



TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.4 and 5

Client: BWB Consulting Limited
Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB
Contact: Jade Allen
Site Name: Trowbridge
Site Address: Not Given

Client Reference: LDQ2048
Job Number: 19-28029
Date Sampled: 31/01/2019
Date Received: 04/02/2019
Date Tested: 12/02/2019
Sampled By: Not Given

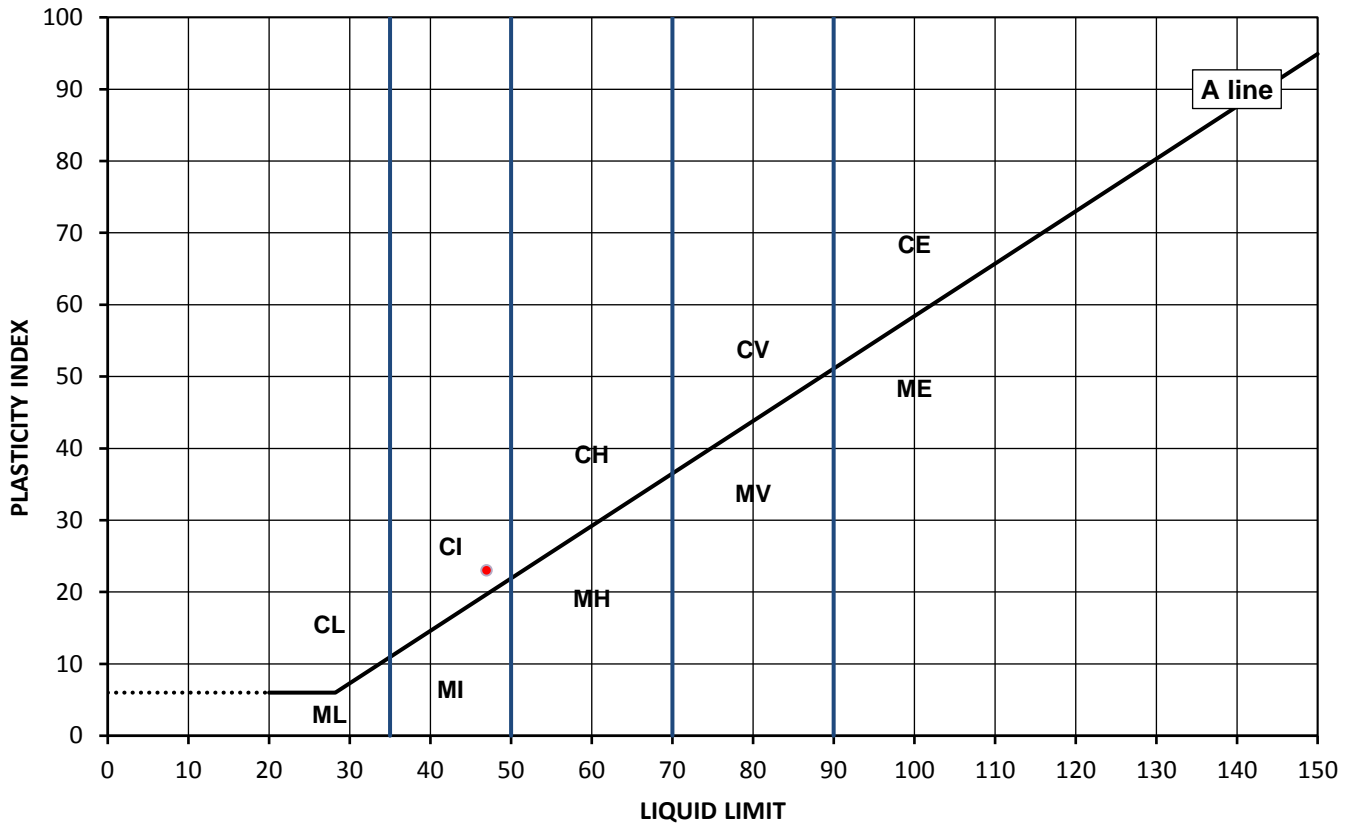
Test Results

Laboratory Reference: 1150418
Hole No.: DS01
Sample Reference: 4
Soil Description: Brownish grey slightly gravelly slightly sandy CLAY

Depth Top [m]: 1.70
Depth Base [m]: 1.80
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
23	47	24	23	96



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	Plasticity	Liquid Limit
M	Silt	L	Low
		I	Medium
		H	High
		V	Very high
		E	Extremely high
			below 35
			35 to 50
			50 to 70
			70 to 90
			exceeding 90
	Organic	O	append to classification for organic material (eg CHO)

