Bulk Density - Mg/m3:			2.05	2.05	2.05
Dry Density - Mg/m3:			1.86	1.86	1.86
Voids Ratio:			0.426	0.426	0.426
Normal Pressure- kPa			50	200	400
Consolidation Stage					
Consolidated Height - mm:			24.68	24.00	23.76
Shearing Stage					
Rate of Strain - mm/min			0.60	0.60	0.60
Displacement at peak shear stress - mm			1.80	3.92	9.00
Peak shear Stress - kPa:			36	142	280
Final Consolidated Conditions					
Moisture Content - %:			7.7	7.2	6.7
Bulk Density - Mg/m3:			2.08	2.14	2.16
Dry Density - Mg/m3:			1.93	1.99	2.02
Peak					
Angle of Shearing Resistance:(θ)			35		
Effective Cohesion - kPa:			3		



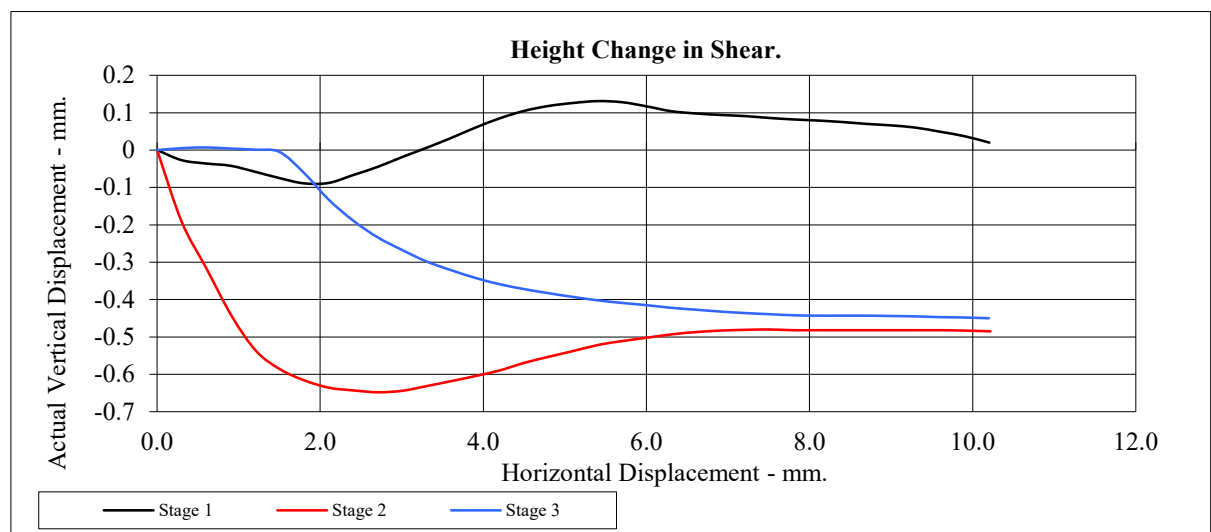
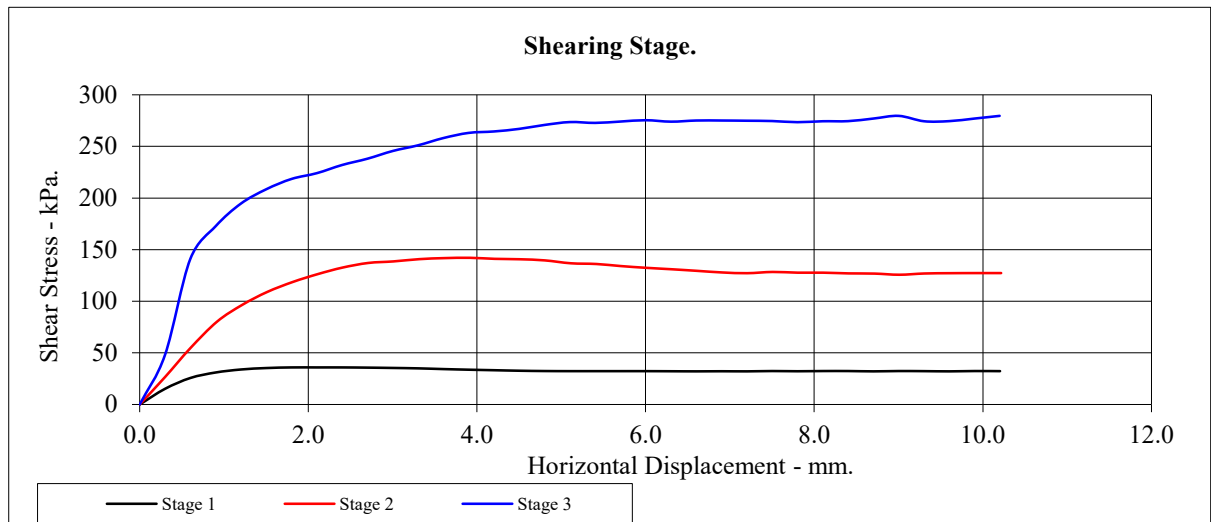
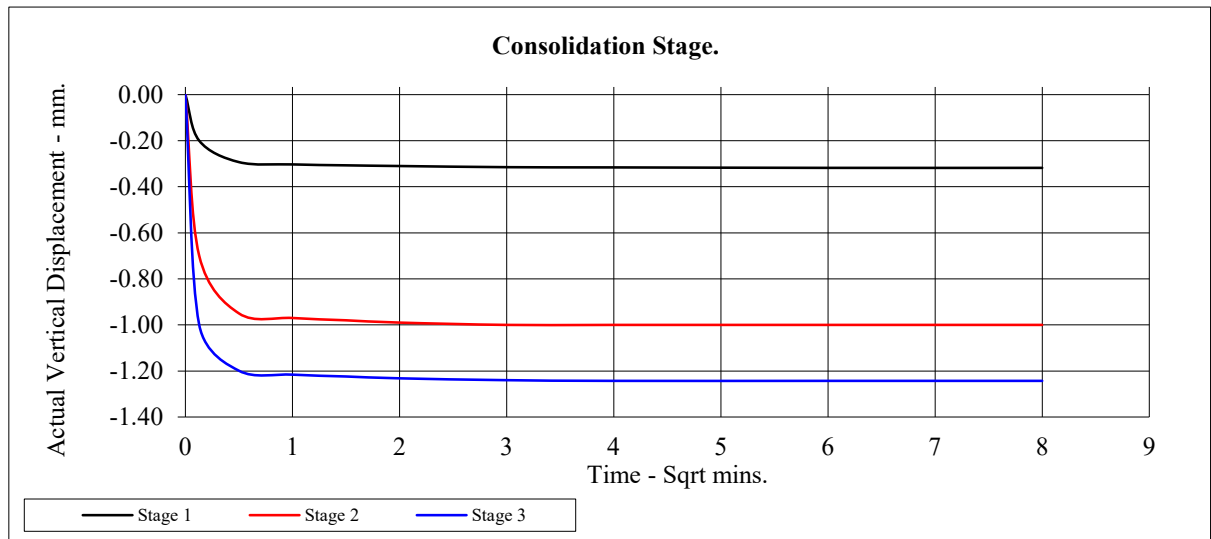
Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936

CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 4

Hole Number:	TP22	Top Depth:	0.80
Sample Number:	2	Base Depth:	



Cowm Top

Contract No:
PSL24/5600
Client Ref:
STV5936



4161



Professional Soils Laboratory
5/7 Hexthorpe Road
Hexthorpe
Doncaster
DN4 0AR

Analytical Test Report: L24/07426/PSL - 24-48595

Your Project Reference:	PSL24/5600 Cowm Top		
Your Order Number:	PSL24/5600	Samples Received / Instructed:	13/08/2024 / 13/08/2024
Report Issue Number:	1	Sample Tested:	13/08 to 21/08/2024
Samples Analysed:	35 samples	Report issued:	21/08/2024

Signed



James Gane
Analytical Services Manager
CTS Group

Notes:

General

Please refer to Methodologies page for details pertaining to the analytical methods undertaken.

Samples will be retained for 14 days after issue of this report unless otherwise requested.

Moisture Content was determined in accordance with CTS method statement MS - CL - Sample Prep, oven dried at <30°C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Samples were supplied by customer, results apply to the samples as received.

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited, subUKAS - Subcontracted to a laboratory UKAS accredited for this test, subMCERTS - Subcontracted to a laboratory MCERTS accredited for this test

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Date of Issue: 08.08.2024

Issued by: J. Gane

Issue No: 4

Rev No: 11



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L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Analytical Test Results - Chemical Analysis

Lab Reference			389442	389443	389444	389445	389446	389447
Client Sample ID			-	-	-	-	-	-
Client Sample Location			BH01	BH01	BH01	BH01	BH01	BH02
Client Sample Type			B	D	D	D	D	B
Client Sample Number			5	9	15	18	23	2
Depth - Top (m)			0.40	2.50	5.50	8.50	14.50	0.40
Depth - Bottom (m)			1.20	2.50	5.95	8.95	14.95	1.00
Date of Sampling			-	-	-	-	-	-
Time of Sampling			-	-	-	-	-	-
Sample Matrix			Clay	Clay	Clay	Clay	Clay	Clay
Determinant	Units	Accreditation						
Water soluble sulphate (as SO ₄)	(mg/l)	u	< 10	14	< 10	37	11	11
Acid Soluble Sulphate	(%)	u	< 0.01	0.01	< 0.01	0.02	0.02	0.03
Total Sulphur	(%)	UKAS	< 0.01	0.02	< 0.01	0.01	< 0.01	0.02
pH Value	pH Units	MCERTS	6.5	6.9	7.1	8.6	8.7	6.2
Water Soluble Chloride	(mg/l)	u	18	3.0	3.9	19	3.3	0.2
Water Soluble Nitrate (As NO ₃)	(mg/l)	u	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Magnesium	(mg/l)	u	< 7.50	11	4.0	5.2	4.8	< 7.50
Water Soluble Ammonium Ion	(mg/l)	u	1.3	1.3	1.3	1.3	1.3	1.3



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L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Analytical Test Results - Chemical Analysis

Lab Reference			389448	389449	389450	389451	389452	389453
Client Sample ID			-	-	-	-	-	-
Client Sample Location			BH02	BH02	BH02	BH03	BH03	BH03
Client Sample Type			D	D	D	D	D	B
Client Sample Number			8	14	18	8	13	16
Depth - Top (m)			4.00	8.00	11.00	3.00	6.50	9.50
Depth - Bottom (m)			4.45	8.45	11.45	3.45	6.95	10.00
Date of Sampling			-	-	-	-	-	-
Time of Sampling			-	-	-	-	-	-
Sample Matrix			Clay	Clay	Clay	Clay	Clay	Clay
Determinant	Units	Accreditation						
Water soluble sulphate (as SO ₄)	(mg/l)	u	68	14	88	57	16	52
Acid Soluble Sulphate	(%)	u	0.04	< 0.01	0.05	0.02	< 0.01	0.03
Total Sulphur	(%)	UKAS	0.07	0.02	0.05	0.06	0.02	0.06
pH Value	pH Units	MCERTS	7.8	8.3	8.0	7.9	7.1	8.1
Water Soluble Chloride	(mg/l)	u	4.8	4.3	3.0	3.8	6.6	7.6
Water Soluble Nitrate (As NO ₃)	(mg/l)	u	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Magnesium	(mg/l)	u	11	3.2	11	12	< 7.50	5.3
Water Soluble Ammonium Ion	(mg/l)	u	1.3	1.3	1.3	1.3	1.3	1.3



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L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Analytical Test Results - Chemical Analysis

