GEOTECH TESTING PTY LTD ®

ABN 71 076 676 321

DARACON CONTRACTORS PTY LTD

NEW PARK PRECINCT 2
STAGES 1 & 2
MARSDEN PARK

SITE CLASSIFICATIONS

REPORT NO 8599/8-AA 29 MARCH 2018

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GEOTECH TESTING PTY LTD®
ABN 71 076 676 321

Job No: 8599/8
Our Ref: 8599/8-AA
29 March 2018

Daracon Contractors Pty Ltd
184 Adderley Street
AUBURN NSW 2144
Email: SimpsonW@daracon.com.au

Attention: Mr S Wong

Dear Sir

Re: **Newpark Precinct 2, Marsden Park**
Site Classifications Report (Stages 1 & 2)

Please find herewith our site classifications report for the proposed dwellings to be constructed at the above subdivision (Stages 1 & 2). A total of 383 lots are covered in this report (Lot 2001 to 2354 & 2401 to 2429).

This report contains information on surface and sub-surface conditions encountered at the site, together with an assessment of the site classifications in accordance with Australian Standard AS2870-2011 "Residential Slabs & Footings".

If you have any questions, please do not hesitate to contact the undersigned.

Yours faithfully
GEOTECH TESTING PTY LTD

ZIAUDDIN AHMED
Associate Geotechnical Engineer

TABLE OF CONTENTS

page

APPENDICES

1.0 INTRODUCTION

This report provides the results of a geotechnical investigation for the classification of the proposed lots at Newpark Precinct 2 (Stages 1 and 2). A total of 383 lots are covered in this report (Lot 2001 to 2354 in Stage 1 & 2401 to 2429 in Stage 2).

Site classification in accordance with AS2870-2011 is only applicable for design of footing systems for a single dwelling, house, townhouse or similar structure that would be detached or separated by a party wall or common wall including buildings classified as Class 1 and Class 10a in the Building Code of Australia (BCA). AS2870 is not suitable for dwellings situated vertically above or below another dwelling. Therefore, a geotechnical investigation would be required for other dwellings to be classified in accordance with the BCA.

It is understood that the proposed dwellings are of brick veneer construction, and wall loadings are expected to be in the range of 15kN/m to 50kN/m. The maximum working load (safe bearing pressure) would be in the order of 50kPa for ground supported floor slabs and 100kPa for strip and pad footings (AS2870-2011).

2.0 FIELD WORK

Field work for the investigation was carried out between 2nd and 9th March 2018, under the supervision of a Geotechnical Engineer from the company and consisted of excavating one hundred and eighty nine (189) test pits (TP1 to TP189), using an excavator. The test pits were terminated at a depth of 1.5m or at shallow depths due refusal on fill boulders etc. The approximate locations of the test pits are shown on the attached Drawing Nos 8599/9-AA1 and 8599/9-AA2. The brief description of materials encountered in the test pits are provided in the attached Table A.

3.0 SITE CONDITIONS

3.1 Site Surface Conditions

Stage 1 and 2 lots are adjacent to the existing residential development on the eastern side. The site generally slopes towards the south-westerly direction. At the time of field work earthworks were mostly completed, with most lots covered with topsoil and the site possessing little to no vegetation.

3.2 Sub-Surface Conditions

Subsurface conditions encountered in the test pits are detailed in the attached Table A and summarised below.

Topsoil	Silty Clay, low plasticity, brown, traces of root fibres
Fill	Silty Sandy Clay, medium plasticity, pale grey, traces of sandstone Sandy Clay, medium plasticity, brown/red mottled grey Clay, high plasticity, red mottled grey Silty Clay, medium plasticity, brown Shaley Clay, medium plasticity, grey, traces of shale Ripped Shale, grey
Natural	Sandy CLAY, medium plasticity, brown/red mottled grey Silty Sandy CLAY, medium plasticity, brown, traces of ironstone and sandstone Silty CLAY, medium plasticity, brown CLAY, high plasticity, red mottled grey,

3.3 Groundwater Condition

Groundwater was not observed in the test pits during the short time that they remained open. It must be noted that fluctuations in the level of groundwater might occur due to variations in rainfall, temperature, and/or other factors not evident during investigation.

4.0 LABORATORY TESTING

During the course of the investigation, laboratory tests were conducted on a number samples recovered from the naturally occurring clay and fill materials, aimed at determining Shrink/Swell Index and Atterberg limits as per relevant Australian Standards. The detailed test results are included in Appendix C, and are summarised below:

Table 1 : Shrink/Swell Index Test Results

TP	Depth (m)	Material Description	I_{ss} (%/$_p$F)
7	0.3 – 0.5	FILL : Silty Clay, low to medium plasticity, pale brown & grey, trace of fine to medium gravel	1.8
11	0.6 – 0.8	FILL : Sandy Clay, low plasticity, red, brown & grey, trace of fine to medium gravel	1.0
16	0.9 – 1.1	FILL : Silty Clay, low plasticity, red, brown & grey, trace of fine to medium gravel	1.5
19	0.5 – 0.7	FILL : Sandy Clay, medium plasticity, red, brown & grey, trace of fine to medium gravel	2.6
26	0.3 – 0.5	FILL : Sandy Clay, low plasticity, yellow, brown	0.9
37	0.4 – 0.6	FILL : Sandy Clay, low plasticity, red, brown & grey, trace of fine to medium gravel	1.3
43	1.0 – 1.2	FILL : Sandy Clay, high plasticity, red, brown & grey, trace of fine to medium gravel	5.4
48	0.6 – 0.8	FILL : Clay, low plasticity, red, brown	1.5
54	0.5 – 0.7	(CL-CI) Silty CLAY, low to medium plasticity, brown, trace of fine to medium gravel	1.8
61	0.35 – 0.55	(CL) Sandy CLAY, low plasticity, red, brown & grey	1.1
73	0.3 – 0.5	(CH) CLAY, high plasticity, red-brown	3.4
81	0.5 – 0.7	(CI) Sandy CLAY, medium plasticity, red, brown, with grey mottling, trace of fine to medium gravel	2.2
89	0.6 – 0.9	(CH) Sandy CLAY, high plasticity, red-brown with grey mottling, trace of fine to medium gravel	3.5
100	0.4 – 0.6	(CH) CLAY, high plasticity, red-brown	5.3
111	0.8 – 1.0	(CI) Sandy CLAY, medium plasticity, red, brown, with grey mottling, trace of fine to medium gravel	2.1
117	0.5 – 0.7	(CI-CH) Sandy CLAY, medium to high plasticity, red, brown, with grey mottling, trace of fine to medium gravel	2.8
127	0.4 – 0.6	(CH) Sandy CLAY, high plasticity, red-brown with grey mottling, trace of fine to medium gravel	3.2
134	0.85 – 1.05	FILL : Clay, high plasticity, red-brown & grey	3.5
146	0.85 – 1.05	FILL : Clay, low to medium plasticity, red-brown & grey	2.1
152	0.6 – 0.8	FILL : Clay, low to medium plasticity, red-brown & grey	2.0

