

SOIL ANALYSIS

for Infront Innovation

10 Linda Grove, Waterlooville, Hampshire, PO8 8UX

Client: Infront Innovation
Client Contact: Spencer Caizley
Claim Number: 13EQ602273
Policy Holder: Mrs Lynda Emmott
Report Date: 14 February 2014
Our Ref: C3110S10188

Compiled By:

Checked By:

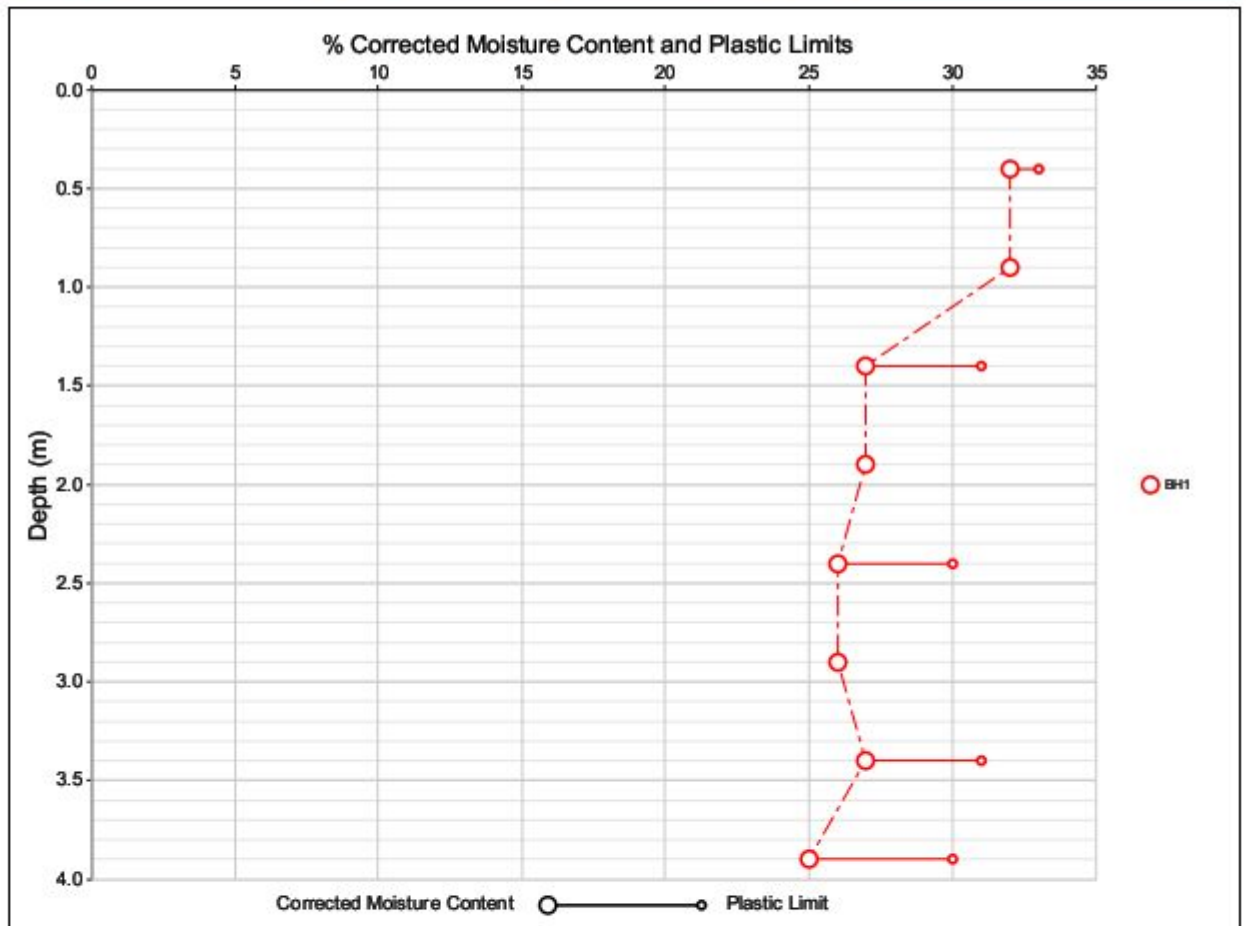


Note

Where appropriate moisture contents have been corrected to demonstrate the equivalent moisture content following the sample being passed through a .425 mm sieve for comparison with the Liquid & Plastic Limit. Where this is not available, uncorrected moisture contents have been used in the graph on the following page.