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 20/02/2019

Signed: Darren Berrill
Geotechnical General Manager

GF 232.3

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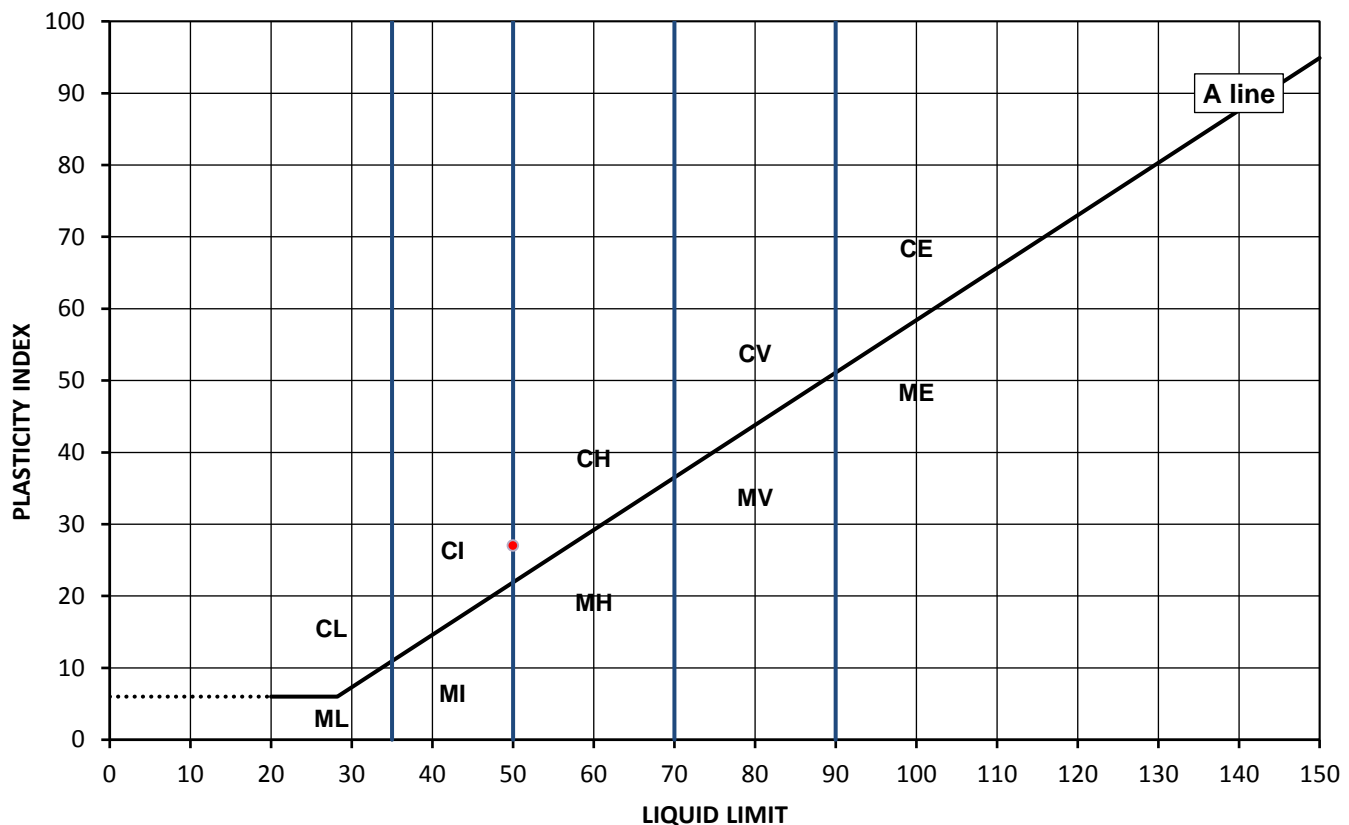
Test Results

Laboratory Reference: 1150419
Hole No.: DS01
Sample Reference: 5
Soil Description: Brown mottled grey slightly sandy CLAY

Depth Top [m]: 2.20
Depth Base [m]: 2.30
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
31	50	23	27	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	Plasticity	Liquid Limit
M	Silt	L	Low
		I	Medium
		H	High
		V	Very high
		E	Extremely high
			below 35
			35 to 50
			50 to 70
			70 to 90
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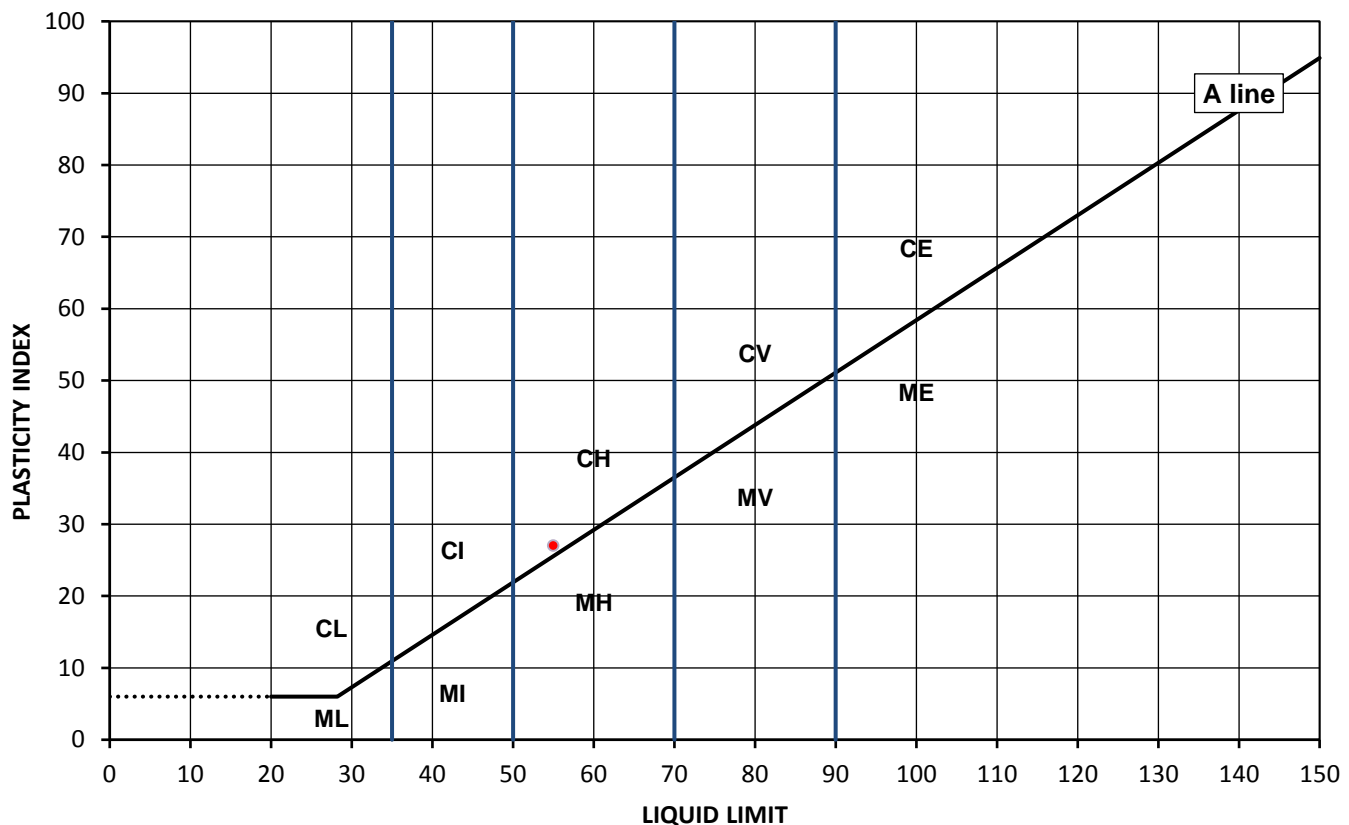
Test Results