Table 2 : Atterberg Limits Tests Results

TP	Depth (m)	Material Description	W_L (%)	W_P (%)	I_P (%)	LS (%)
32	0.8 – 1.0	FILL : Silty Sandy Clay, low to medium plasticity, light brown, trace of fine to medium gravel	31	20	11	7.0
106	0.6 – 0.8	(CH) Silty Sandy CLAY, high plasticity, red, brown	57	20	37	12.5
121	0.3 – 0.5	(CI-CH) : Sandy Clay, medium to high plasticity, red-brown with grey mottling, trace of fine to medium gravel	48	24	24	12.5
163	0.3 – 0.45	FILL : Sandy Clay, low to medium plasticity, red-brown, grey, trace of fine to medium gravel	34	18	16	8.5

W_L : Liquid Limit; W_P : Plastic Limit; I_P : Plastic Index; LS : Linear Shrinkage

5.0 DISCUSSION & RECOMMENDATIONS

5.1 Assessment of Fill

Geotech Testing Pty Ltd provided Level 1 supervision and testing during fill placement (Report Nos 8599/3-R1, R2, R3 and R4) at the site. Based on the test pit results and the compaction tests results, the fill material found at the site is classified as "Controlled" fill.

5.2 Site Classifications

Based on the above information site classifications to AS2870-2011 are summarised in Appendix B. It should be noted that lots containing more than 400mm of clay fill (assessed as controlled fill) would originally be classified as Class “P” in accordance with AS2870-2011. However, based on the results of this investigation, which included laboratory testing, the lots are classified as detailed in Appendix B.

It is recommended that footings for the proposed dwellings are founded on the same stratum, below any topsoil, loose or deleterious material, to minimise the potential for differential movement. In the event that bedrock is encountered in any portion of the footing excavations, the remainder of the foundations must be supported on bedrock to ensure even bearing. The classifications presented in Appendix B of this report are applicable to the Lots at the dates of conducting the investigation, being 2 to 9 March 2018 and are made on the following assumptions:

- The design and construction requirements of AS2870 must be followed.
- The recommendations for foundation performance and site maintenance set out in Appendix B of AS2870 must be followed.
- The proposed dwellings must be in accordance with AS2870. A detailed geotechnical investigation will be required for other dwellings to be classified in accordance with the BCA.

It is recommended that house owners are made aware of recommendations in the CSIRO publication, "Guide to Home Owners on Foundation Maintenance and Footing Performance" and AS2870 Appendix H of AS2871-2011.

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APPENDIX A

TABLE A
(Test Pit Summary)

TEST PIT LOCATION PLAN
(Drawing Nos 8599/8-AA1 & AA2)

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
1	0-0.15	0-0.15 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.40		FILL: Gravelly Clay, medium plasticity, grey
	0.40-1.50	1.3-1.5 DSP	FILL: Clay, medium to high plasticity, red
2	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.50	0.20-0.50 DSP	FILL: Gravelly Clay, medium plasticity, grey
	0.50-0.90		FILL: Silty Sand, fine to medium grained, brown, traces of gravel
	0.90-1.50	1.10-1.30 DSP	FILL: Clay, medium plasticity, brown mottled grey, traces of ironstone
3	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.50	0.4-0.6 DSP	FILL: Gravelly Clay, medium plasticity, grey
	0.50-1.50	0.90-1.10 DSP	FILL: Sandy Clay, medium to high plasticity, brown/red mottled grey
4	0-0.15	0-0.15 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.30		FILL: Gravelly Clay, medium plasticity, grey
	0.30-0.65		FILL: Silty Sand, fine to medium grained, pale brown/grey, traces of gravel
	0.65-1.50	1.30-1.50 DSP	FILL: Clay, medium plasticity, brown mottled grey, traces of shale
5	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.75	0.20-0.40 DSP	FILL: Silty Sand, fine to medium grained, pale brown/grey, traces of gravel
	0.75-1.50	1.10-1.30 DSP	FILL: Sandy Clay, medium to high plasticity, brown/red mottled grey, traces of shale and ironstone

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
6	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.70	0.40-0.60 DSP	FILL: Silty Clay, medium plasticity, pale brown/grey, traces of gravel
	0.70-1.50	0.90-1.10	FILL: Sandy Clay, medium to high plasticity, brown/red mottled grey, traces of shale and sandstone
7	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.60	0.3-0.5 U50	FILL: Silty Clay, low to medium plasticity, pale brown/grey, traces of gravel
	0.60-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone
8	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.95	0.20-0.40 DSP	FILL: Silty sandy Clay, medium plasticity, pale brown/grey, traces of ironstone gravel
	0.95-1.50	1.10-1.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone
9	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.0	0.40-0.60 DSP	FILL: Silty sandy Clay, medium plasticity, pale brown/grey, traces of ironstone gravel
	1.0-1.50	1.0-1.20	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
10	0-0.15	0-0.15 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.20		FILL: Silty Clay, medium plasticity, light brown, traces of gravel
	1.20-1.50	1.30-1.50	FILL: Sandy CLAY, medium plasticity, brown/red mottled grey, traces of shale and ironstone
11	0-0.45	0.20-0.40 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of gravel
	0.60-1.50	0.60-0.80 U50	FILL: Sandy CLAY, low plasticity, brown/red mottled grey, traces of shale and ironstone
		1.10-1.30 DSP	
12	0-0.60	0.40-0.60 DSP	FILL: Silty Clay, medium plasticity, light brown, some gravel, traces of shale M<PL
	0.60-0.90		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.90-1.50	0.90-1.10 DSP	FILL: Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone
13	0-0.65	0-0.20	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	0.65-1.50	1.30-1.50	FILL: Sandy CLAY, medium plasticity, brown/red mottled grey, traces of shale and ironstone

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
14	0-0.50	0.20-0.40 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	0.50-1.50	1.10-1.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone
15	0-0.50	0.40-0.50 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	0.50-0.90		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.90-1.50	0.90-1.10 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone gravel
16	0-0.30	0-0.20 DSP	FILL: Silty Clay, low plasticity, light brown, traces of shale and gravel
	0.30-0.90		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.90-1.50	0.90-1.10 U50	FILL: Sandy Clay, low plasticity, brown/red mottled grey, traces of shale and ironstone gravel
		1.30-1.50 DSP	
17	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.50		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.50-1.20	0.50-0.70 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	1.2-1.5	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone gravel