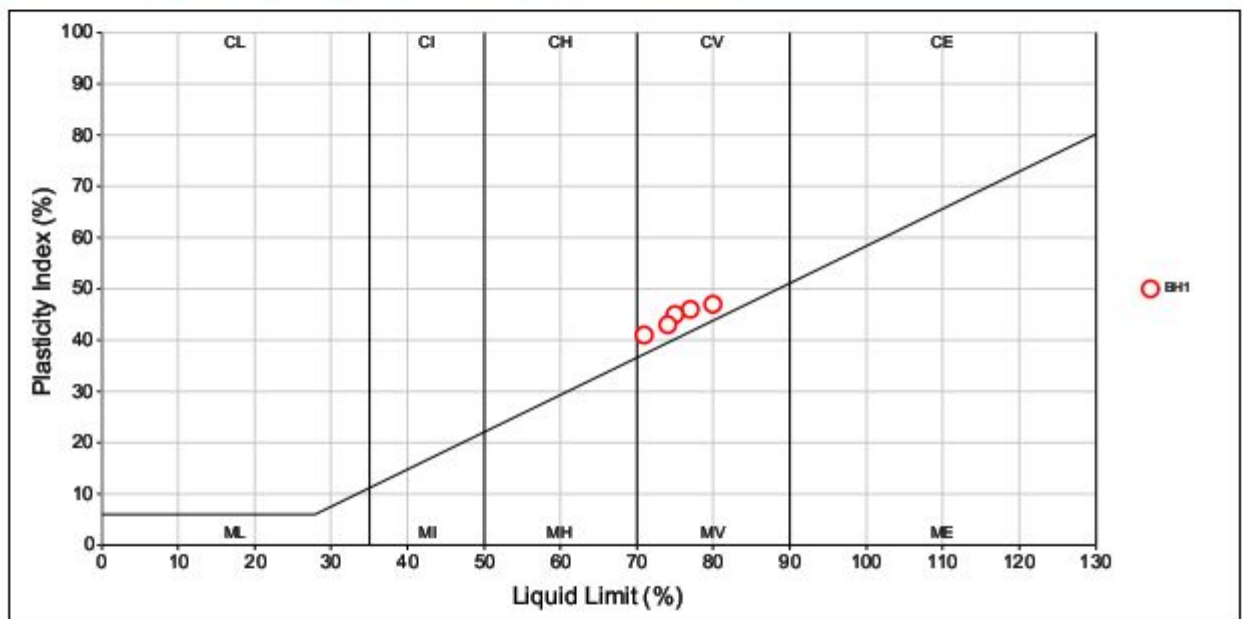
Lab Ref	Depth (m)	MC (%)	Corr MC (%)	LL (%)	PL (%)	PI (%)	% Passing .425mm
Samples from BH1							
001	0.40	32	32	80	33	47	100
002	0.90	32					
003	1.40	27	27	77	31	46	100
004	1.90	27					
005	2.40	26	26	75	30	45	100
006	2.90	26					
007	3.40	27	27	74	31	43	100
008	3.90	25	25	71	30	41	100

Corrected Moisture Content and Plastic Limits Graph



Lab Ref	Depth (m)	Description	BS:5930	NHBC Chapter 4.2
Samples from BH1				
001	0.40	Brown mottled grey CLAY,	CV	High
002	0.90	Brown mottled grey CLAY,		
003	1.40	Brown mottled grey CLAY,	CV	High
004	1.90	Brown mottled grey CLAY,		
005	2.40	Reddish brown mottled grey CLAY.	CV	High
006	2.90	Reddish brown mottled grey CLAY.		
007	3.40	Reddish brown mottled grey CLAY.	CV	High
008	3.90	Reddish brown mottled grey CLAY.	CV	High

Plasticity Chart for Casagrande Classification



References and Interpretation

The following provides a brief interpretation of the test results by comparison of the results to published classifications. The Atterberg Limit test may be used to classify the plasticity of soils; the plasticity classes defined in BS5930:1999 "Code of Practice for Site Investigations" are as follows.

CL (ML)	CLAY and CLAY/SILT of Low plasticity
CI (MI)	CLAY and CLAY/SILT of Intermediate plasticity
CH (MH)	CLAY and CLAY/SILT of High plasticity
CV (MV)	CLAY and CLAY/SILT of Very High plasticity
CE (ME)	CLAY and CLAY/SILT of Extremely High plasticity
O	The letter O is added to prefixes to symbolise a significant proportion of organic matter.
NP	Non-plastic

The Plasticity Index (PI) Result obtained from the Atterberg Limit tests may also be used to classify the potential for volume change of fine soils, in accordance with the National House Building Council's standards - Chapter 4.2 (2003) "Building Near Trees", as summarised below.

Modified PI < 10	Non Classified.
Modified PI = 10 to <20	Low volume change potential.
Modified PI = 20 to <40	Medium volume change potential.
Modified PI = 40 or greater	High volume change potential.

The 2003 edition of Chapter 4.2 also permits use of the Plasticity Index without modification. The classifications for this are grouped by soil type (soils with similar visual soils description and using unmodified Plasticity Indices.

OEDOMETER TESTING

for Infront Innovation

10 Linda Grove, Waterlooville, Hampshire, PO8 8UX

Client: Infront Innovation
Client Contact: Spencer Caizley
Claim Number: 13EQ602273
Policy Holder: Mrs Lynda Emmott
Report Date: 18 February 2014
Our Ref: C3110S10188

Compiled By:

Checked By:



Summary of Oedometer Testing

Lab Ref	Depth (m)	Strain	Dd (mm)	Remarks
Samples from BH1				
001	0.40	0.0374	7.5	
002	0.90	0.0312	7.8	
003	1.40	0.0417	10.4	
004	1.90	0.0442	11.1	
005	2.40	0.0451	11.3	
006	2.90	0.0442	11.0	
007	3.40	0.0417	10.4	
008	3.90	0.0418	10.5	

BH1 Dd Total: 80.0mm

Oedometer Strain