Laboratory Reference: 1150420
Hole No.: DS02
Sample Reference: 5
Soil Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 3.00
Depth Base [m]: 3.10
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
27	55	28	27	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	Plasticity	Liquid Limit
M	Silt	L	Low
		I	Medium
		H	High
		V	Very high
		E	Extremely high
			below 35
			35 to 50
			50 to 70
			70 to 90
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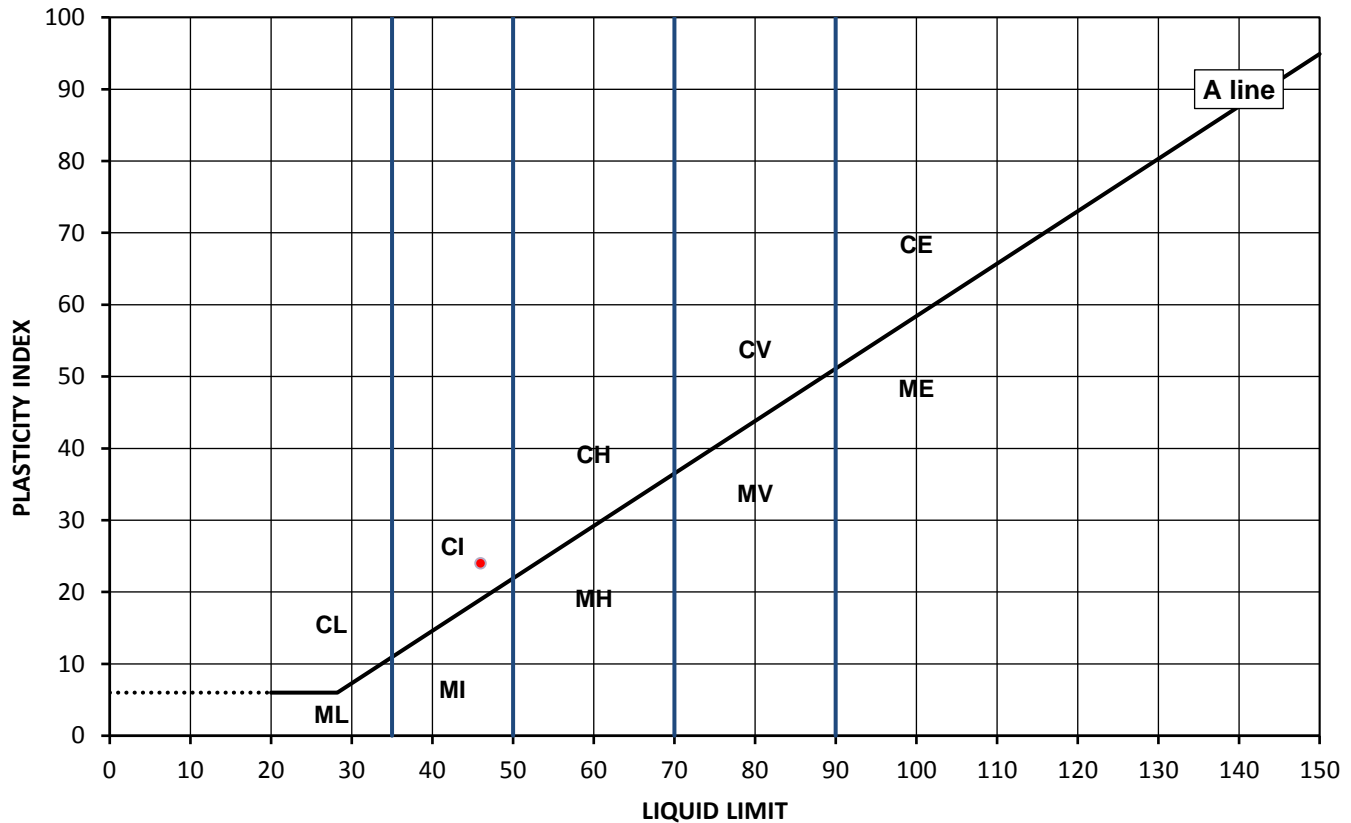
Test Results