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
18	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.0	0.40-0.60 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	1.0-1.50	1.0-1.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone gravel
19	0-0.15	0-0.15 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.40	0.50-0.70 U50	FILL: Silty Clay, medium plasticity, pale brown/grey, traces of gravel
	0.40-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale, ironstone and sandstone gravel
20	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.70	0.20-0.40 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	0.70-1.50	1.10-1.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone gravel
21	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.75	0.40-0.60 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	0.75-1.50	0.90-1.10 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone gravel

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
22	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.60		FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	0.60-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone gravel
23	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.60	0.40-0.60 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	0.60-0.95		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.95-1.50	1.10-1.30	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone gravel
24	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.80	0.40-0.60 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	0.80-1.50	0.90-1.10 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale and ironstone gravel

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
25	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.55		FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	0.55-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale, ironstone gravel and sandstone
26	0-0.25		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.25-0.85	0.25-0.45 DSP	FILL: Silty Sandy Clay, low plasticity, brown/yellow
		0.30-0.50 U50	
	0.85-1.50	1.10-1.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale
27	0-0.25		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.25-0.65	0.40-0.60 DSP	FILL: Silty Sandy Clay, medium plasticity, brown/yellow
	0.65-1.50	0.90-1.10 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
28	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.45		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.45-1.50	1.30-1.50 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
29	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.65	0.20-0.40 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and gravel
	0.65-1.50	1.10-1.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey
30	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.60	0.40-0.60 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and ironstone gravel
	0.60-1.50	0.90-1.10 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey
31	0-0.25	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.25-0.90		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.90-1.50	1.30-1.50 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale and ironstone gravel

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
32	0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.70	0.20-0.40 DSP	FILL: Silty Sandy Clay, medium plasticity, pale grey, traces of sandstone
	0.70-1.50	0.8-1.0 U50	FILL: Silty Clay, medium plasticity, light brown, traces of shale
		1.1-1.3 DSP	
33	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.90	0.40-0.60 DSP	FILL: Silty Clay, medium plasticity, light brown, traces of shale
	0.90-1.50	0.90-1.10	FILL: Sandy Clay, medium plasticity, brown/red mottled grey
34	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.65		FILL: Silty Clay, medium plasticity, light brown, traces of shale
	0.65-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of shale
35	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
		0.9-1.10 DSP	

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
36	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey
		0.90-1.10 DSP	
37	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.15	0.40-0.60 U50	FILL: Sandy Clay, low plasticity, brown/red mottled grey, traces of ironstone gravel
	1.15-1.50	1.30-1.50 DSP	FILL: Silty Clay, medium plasticity, dark brown
38	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.70	0.25-0.45 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey
	0.70-1.50	1.10-1.30 DSP	FILL: Silty Clay, medium plasticity, dark brown
39	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.30	0.40-0.60 DSP	FILL: Silty Sandy Clay, medium plasticity, light brown
	1.30-1.50	0.90-1.10 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
40	0-0.15	0-0.15 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.75		FILL: Silty Clay, medium plasticity, brown
	0.75-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, red/orange mottled grey, traces of ironstone
41	0-0.10	0.20-0.40 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.50	1.10-1.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
42	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.20		FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	1.20-1.50		FILL: Clay, high plasticity, red mottled grey
43	0-0.10	0.10-0.30 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.50	1.0-1.20 U50 1.30-1.50 DSP	FILL: Sandy Clay, high plasticity, brown/red mottled grey, traces of ironstone

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
44	0-0.10	0.20-0.40 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.50	1.10-1.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
45	0-0.10	0.40-0.60 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.70	0.90-1.10 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.70-1.50		FILL: Silty Sandy Clay, medium plasticity, brown-light brown
46	0-0.10	0.15-0.30 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.85	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey
	0.85-1.50		FILL: Clay, high plasticity, red
47	0-0.15	0.20-0.40 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.90	1.10-1.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey
	0.90-1.50		FILL: Silty Sandy Clay, medium plasticity, brown/orange

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
48	0-0.20	0.40-0.60 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.90	0.6-0.8 U50	FILL: Clay, low plasticity, red-brown
		0.9-1.1 DSP	
	0.90-1.50		FILL: Silty Clay, medium plasticity, brown/grey, traces of gravel
		0-0.20 DSP	
49	0-0.20	1.30-1.50 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50		FILL: CLAY, high plasticity, brown/red
50	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.05		FILL: Sandy Clay, medium plasticity, brown/red mottled grey
	1.05-1.50		FILL: Shaley Clay, medium plasticity, grey, traces of shale
51	0-0.15	0.40-0.60 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.0		FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	1.0-1.1		SANDSTONE, brown/grey, very low strength, extremely weathered, iron stained
	1.1		Refusal at 1.1m

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
52	0-0.15	0-0.15 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.40	1.20-1.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M<PL
	1.40-1.50		SANDSTONE, red/pale grey, very low strength, extremely weathered, iron stained, clay inseams
53	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of sandstone and ironstone, M<PL
		1.10-1.30 DSP	
54	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.40-0.60 DSP	(CI) Silty CLAY, low to medium plasticity, brown, traces of ironstone and sandstone, M<PL
		0.50-0.70 U50	
		0.90-1.10 DSP	
55	0-0.90	0-0.20 DSP	(CI) Silty CLAY, medium plasticity, brown/red, M<PL
	0.90-1.50	1.30-1.50 DSP	(CH) CLAY, high plasticity, red mottled grey, M=PL

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
56	0-0.55	0.20-0.40 DSP	(CH) CLAY, high plasticity, red mottled grey, M<PL
	0.55-1.50	1.10-1.30 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
57	0-0.60	0.40-0.60 DSP	(CI) Silty CLAY, medium plasticity, brown/red, M<PL
	0.60-1.50	0.90-1.10 DSP	(CH) CLAY, high plasticity, red mottled grey, traces of ironstone, M=PL
58	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	1.3-1.50 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
59	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.65	0.30-0.50 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone, M<PL
	0.65		Refusal at 0.65m
60	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.0	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone, M<PL
	1.0		Refusal at 1.0m

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
61	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.25	0.35-0.55 U50	(CI) Sandy CLAY, low plasticity, brown/red mottled grey, M<PL
		0.40-0.60 DSP	
	1.25-1.50	1.25-1.45 DSP	(CI) Silty sandy CLAY, medium plasticity, brown/orange, M=PL
62	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	1.30-1.50 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M<PL
63	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.85	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M<PL
	0.85		Refusal at 0.85m
64	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.40	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M=PL
	1.40	0.90-1.10 DSP	Refusal at 1.4m