Lab Reference			389454	389455	389456	389457	389458	389459
Client Sample ID			-	-	-	-	-	-
Client Sample Location			BH04	BH04	BH05	BH05	BH06	BH06
Client Sample Type			SPTLS	SPTLS	B	B	D	B
Client Sample Number			4	10	4	19	5	16
Depth - Top (m)			1.20	4.50	2.00	11.00	1.50	9.00
Depth - Bottom (m)			1.65	4.95	2.45	11.45	1.95	9.45
Date of Sampling			-	-	-	-	-	-
Time of Sampling			-	-	-	-	-	-
Sample Matrix			Clay	Clay	Clay	Clay	Clay	Sand
Determinant	Units	Accreditation						
Water soluble sulphate (as SO ₄)	(mg/l)	u	13	< 10	< 10	< 10	12	33
Acid Soluble Sulphate	(%)	u	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total Sulphur	(%)	UKAS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02
pH Value	pH Units	MCERTS	5.8	5.9	6.4	6.5	5.5	8.0
Water Soluble Chloride	(mg/l)	u	6.5	7.7	7.4	8.4	5.5	5.9
Water Soluble Nitrate (As NO ₃)	(mg/l)	u	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Magnesium	(mg/l)	u	< 7.50	< 7.50	< 7.50	< 7.50	< 7.50	5.8
Water Soluble Ammonium Ion	(mg/l)	u	1.3	1.3	1.3	1.3	1.3	1.3



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L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Analytical Test Results - Chemical Analysis

Lab Reference			389460	389461	389462	389463	389464	389465
Client Sample ID			-	-	-	-	-	-
Client Sample Location			BH07	BH07	BH07	BH08	BH08	BH08
Client Sample Type			B	D	SPTLS	B	SPTLS	SPTLS
Client Sample Number			3	16	21	2	5	10
Depth - Top (m)			1.50	8.50	12.00	0.40	3.00	6.00
Depth - Bottom (m)			1.95	8.50	12.45	1.50	3.45	6.45
Date of Sampling			-	-	-	-	-	-
Time of Sampling			-	-	-	-	-	-
Sample Matrix			Clay	Clay	Clay	Clay	Sand	Clay
Determinant	Units	Accreditation						
Water soluble sulphate (as SO ₄)	(mg/l)	u	22	52	19	< 10	< 10	15
Acid Soluble Sulphate	(%)	u	< 0.01	0.03	0.01	< 0.01	< 0.01	0.01
Total Sulphur	(%)	UKAS	0.04	0.07	0.02	< 0.01	< 0.01	< 0.01
pH Value	pH Units	MCERTS	7.7	7.9	8.1	6.2	6.6	6.0
Water Soluble Chloride	(mg/l)	u	16	3.9	5.0	9.5	8.0	6.0
Water Soluble Nitrate (As NO ₃)	(mg/l)	u	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Magnesium	(mg/l)	u	< 7.50	5.6	3.3	< 7.50	< 7.50	< 7.50
Water Soluble Ammonium Ion	(mg/l)	u	1.3	1.3	1.3	1.3	1.3	2.1



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L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Analytical Test Results - Chemical Analysis

Lab Reference			389466	389467	389468	389469	389470	389471
Client Sample ID			-	-	-	-	-	-
Client Sample Location			BH08	BH09	BH09	BH10	BH10	BH11
Client Sample Type			SPTLS	SPTLS	SPTLS	SPTLS	SPTLS	SPTLS
Client Sample Number			13	11	16	4	14	4
Depth - Top (m)			9.00	1.20	8.00	1.50	9.00	1.50
Depth - Bottom (m)			9.45	1.65	8.45	1.95	9.45	1.95
Date of Sampling			-	-	-	-	-	-
Time of Sampling			-	-	-	-	-	-
Sample Matrix			Sand	Clay	Clay	Clay	Sand	Clay
Determinant	Units	Accreditation						
Water soluble sulphate (as SO ₄)	(mg/l)	u	< 10	< 10	< 10	21	10	< 10
Acid Soluble Sulphate	(%)	u	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Total Sulphur	(%)	UKAS	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01
pH Value	pH Units	MCERTS	6.9	6.0	6.3	7.0	7.1	6.7
Water Soluble Chloride	(mg/l)	u	1.9	1.4	2.6	3.2	3.2	2.9
Water Soluble Nitrate (As NO ₃)	(mg/l)	u	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Magnesium	(mg/l)	u	< 7.50	< 7.50	< 7.50	< 7.50	< 7.50	< 7.50
Water Soluble Ammonium Ion	(mg/l)	u	1.3	1.3	1.3	4.0	1.3	1.4



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L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Analytical Test Results - Chemical Analysis