Laboratory Reference: 1150421
Hole No.: DS03
Sample Reference: 4
Soil Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 1.90
Depth Base [m]: 2.00
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
22	46	22	24	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	
M	Silt	
L	Low	below 35
I	Medium	35 to 50
H	High	50 to 70
V	Very high	70 to 90
E	Extremely high	exceeding 90
O	Organic	append to classification for organic material (eg CHO)

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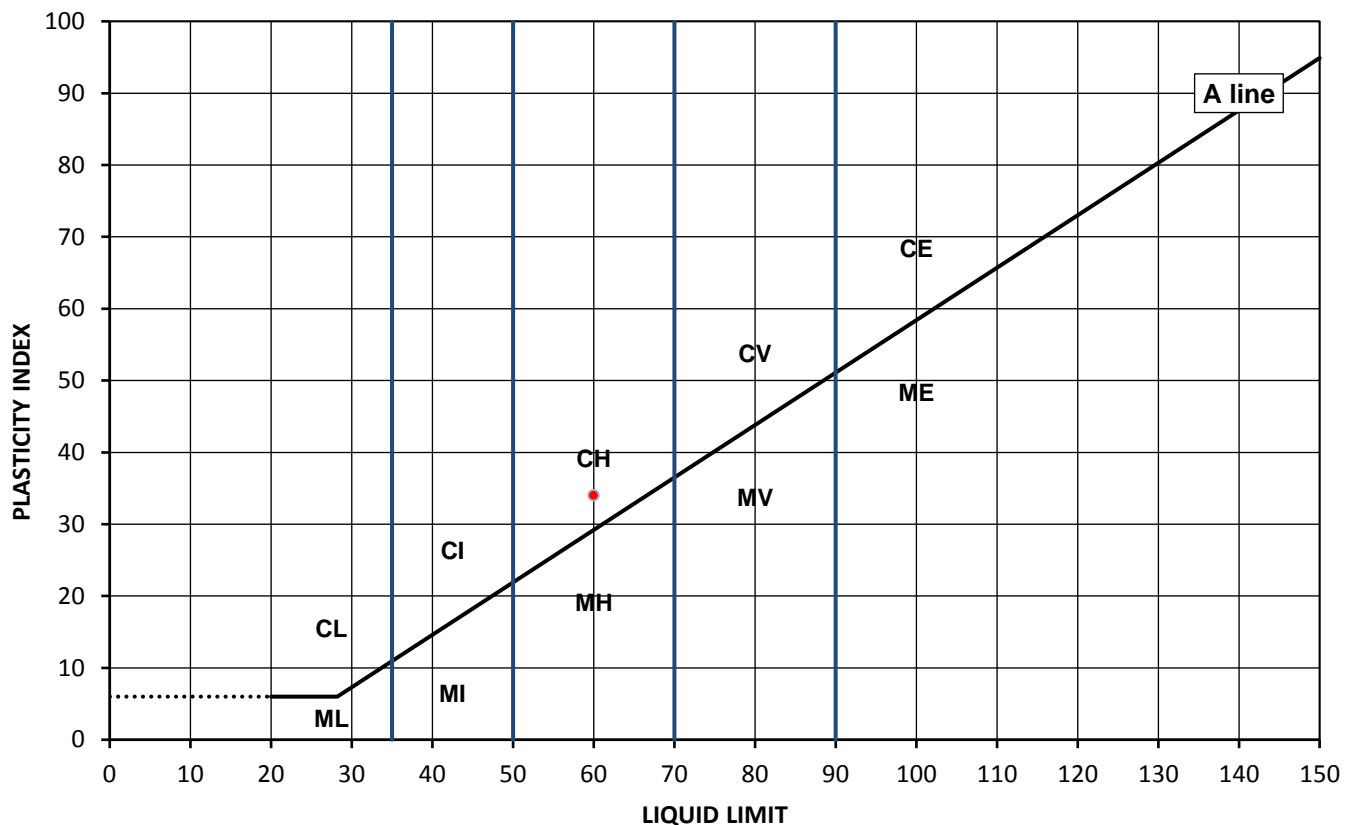
Test Results

Laboratory Reference: 1150422
Hole No.: DS03
Sample Reference: 5
Soil Description: Greyish brown CLAY