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
65	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	1.30-1.50 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone, M<PL
66	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.50	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone, M<PL
		1.10-1.30 DSP	
67	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone, M<PL
		0.6-0.80 U50	
		0.90-1.10 DSP	
68	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	1.30-1.50 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M<PL
69	0-0.20	0.20-0.40 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	1.10-1.30 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone, M<PL

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
70	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.70	0.4-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M<PL
	0.70		Refusal at 0.7m
71	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.15	0.80-1.0 U50	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M<PL
	1.15		Refusal at 1.15m
72	0-0.15	0.20-0.40 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.50	1.10-1.30 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M<PL
73	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.50	0.20-0.40 DSP 0.30-0.50 U50 1.10-1.30 DSP	(CH) CLAY, high plasticity, red, M=PL

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
74	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.60	0.30-0.50 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M<PL
	0.60		Refusal at 0.60m
75	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	1.30-1.50 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M<PL
76	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.90	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M<PL
	0.90		Refusal at 0.90m
77	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.60	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M<PL
	0.60		Refusal at 0.60m

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
78	0-0.15	0-0.15 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres. M<PL
	0.15-1.50	1.30-1.50 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M<PL
79	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.10	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M<PL
	1.10-1.50	1.10-1.30 DSP	(CI) Silty sandy CLAY, medium plasticity, light brown, M<PL
80	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.50	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M<PL
		0.90-1.10 DSP	
81	0-0.15	0-0.15 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.50	0.50-0.70 U50	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
		1.30-1.50 DSP	

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
82	0-0.15	0.20-0.40 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-1.50	1.10-1.30 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone, M=PL
83	0-0.15		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.15-0.75	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M<PL
	0.75		Refusal at 0.75m
84	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.90	0.50-0.70 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M<PL
	0.90		Refusal at 0.90m
85	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.60	0.10-0.30 DSP	(CH) CLAY, high plasticity, red, M=PL
	0.6-1.1		(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M<PL
	1.1		Refusal at 1.1m

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
86	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.20	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M=PL
	1.20	0.9-1.10 DSP	Refusal at 1.20m
87	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.50	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone M=PL
		0.90-1.10 DSP	
88	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.70	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M=PL
	0.70		Refusal at 0.70m
89	0-0.10	0-0.10 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.50	0.60-0.90 U50	(CI) Sandy CLAY, high plasticity, brown/red mottled grey, traces of ironstone and sandstone, M=PL
		1.30-1.50 DSP	

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
90	0-0.10	0.20-0.40 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.50	1.10-1.30 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
91	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.70	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone, M=PL
	0.70-1.50	0.90-1.10 DSP	(CH) CLAY, high plasticity, red mottled grey, M=PL
92	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.65	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M=PL
	0.65		Refusal at 0.60m
93	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.55	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
	0.55		Refusal at 0.55m

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
94	0-0.10	0-0.10 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.95		(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M=PL
	0.95-1.5	1.30-1.50 DSP	(CI) Silty sandy CLAY, medium plasticity, brown/light brown, M=PL
95	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.55	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M<PL
	0.55-1.5	1.10-1.30 DSP	(CH) CLAY, high plasticity, red, M=PL
96	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.80	0.40-0.60 DSP	(CH) CLAY, high plasticity, red, M=PL
	0.80-1.5	0.90-1.10 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M=PL
97	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.40		(CH) CLAY, high plasticity, red, M=PL
	0.40-0.95	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M=PL
	0.95		Refusal at 0.95m

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
98	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.0	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone M<PL
	1.0		Refusal at 1.0m
99	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.90	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone M<PL
	0.90		Refusal at 0.90m
100	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.40	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, M<PL
	0.40-1.5	0.40-0.60 U50	(CH) CLAY, high plasticity, red, M=PL
		1.30-1.50 DSP	
101	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.95	0.40-0.60 U50	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone M=PL
	0.95		Refusal at 0.95m

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
102	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.95	0.50-0.70 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, some ironstone, traces of sandstone, M=PL
	0.85		Refusal at 0.85m
103	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.70	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of sandstone and ironstone, M=PL
	0.70		Refusal at 0.70m
104	0-0.10	0-0.10 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.70	1.30-1.50 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of sandstone and ironstone, M=PL
105	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.25	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
	1.25	0.9-1.10 DSP	Refusal at 1.25m

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
106	0-0.10	0-0.10 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.65	0.6-0.80 U50	(CI) Silty sandy CLAY, medium plasticity, brown/red, , M<PL
	0.65-1.5	1.30-1.50 DSP	(CH) CLAY, high plasticity, red, M=PL
107	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.65	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of sandstone and ironstone, M=PL
	0.65-1.5	1.10-1.30 DSP	(CH) CLAY, high plasticity, red, M=PL
108	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.50	0.40-0.60 DSP 0.90-1.10 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
109	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-0.45		(CH) CLAY, high plasticity, red, M=PL
	0.45-1.5		(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of sandstone and ironstone, M=PL

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
110	0-0.10		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.10-1.50	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, some ironstone, M=PL
		1.10-1.30 DSP	
111	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
		0.8-1.0 U50	
		0.90-1.10 DSP	
112	0-0.25		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.25-1.50	0.25-0.45 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
		1.10-1.30 DSP	
113	0-0.25		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.25-1.50	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
		0.90-1.10 DSP	

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
114	0-0.25		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.25-1.10	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone, M=PL
	1.10		Refusal at 1.10m
115	0-0.25		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.25-1.30	0.25-0.45 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
	1.30	0.9-1.10 DSP	Refusal at 1.30m
116	0-0.25		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.25-1.50	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
		0.90-1.10 DSP	
117	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.50-0.70 U50	(CI) Sandy CLAY, medium to high plasticity, brown/red mottled grey, traces of ironstone, M=PL
		1.30-1.50 DSP	

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
118	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
		1.10-1.30 DSP	
119	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
		0.90-1.10 DSP	
120	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.90		(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
	0.90		Refusal at 0.9m
121	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.30-0.50 U50	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
		1.30-1.50 DSP	

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
122	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.50	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone gravels, M=PL
		1.10-1.30 DSP	
123	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.15	0.40-0.60 DSP	(CH) CLAY, high plasticity, red, M=PL
	1.15-1.50	0.90-1.10 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of ironstone, M=PL
124	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.85		(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of sandstone gravels, M=PL
	0.85-1.50	1.30-1.50 DSP	(CH) CLAY, high plasticity, red, M=PL
125	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.10	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, some ironstone, traces of sandstone gravels, M=PL
	1.10-1.50	1.10-1.30 DSP	(CH) CLAY, high plasticity, grey mottled red, M=PL