Lab Reference			389472	389473	389475	389476
Client Sample ID			-	-	-	-
Client Sample Location			BH11	BH11	TP09	TP11
Client Sample Type			SPTLS	D	B	B
Client Sample Number			8	16	3	3
Depth - Top (m)			3.00	8.00	1.50	1.50
Depth - Bottom (m)			3.45	8.00	1.50	1.50
Date of Sampling			-	-	-	-
Time of Sampling			-	-	-	-
Sample Matrix			Clay	Clay	Clay	Clay
Determinant	Units	Accreditation				
Water soluble sulphate (as SO ₄)	(mg/l)	u	30	60	33	89
Acid Soluble Sulphate	(%)	u	0.01	0.04	0.02	0.03
Total Sulphur	(%)	UKAS	0.04	0.11	0.04	0.04
pH Value	pH Units	MCERTS	7.4	8.2	7.8	7.9
Water Soluble Chloride	(mg/l)	u	3.0	3.2	2.0	1.8
Water Soluble Nitrate (As NO ₃)	(mg/l)	u	< 1.0	< 1.0	8.8	< 1.0
Water Soluble Magnesium	(mg/l)	u	5.0	6.6	8.7	10
Water Soluble Ammonium Ion	(mg/l)	u	1.3	1.8	1.3	1.3

L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Soils - No Testing Scheduled

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Status
389474	-	BH11	D	17	No Testing Scheduled



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L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
389442	-	BH01	B	5	Brown slightly gravelly silty clay	-	-	100
389443	-	BH01	D	9	Brown silty clay	-	-	100
389444	-	BH01	D	15	Brown sandy clay	-	-	100
389445	-	BH01	D	18	Brown sandy clay	-	-	100
389446	-	BH01	D	23	Brown sandy clay	-	-	100
389447	-	BH02	B	2	Brown silty clay with occasional organic matter	-	-	100
389448	-	BH02	D	8	Brown silty clay	-	-	100
389449	-	BH02	D	14	Brown sandy clay	-	-	100
389450	-	BH02	D	18	Brown silty clay	-	-	100
389451	-	BH03	D	8	Brown silty clay	-	-	100
389452	-	BH03	D	13	Brown sandy clay	-	-	100
389453	-	BH03	B	16	Brown silty clay	-	-	100
389454	-	BH04	SPTLS	4	Brown silty clay	-	-	100
389455	-	BH04	SPTLS	10	Brown sandy clay with rare organic matter	-	-	100
389456	-	BH05	B	4	Brown sandy clay	-	-	100
389457	-	BH05	B	19	Brown sandy clay	-	-	100
389458	-	BH06	D	5	Brown silty clay with rare rootlets	-	-	100
389459	-	BH06	B	16	Brown silty sand	-	-	100
389460	-	BH07	B	3	Brown silty clay with rare organic matter	-	-	100
389461	-	BH07	D	16	Brown silty clay	-	-	100
389462	-	BH07	SPTLS	21	Brown silty clay	-	-	100
389463	-	BH08	B	2	Brown silty clay with rare organic matter	-	-	100
389464	-	BH08	SPTLS	5	Brown silty sand	-	-	100
389465	-	BH08	SPTLS	10	Brown slightly gravelly silty clay	-	-	100
389466	-	BH08	SPTLS	13	Brown silty sand	-	-	100



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L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
389467	-	BH09	SPTLS	11	Brown silty clay	-	-	100
389468	-	BH09	SPTLS	16	Brown silty clay	-	-	100
389469	-	BH10	SPTLS	4	Brown silty clay	-	-	100
389470	-	BH10	SPTLS	14	Brown silty sand	-	-	100
389471	-	BH11	SPTLS	4	Brown silty clay	-	-	100
389472	-	BH11	SPTLS	8	Brown silty clay	-	-	100
389473	-	BH11	D	16	Brown silty clay	-	-	100
389475	-	TP09	B	3	Brown silty clay	-	-	100
389476	-	TP11	B	3	Brown silty clay	-	-	100



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L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Sample Comments