Depth Top [m]: 3.80
Depth Base [m]: 3.90
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
24	60	26	34	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	Plasticity	Liquid Limit
M	Silt	L Low	below 35
		I Medium	35 to 50
		H High	50 to 70
		V Very high	70 to 90
		E Extremely high	exceeding 90
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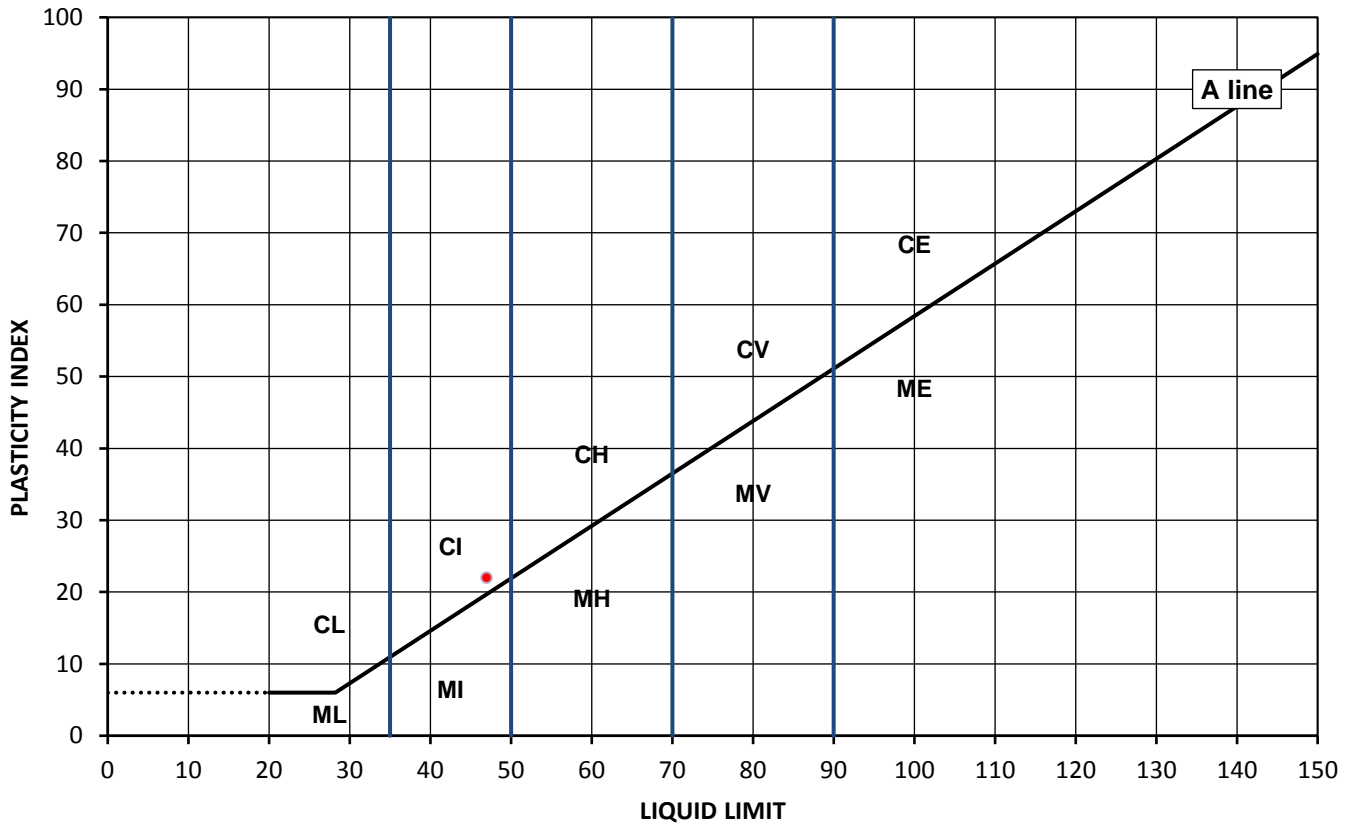
Test Results

Laboratory Reference: 1150423
Hole No.: DS04
Sample Reference: 4
Soil Description: Brownish grey slightly gravelly slightly sandy CLAY

Depth Top [m]: 1.50
Depth Base [m]: 1.60
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
23	47	25	22	99



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	Plasticity	Liquid Limit
M	Silt	L	Low
		I	Medium
		H	High
		V	Very high
		E	Extremely high
			below 35
			35 to 50
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			70 to 90
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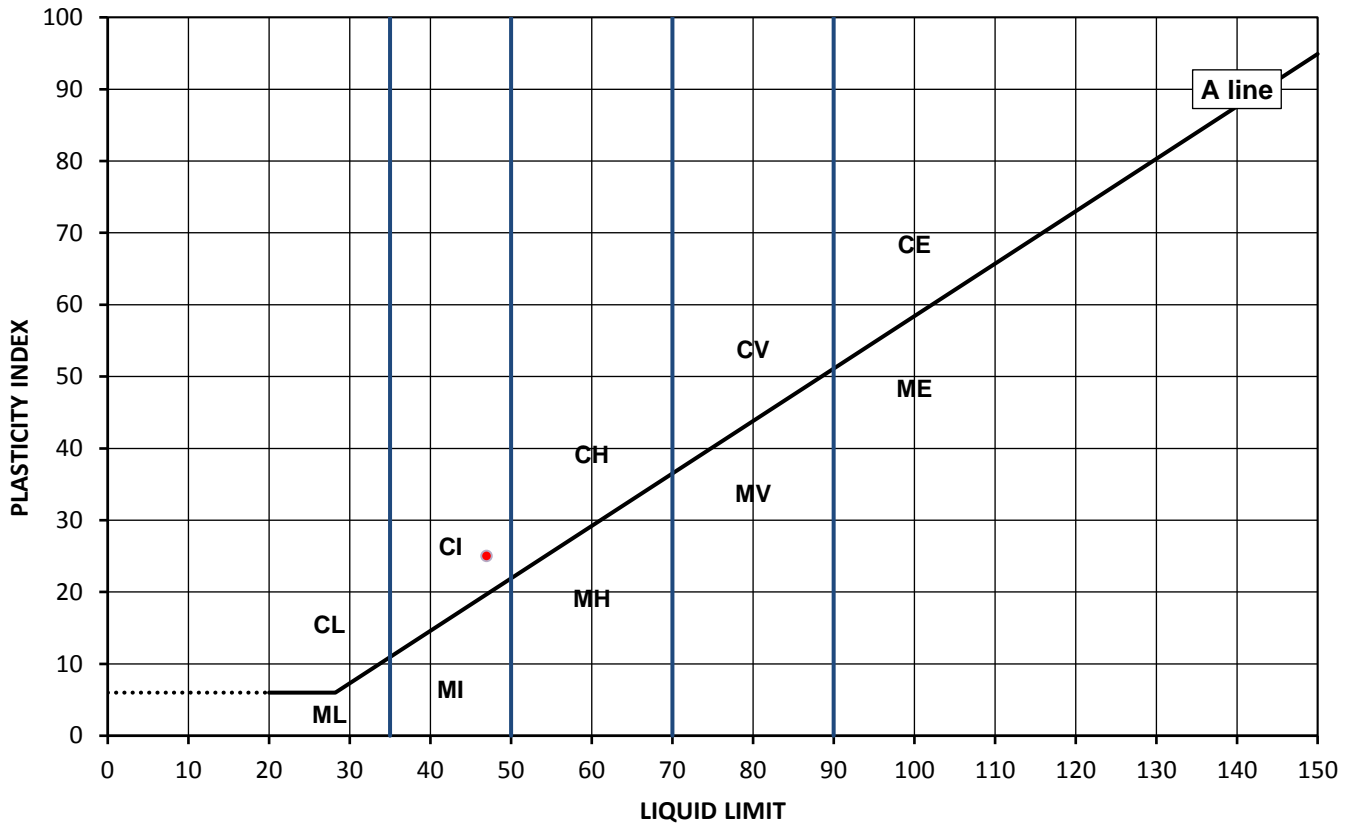
Test Results