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
126	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.25	0.40-0.60 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, some ironstone, traces of sandstone gravels, M=PL
	1.25-1.50	0.90-1.10 DSP	(CH) CLAY, high plasticity, grey mottled red, M=PL
127	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.25	0.40-0.60 U50	(CI) Sandy CLAY, high plasticity, brown/red mottled grey, traces of sandstone and ironstone, M=PL
		1.30-1.50 DSP	
128	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.20	0.20-0.40 DSP	(CI) Sandy CLAY, medium plasticity, brown/red mottled grey, traces of sandstone and ironstone gravels, M=PL
	1.20-1.50	1.0-1.20 DSP	(CH) CLAY, high plasticity, grey mottled red, M=PL
129	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.20	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	1.20-1.50	0.90-1.10 DSP	FILL: Silty Clay, medium plasticity, brown/red

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
130	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.15		FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	1.15-1.50	1.30-1.50 DSP	FILL: (CI) CLAY, medium plasticity, brown/red
131	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.05	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone
	1.05-1.50	1.10-1.30 DSP	FILL: (CI) CLAY, medium plasticity, brown/red
132	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.10	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone
	1.10-1.50	0.90-1.10 DSP	FILL: Clay, high plasticity, red mottled grey
133	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.15		FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	1.15-1.50	1.30-1.50 DSP	FILL: (CI) Clay, medium plasticity, brown/red, traces of gravel

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
134	0-0.20		TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-1.15	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	1.15-1.50	0.85-1.05 U50	FILL: Clay, high plasticity, red mottled grey
		1.10-1.30 DSP	
135	0-0.80	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.80-1.50	0.90-1.10 DSP	FILL: Silty Clay, medium plasticity, brown
136	0-0.75	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.75-1.50	1.30-1.50 DSP	FILL: (CI) CLAY, medium plasticity, brown/red, traces of gravel
137	0-0.55	0.20-0.40 DSP	FILL: Clay, high plasticity, red, traces of gravel M=PL
	0.55-1.50		FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
		1.10-1.30 DSP	

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
138	0-0.75	0.40-0.60 DSP	FILL: Clay, high plasticity, red, traces of gravel M<PL
	0.75-1.50	0.90-1.10 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
139	0-0.80	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.80-1.50	1.30-1.50 DSP	FILL: (CI) CLAY, medium plasticity, brown/red, traces of gravel
140	0-0.95	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.95-1.50	1.10-1.30 DSP	FILL: (CI) CLAY, medium plasticity, brown/red, traces of gravel
141	0-0.85	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.85-1.50	0.90-1.10 DSP	FILL: (CI) CLAY, medium plasticity, brown/red, traces of gravel

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
142	0-0.80	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.80-1.50	1.30-1.50 DSP	FILL: Clay, high plasticity, red mottled grey
143	0-0.20	0-0.20 DSP	TOPSOIL: Silty Clay, low plasticity, brown, traces of root fibres
	0.20-0.70		FILL: Silty Sandy Clay, medium plasticity, light brown, traces of ironstone
	0.70-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/dark brown, traces of gravel, roots and root fibres
144	0-0.75	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.75-1.50	1.10-1.30 DSP	FILL: Clay, high plasticity, red
145	0-1.20	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	1.20-1.50	0.90-1.10 DSP	FILL: Clay, high plasticity, brown mottled grey
146	0-0.80	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.80-1.50	0.85-1.05 U50	FILL: Clay, low to med plasticity, red mottled grey
		1.30-1.50 DSP	

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
147	0-0.90	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.90-1.50	1.10-1.30 DSP	FILL: Clay, high plasticity, brown mottled grey
148	0-0.65	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.65-1.50	0.90-1.10 DSP	FILL: Clay, high plasticity, brown mottled grey
149	0-0.60	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.60-1.50	1.30-1.50 DSP	FILL: Clay, high plasticity, red mottled grey
150	0-0.65	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.65-1.50	1.10-1.30 DSP	FILL: Clay, high plasticity, brown mottled grey
151	0-0.55	0.30-0.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.55-1.50	0.90-1.10 DSP	FILL: Clay, high plasticity, red mottled grey

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
152	0-0.55	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.55-1.50	0.60-0.80 U50	FILL: Clay, low to medium plasticity, red mottled grey
		1.30-1.50 DSP	
153	0-0.60	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.60-1.50	1.10-1.30 DSP	FILL: Clay, high plasticity, red mottled grey
154	0-0.75	0.30-0.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
	0.75-1.50	0.90-1.10 DSP	FILL: Clay, high plasticity, red mottled grey
155	0-1.50	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, sandstone, gravel and root fibres
		1.30-1.50 DSP	
156	0-1.50	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, sandstone and gravel
		1.10-1.30 DSP	

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
157	0-1.50	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, sandstone, gravel, roots and root fibres and concrete fragments
		0.90-1.10 DSP	
158	0-1.50	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, sandstone oversize, gravel, roots and root fibres
		1.30-1.50 DSP	
159	0-1.50	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, sandstone, gravel, roots and root fibres
		0.40-0.60 U50	
		1.10-1.30 DSP	
160	0-0.60	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone and shale
	0.60-0.90		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.90-1.50	0.90-1.10 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone
161	0-0.60	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone and shale
	0.60-0.90		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.90-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
162	0-0.30	0.20-0.30 DSP	FILL: Silty Clay, medium plasticity, brown
	0.30-0.70		FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone
	0.70-1.0		FILL: Ripped Shale, grey, very low strength, extremely weathered
	1.0-1.50	1.0-1.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone
163	0-0.45	0-0.20 DSP	FILL: Silty Clay, medium plasticity, brown
	0.45-0.70	0.3-0.45 U50	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, shale and sandstone
	0.70-1.0		FILL: Ripped Shale, grey, very low strength, extremely weathered
	1.0-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, shale and sandstone
164	0-0.40	0.10-0.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, shale and sandstone
	0.40-0.70		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.70-1.0	0.70-0.90 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, shale and sandstone
	1.0-1.50		FILL: Ripped Shale, grey, very low strength, extremely weathered

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
165	0-0.70		FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone
	0.70-0.90		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.90-1.5		FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone and sandstone
166	0-0.70		FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, shale and sandstone
	0.70-1.25		FILL: Silty Sandy Clay, medium plasticity, light brown mottled grey, traces of sandstone
	1.25-1.5		FILL: Clay, high plasticity, red mottled grey
167	0-1.50	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone gravel, shale and sandstone
		1.30-1.50 DSP	
168	0-0.65	0.20-0.40 DSP	FILL: Silty Clay, medium plasticity, brown, traces of gravel
	0.65-1.50	1.10-1.30 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
169	0-1.50	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, gravel and sandstone
		0.60-0.80 U50	
		0.90-1.10 DSP	
170	0-1.50	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, gravel and sandstone
		1.30-1.50 DSP	
171	0-1.50	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone, gravel and shale
		1.10-1.30 DSP	
172	0-1.50	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of gravel
		0.90-1.10 DSP	
173	0-0.30	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of gravel
	0.30-0.60		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.60-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of ironstone