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
389442	-	BH01	B	5	
389443	-	BH01	D	9	
389444	-	BH01	D	15	
389445	-	BH01	D	18	
389446	-	BH01	D	23	
389447	-	BH02	B	2	
389448	-	BH02	D	8	
389449	-	BH02	D	14	
389450	-	BH02	D	18	
389451	-	BH03	D	8	
389452	-	BH03	D	13	
389453	-	BH03	B	16	
389454	-	BH04	SPTLS	4	
389455	-	BH04	SPTLS	10	
389456	-	BH05	B	4	
389457	-	BH05	B	19	
389458	-	BH06	D	5	
389459	-	BH06	B	16	
389460	-	BH07	B	3	
389461	-	BH07	D	16	
389462	-	BH07	SPTLS	21	
389463	-	BH08	B	2	
389464	-	BH08	SPTLS	5	
389465	-	BH08	SPTLS	10	
389466	-	BH08	SPTLS	13	
389467	-	BH09	SPTLS	11	



L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

7 - 11 Harding Street
Leicester
LE1 4DH

Sample Comments

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
389468	-	BH09	SPTLS	16	
389469	-	BH10	SPTLS	4	
389470	-	BH10	SPTLS	14	
389471	-	BH11	SPTLS	4	
389472	-	BH11	SPTLS	8	
389473	-	BH11	D	16	
389475	-	TP09	B	3	
389476	-	TP11	B	3	



L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Details
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
ASSO4S	MS - CL - Acid Soluble Sulphate	Oven Dried	Passing 2mm test sieve	Determination of total sulphate in soils by acid extraction followed by ICP analysis
HOLD	No Testing Scheduled	-	-	No Testing Scheduled
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis
1377TS-ELT	BS1377 Total Sulphur Content by HTC	Oven dried	BS1377 : Part 1 : 2016	Total Sulphur Content testing of Soil in accordance with BS 1377 : Part 3 : 2018 + A1 : 2021 Clause 7.10 (using Eltra CS-800 Analyser)
1377MGICP	BS1377 WS Magnesium (ICP)	Oven dried	Passing 2mm test sieve	Water Soluble Magnesium testing of Soil in accordance with BS 1377 : Part 3 : 2018 + A1 : 2021 Clause 10.



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L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided

C - Received in inappropriate container

H - Contains headspace

T - Temperature on receipt exceeds storage temperature

R - Sample(s) received with less than 96 hours for testing to commence/complete, any result formally classed as deviating will be marked with an X against the applicable test (i.e. RX)

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
389442	-	BH01	B	5		A
389443	-	BH01	D	9		A
389444	-	BH01	D	15		A
389445	-	BH01	D	18		A
389446	-	BH01	D	23		A
389447	-	BH02	B	2		A
389448	-	BH02	D	8		A
389449	-	BH02	D	14		A
389450	-	BH02	D	18		A
389451	-	BH03	D	8		A
389452	-	BH03	D	13		A
389453	-	BH03	B	16		A
389454	-	BH04	SPTLS	4		A
389455	-	BH04	SPTLS	10		A
389456	-	BH05	B	4		A
389457	-	BH05	B	19		A
389458	-	BH06	D	5		A
389459	-	BH06	B	16		A
389460	-	BH07	B	3		A
389461	-	BH07	D	16		A
389462	-	BH07	SPTLS	21		A
389463	-	BH08	B	2		A
389464	-	BH08	SPTLS	5		A
389465	-	BH08	SPTLS	10		A
389466	-	BH08	SPTLS	13		A
389467	-	BH09	SPTLS	11		A
389468	-	BH09	SPTLS	16		A
389469	-	BH10	SPTLS	4		A
389470	-	BH10	SPTLS	14		A
389471	-	BH11	SPTLS	4		A
389472	-	BH11	SPTLS	8		A



L24/07426/PSL - 24-48595

Project Reference - PSL24/5600 Cowm Top

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

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C - Received in inappropriate container

H - Contains headspace

T - Temperature on receipt exceeds storage temperature

R - Sample(s) received with less than 96 hours for testing to commence/complete, any result formally classed as deviating will be marked with an X against the applicable test (i.e. RX)

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
389473	-	BH11	D	16		A
389475	-	TP09	B	3		A
389476	-	TP11	B	3		A