Laboratory Reference: 1150424
Hole No.: DS05
Sample Reference: 4
Soil Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 2.90
Depth Base [m]: 3.00
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
25	47	22	25	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	Plasticity	Liquid Limit
M	Silt	L	Low
		I	Medium
		H	High
		V	Very high
		E	Extremely high
			below 35
			35 to 50
			50 to 70
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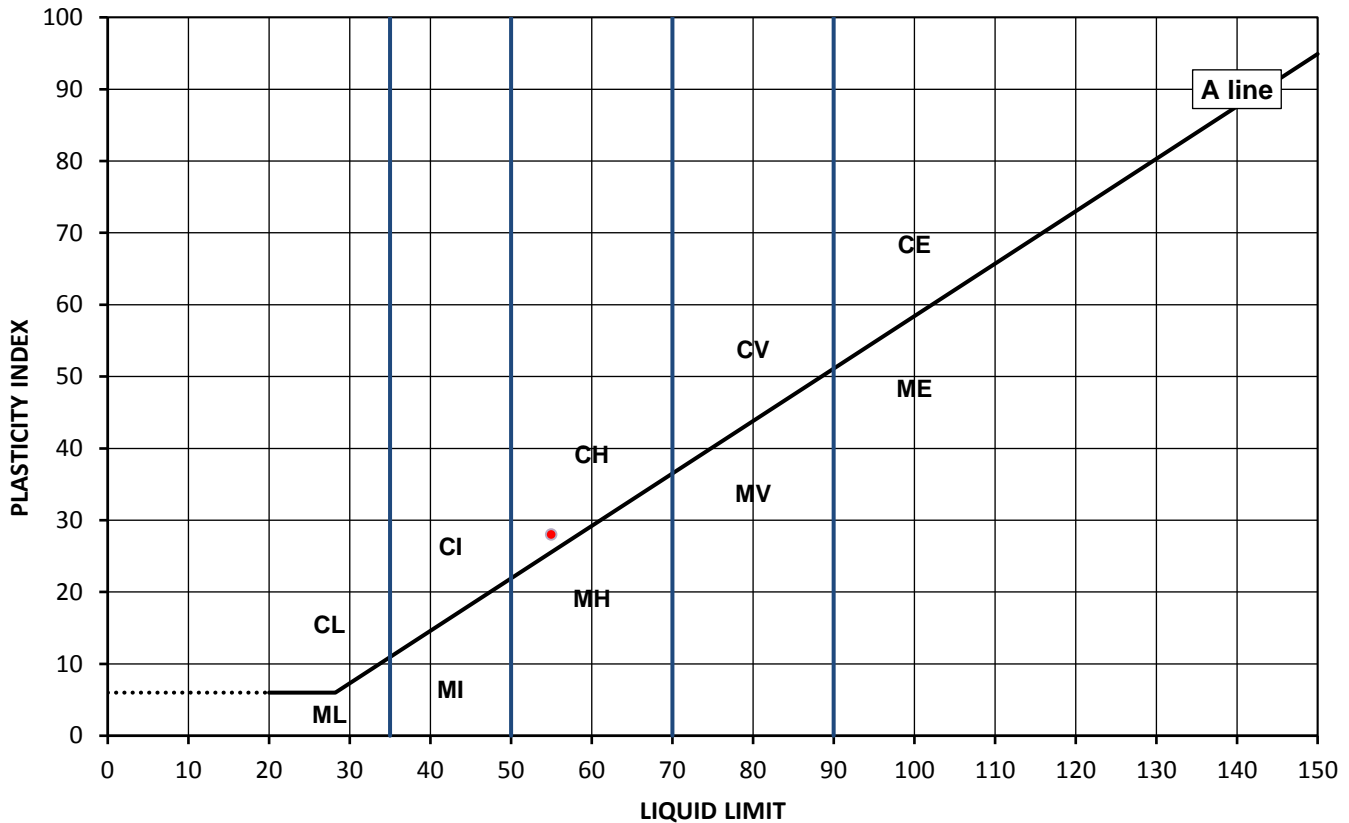
Test Results