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
174	0-1.50	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of ironstone and gravel
		1.10-1.30 DSP	
175	0-1.50	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some ironstone and shale, traces of gravel
		0.70-0.90 U50	
		0.90-1.10 DSP	
176	0-0.50	0-0.20 DSP	FILL: Clay, high plasticity, red mottled grey
	0.50-0.80		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.80-1.10	0.80-1.0 DSP	FILL: (SM) silty SAND, medium to coarse grained, brown/yellow, traces of gravel
	1.10-1.50		FILL: Ripped Shale, grey, very low strength, extremely weathered
177	0-1.50	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of sandstone and gravel
		1.10-1.30 DSP	
178	0-1.50	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of sandstone and gravel
		0.90-1.10 DSP	

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
179	0-1.50	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some sandstone and shale, traces of gravel
		1.30-1.50 DSP	
180	0-0.80		FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of gravel, shale and sandstone
	0.80-1.10		FILL: Ripped Shale, grey, very low strength, extremely weathered
	1.10-1.50	1.10-1.30	FILL: Clay, high plasticity, red mottled grey
181	0-0.70	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of gravel and ironstone
	0.70-0.90		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.90-1.50	0.90-1.10 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of gravel and ironstone. Seepage encountered, M>PL
182	0-0.75	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of gravel and sandstone
		0.30-0.50 U50	
	0.75-0.95		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.95-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of gravel and sandstone

TABLE A

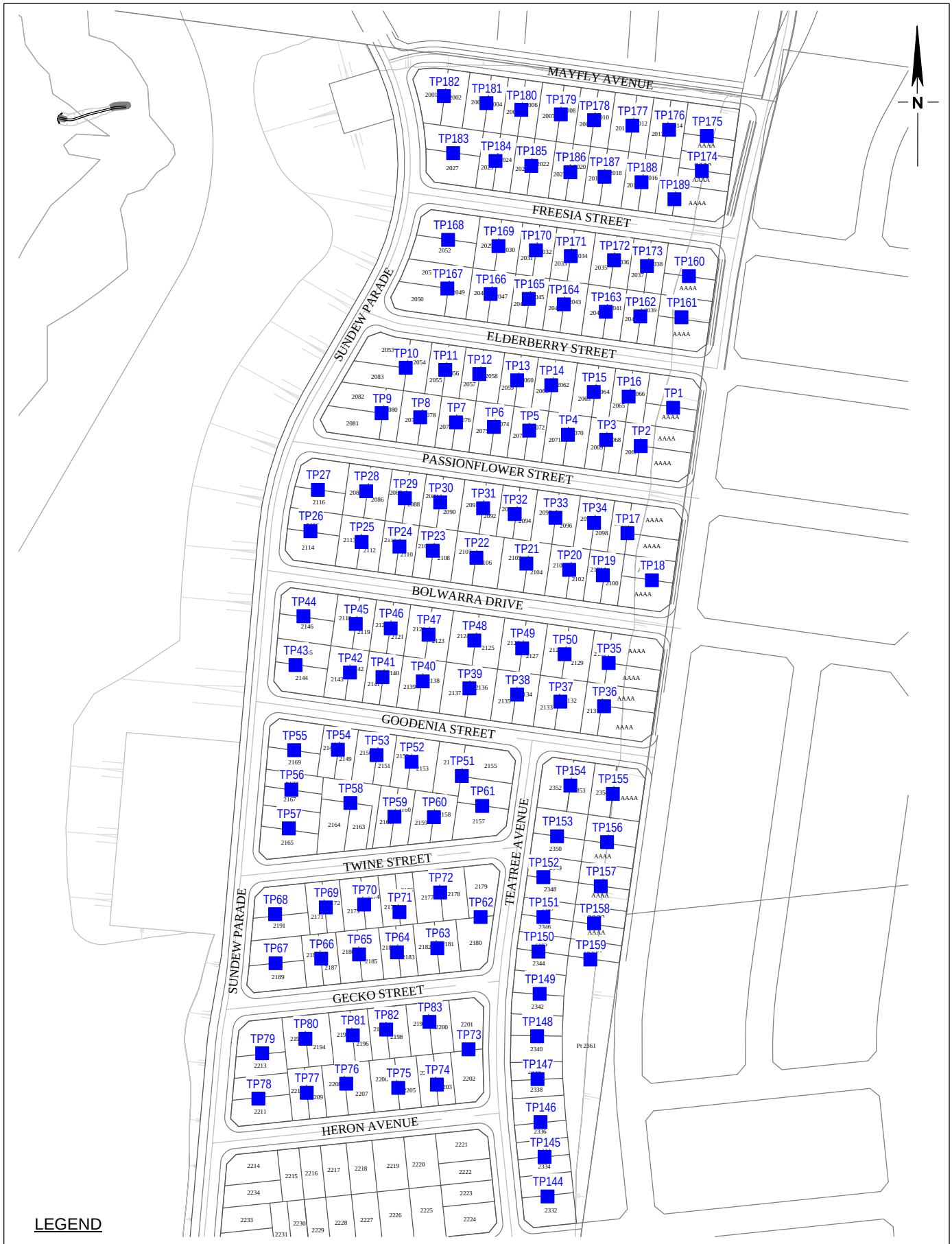
Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
183	0-1.50	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some sandstone, traces of gravel and shale
		1.10-1.30 DSP	
184	0-1.1	0.4-0.6 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of gravel and sandstone
	1.1		Refusal at 1.1m (possible ripped shale fill material)
185	0-0.30	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of gravel and sandstone
	0.30-0.60		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.6-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some sandstone, traces of gravel and shale
186	0-1.50	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of gravel and sandstone
		1.10-1.30 DSP	
187	0-1.20	0.40-0.60 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of gravel and sandstone
		0.90-1.10 DSP	
	1.20-1.50		FILL: Ripped Shale, grey, very low strength, extremely weathered

TABLE A

Job No: 8599/8
Our Ref: 8599/8-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
188	0-0.55	0-0.20 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of gravel and sandstone
	0.55-0.85		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.85-1.50	1.30-1.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of gravel and sandstone
189	0-0.50	0.30-0.50 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some shale, traces of gravel and sandstone
	0.5-0.55		FILL: Ripped Shale, grey, very low strength, extremely weathered
	0.55		Refusal (on fill material, ripped shale)



LEGEND

Test Pit

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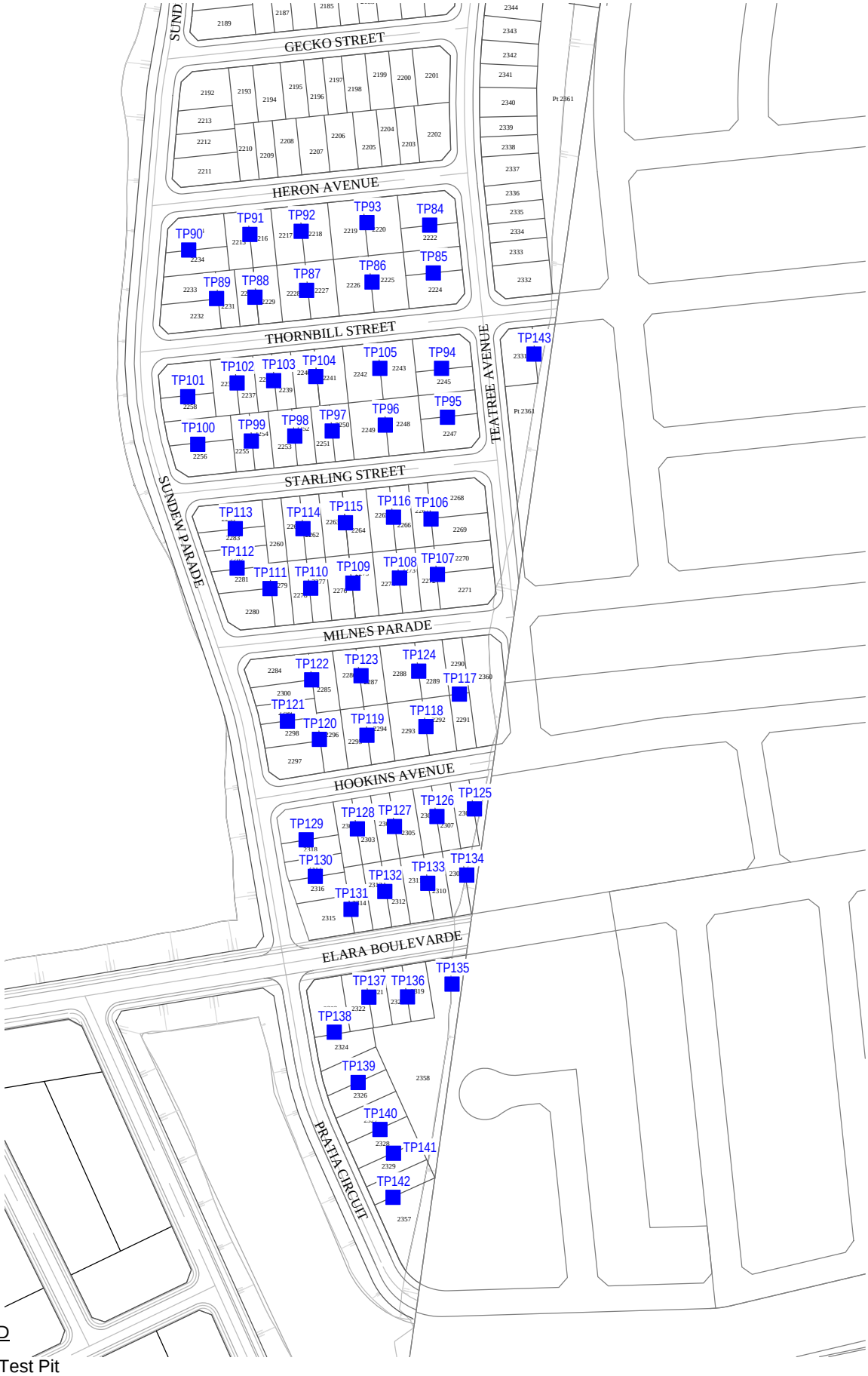
Daracon Contractors Pty Ltd
Residential Development
Woorong Park - Precinct 2
Marsden Park

Test Pit Locations

Drawing No: 8599/8-AA1
Job No: 8599/8
Drawn By: MH
Date: 28 March 2018
Checked By: KS/ZA

File No: 8599-8
Layers: 0, AA1



LEGEND

Test Pit

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Residential Development
Woorong Park - Precinct 2
Marsden Park

Test Pit Locations

Drawing No: 8599/8-AA2
Job No: 8599/8
Drawn By: MH
Date: 28 March 2018
Checked By: KS/ZA

File No: 8599-8
Layers: 0, AA2

APPENDIX B

SUMMARY OF SITE CLASSIFICATIONS

Job No: 8599/8
Our Ref: 8599/8-AA

TABLE B

SUMMARY OF SITE CLASSIFICATIONS
NEWPARK PRECINCT 2, MARSDEN PARK

Lot No	Site Classification	Lot No	Site Classification	Lot No	Site Classification
2001	Class "M"	2033	Class "M"	2065	Class "M"
2002	Class "M"	2034	Class "M"	2066	Class "M"
2003	Class "M"	2035	Class "M"	2067	Class "M"
2004	Class "M"	2036	Class "M"	2068	Class "M"
2005	Class "M"	2037	Class "M"	2069	Class "M"
2006	Class "M"	2038	Class "M"	2070	Class "M"
2007	Class "M"	2039	Class "M"	2071	Class "M"
2008	Class "M"	2040	Class "M"	2072	Class "M"
2009	Class "M"	2041	Class "M"	2073	Class "M"
2010	Class "M"	2042	Class "M"	2074	Class "M"
2011	Class "M"	2043	Class "M"	2075	Class "M"
2012	Class "M"	2044	Class "M"	2076	Class "M"
2013	Class "M"	2045	Class "M"	2077	Class "M"
2014	Class "M"	2046	Class "M"	2078	Class "M"
2015	Class "M"	2047	Class "M"	2079	Class "M"
2016	Class "M"	2048	Class "M"	2080	Class "M"
2017	Class "M"	2049	Class "M"	2081	Class "M"
2018	Class "M"	2050	Class "M"	2082	Class "M"
2019	Class "M"	2051	Class "M"	2083	Class "M"
2020	Class "M"	2052	Class "M"	2084	Class "M"
2021	Class "M"	2053	Class "M"	2085	Class "M"
2022	Class "M"	2054	Class "M"	2086	Class "M"
2023	Class "M"	2055	Class "M"	2087	Class "M"
2024	Class "M"	2056	Class "M"	2088	Class "M"
2025	Class "M"	2057	Class "M"	2089	Class "M"
2026	Class "M"	2058	Class "M"	2090	Class "M"
2027	Class "M"	2059	Class "M"	2091	Class "M"
2028	Class "M"	2060	Class "M"	2092	Class "M"
2029	Class "M"	2061	Class "M"	2093	Class "M"
2030	Class "M"	2062	Class "M"	2094	Class "M"
2031	Class "M"	2063	Class "M"	2095	Class "M"
2032	Class "M"	2064	Class "M"	2096	Class "M"