Laboratory Reference: 1150425
Hole No.: DS05
Sample Reference: 5
Soil Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 3.60
Depth Base [m]: 3.80
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
27	55	27	28	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	Plasticity	Liquid Limit
M	Silt	L	Low
		I	Medium
		H	High
		V	Very high
		E	Extremely high
			below 35
			35 to 50
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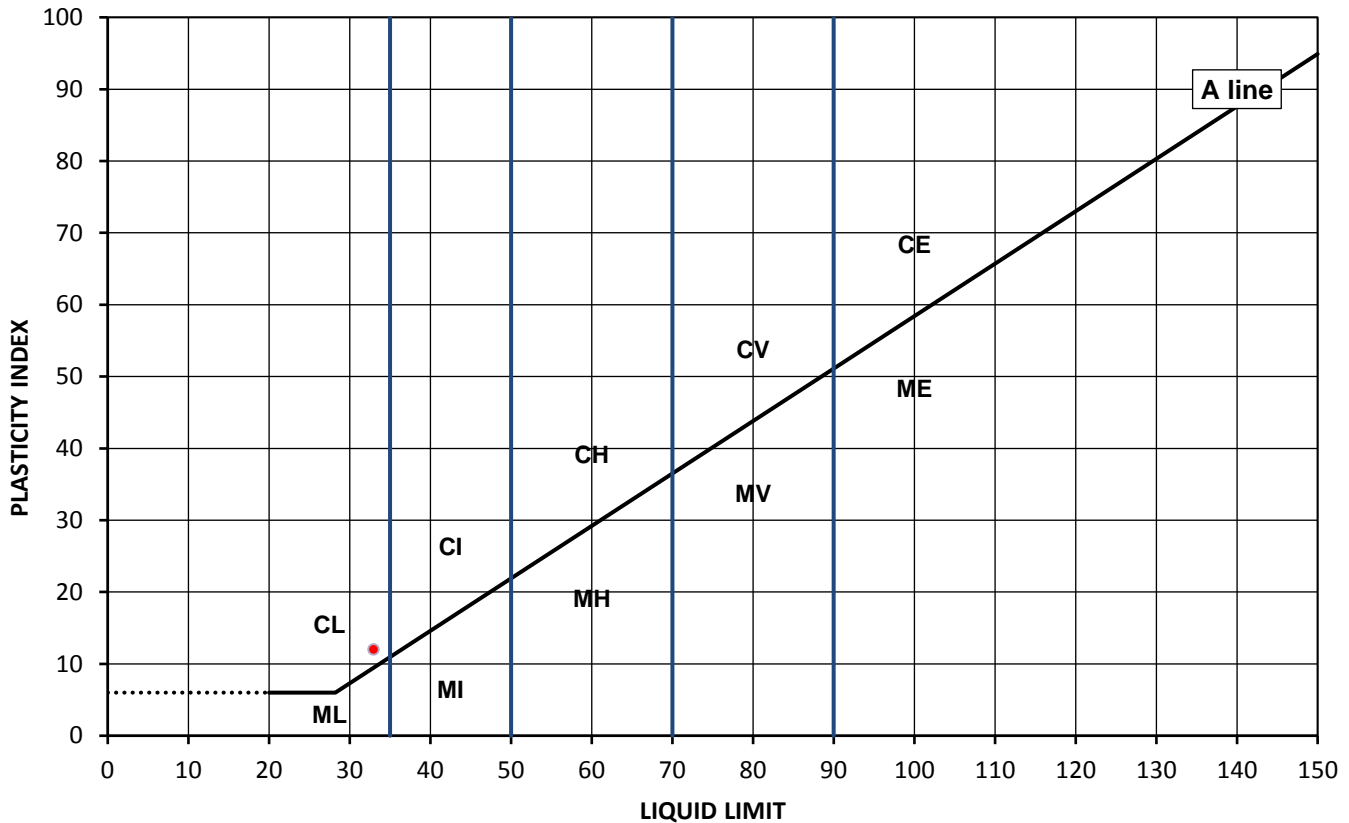
Test Results

Laboratory Reference: 1150426
Hole No.: DS06
Sample Reference: 2
Soil Description: Yellowish brown very gravelly very sandy CLAY

Depth Top [m]: 1.50
Depth Base [m]: 1.60
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
11	33	21	12	45



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	Plasticity	Liquid Limit
M	Silt	L	Low
		I	Medium
		H	High
		V	Very high
		E	Extremely high
			below 35
			35 to 50
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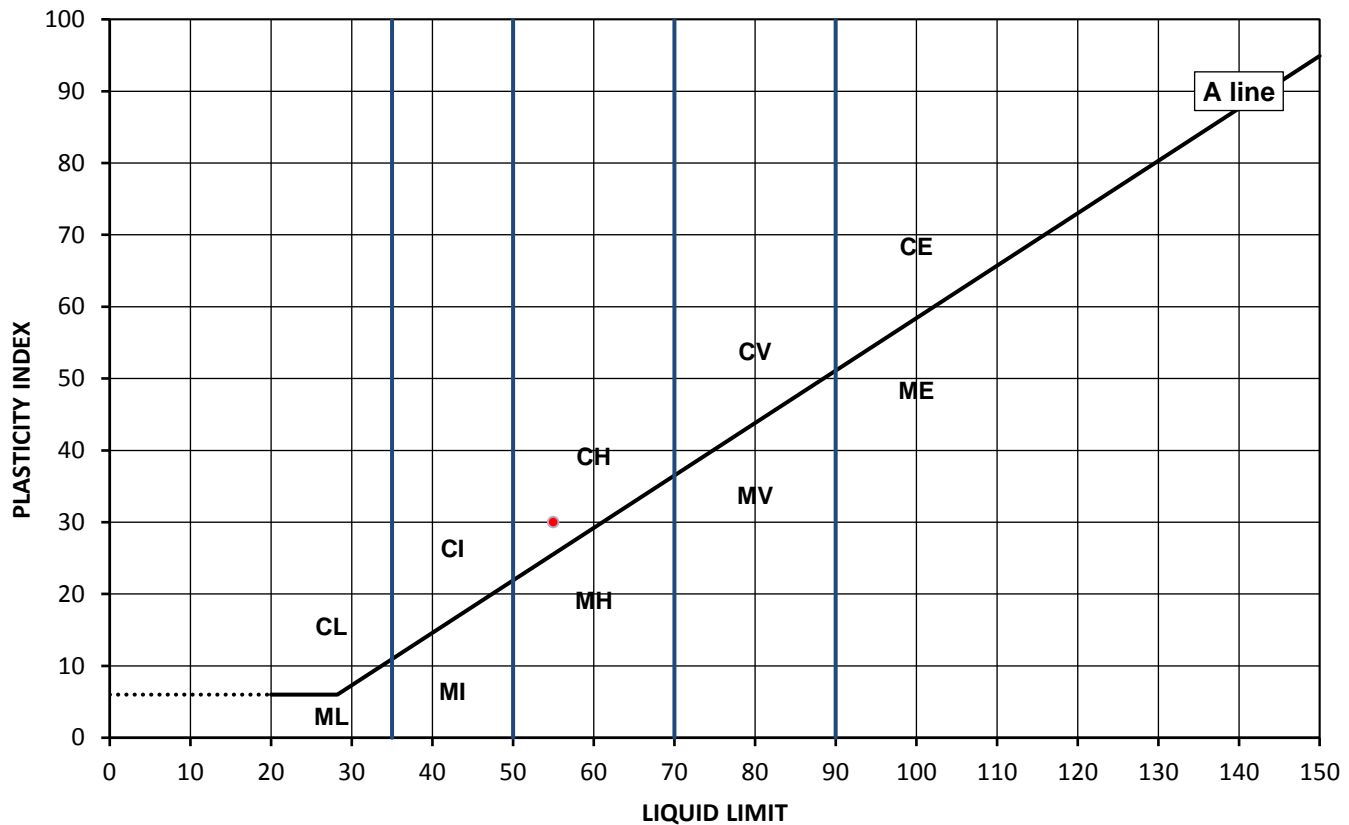
Test Results

Laboratory Reference: 1150427
Hole No.: DS06
Sample Reference: 4
Soil Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 3.50
Depth Base [m]: 3.60
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
26	55	25	30	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	Plasticity	L	Low	Liquid Limit	below 35
M	Silt		I	Medium		35 to 50
			H	High		50 to 70
			V	Very high		70 to 90
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 Site Address: Not Given

SUMMARY REPORT

Summary of Classification Test Results

Tested in Accordance with:

MC by BS 1377-2: 1990: Clause 3.2; Atterberg by BS 1377-2: 1990: Clause 4.3, Clause 4.4 and 5; PD by BS 1377-2: 1990: Clause 8.2

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Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	MC#	Atterberg#				Density		Total Porosity				
		Reference	Depth Top m	Depth Base m	Type				% Passing 425um	LL	PL	PI	bulk Mg/m3	PD Mg/m3					
1150418	DS01	4	1.70	1.80	D	Brownish grey slightly gravelly slightly sandy CLAY	Atterberg 1 Point	23	96	47	24	23							
1150419	DS01	5	2.20	2.30	D	Brown mottled grey slightly sandy CLAY	Atterberg 1 Point	31	100	50	23	27							
1150420	DS02	5	3.00	3.10	D	Brownish grey slightly sandy CLAY	Atterberg 1 Point	27	100	55	28	27							
1150421	DS03	4	1.90	2.00	D	Brownish grey slightly sandy CLAY	Atterberg 1 Point	22	100	46	22	24							
1150422	DS03	5	3.80	3.90	D	Greyish brown CLAY	Atterberg 1 Point	24	100	60	26	34							
1150423	DS04	4	1.50	1.60	D	Brownish grey slightly gravelly slightly sandy CLAY	Atterberg 1 Point	23	99	47	25	22							
1150424	DS05	4	2.90	3.00	D	Brownish grey slightly sandy CLAY	Atterberg 1 Point	25	100	47	22	25							
1150425	DS05	5	3.60	3.80	D	Brownish grey slightly sandy CLAY	Atterberg 1 Point	27	100	55	27	28							
1150426	DS06	2	1.50	1.60	D	Yellowish brown very gravelly very sandy CLAY	Atterberg 1 Point	11	45	33	21	12							
1150427	DS06	4	3.50	3.60	D	Brownish grey slightly sandy CLAY	Atterberg 1 Point	26	100	55	25	30							

Note: # UKAS accredited; NP - Non plastic

Comments:

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