Class "M" : 20-40mm; Class "H1" : 40-60mm; Class "H2" : 60-75mm

Job No: 8599/8
Our Ref: 8599/8-AA

TABLE B (Cont'd)

SUMMARY OF SITE CLASSIFICATIONS
NEWPARK PRECINCT 2, MARSDEN PARK

Lot No	Site Classification	Lot No	Site Classification	Lot No	Site Classification
2097	Class "M"	2129	Class "M"	2161	Class "M"
2098	Class "M"	2130	Class "M"	2162	Class "M"
2099	Class "M"	2131	Class "M"	2163	Class "M"
2100	Class "H1"	2132	Class "M"	2164	Class "M"
2101	Class "H1"	2133	Class "M"	2165	Class "H1"
2102	Class "M"	2134	Class "M"	2166	Class "H1"
2103	Class "M"	2135	Class "M"	2167	Class "H1"
2104	Class "M"	2136	Class "M"	2168	Class "H1"
2105	Class "M"	2137	Class "M"	2169	Class "H1"
2106	Class "M"	2138	Class "M"	2170	Class "M"
2107	Class "M"	2139	Class "M"	2171	Class "M"
2108	Class "M"	2140	Class "M"	2172	Class "M"
2109	Class "M"	2141	Class "M"	2173	Class "M"
2110	Class "M"	2142	Class "M"	2174	Class "M"
2111	Class "M"	2143	Class "M"	2175	Class "M"
2112	Class "M"	2144	Class "H2	2176	Class "M"
2113	Class "M"	2145	Class "H2"	2177	Class "M"
2114	Class "M"	2146	Class "H2"	2178	Class "M"
2115	Class "M"	2147	Class "H2"	2179	Class "M"
2116	Class "M"	2148	Class "M"	2180	Class "M"
2117	Class "M"	2149	Class "M"	2181	Class "M"
2118	Class "M"	2150	Class "M"	2182	Class "M"
2119	Class "M"	2151	Class "M"	2183	Class "M"
2120	Class "M"	2152	Class "M"	2184	Class "M"
2121	Class "M"	2153	Class "M"	2185	Class "M"
2122	Class "M"	2154	Class "M"	2186	Class "M"
2123	Class "M"	2155	Class "M"	2187	Class "M"
2124	Class "M"	2156	Class "M"	2188	Class "M"
2125	Class "M"	2157	Class "M"	2189	Class "M"
2126	Class "H1"	2158	Class "M"	2190	Class "M"
2127	Class "H1"	2159	Class "M"	2191	Class "M"
2128	Class "M"	2160	Class "M"	2192	Class "M"

Class "M" : 20-40mm; Class "H1" : 40-60mm; Class "H2" : 60-75mm

Job No: 8599/8
Our Ref: 8599/8-AA

TABLE B (Cont'd)

SUMMARY OF SITE CLASSIFICATIONS
NEWPARK PRECINCT 2, MARSDEN PARK

Lot No	Site Classification	Lot No	Site Classification	Lot No	Site Classification
2193	Class "M"	2225	Class "M"	2257	Class "H2"
2194	Class "M"	2226	Class "M"	2258	Class "M"
2195	Class "M"	2227	Class "M"	2259	Class "M"
2196	Class "M"	2228	Class "M"	2260	Class "M"
2197	Class "M"	2229	Class "M"	2261	Class "M"
2198	Class "M"	2230	Class "M"	2262	Class "M"
2199	Class "M"	2231	Class "H1"	2263	Class "M"
2200	Class "M"	2232	Class "H1"	2264	Class "M"
2201	Class "H1"	2233	Class "H1"	2265	Class "M"
2202	Class "H1"	2234	Class "M"	2266	Class "M"
2203	Class "M"	2235	Class "M"	2267	Class "H1"
2204	Class "M"	2236	Class "M"	2268	Class "H1"
2205	Class "M"	2237	Class "M"	2269	Class "H1"
2206	Class "M"	2238	Class "M"	2270	Class "H1"
2207	Class "M"	2239	Class "M"	2271	Class "H1"
2208	Class "M"	2240	Class "M"	2272	Class "H1"
2209	Class "M"	2241	Class "M"	2273	Class "H1"
2210	Class "M"	2242	Class "M"	2274	Class "H1"
2211	Class "M"	2243	Class "M"	2275	Class "H1"
2212	Class "M"	2244	Class "M"	2276	Class "H1"
2213	Class "M"	2245	Class "M"	2277	Class "H1"
2214	Class "M"	2246	Class "H1"	2278	Class "H1"
2215	Class "H1"	2247	Class "H1"	2279	Class "M"
2216	Class "H1"	2248	Class "H1"	2280	Class "M"
2217	Class "M"	2249	Class "H1"	2281	Class "M"
2218	Class "M"	2250	Class "H1"	2282	Class "M"
2219	Class "M"	2251	Class "H1"	2283	Class "M"
2220	Class "M"	2252	Class "H1"	2284	Class "H1
2221	Class "M"	2253	Class "H1"	2285	Class "M"
2222	Class "M"	2254	Class "H1"	2286	Class "M"
2223	Class "H1"	2255	Class "H1"	2287	Class "M"
2224	Class "H1"	2256	Class "H2"	2288	Class "M"

Job No: 8599/8
Our Ref: 8599/8-AA

TABLE B (Cont'd)

SUMMARY OF SITE CLASSIFICATIONS
NEWPARK PRECINCT 2, MARSDEN PARK

Lot No	Site Classification	Lot No	Site Classification	Lot No	Site Classification
2289	Class "M"	2321	Class "H1"	2353	Class "M"
2290	Class "H1"	2322	Class "H1"	2354	Class "M"
2291	Class "H1"	2323	Class "H1"	2401	Class "M"
2292	Class "H1"	2324	Class "H1"	2402	Class "M"
2293	Class "H1"	2325	Class "M"	2403	Class "M"
2294	Class "H1"	2326	Class "M"	2404	Class "M"
2295	Class "H1"	2327	Class "M"	2405	Class "M"
2296	Class "H1"	2328	Class "M"	2406	Class "M"
2297	Class "H1"	2329	Class "M"	2407	Class "M"
2298	Class "H1"	2330	Class "H1"	2408	Class "M"
2299	Class "H1"	2331	Class "M"	2409	Class "M"
2300	Class "H1"	2332	Class "H1"	2410	Class "M"
2301	Class "M"	2333	Class "H1"	2411	Class "M"
2302	Class "M"	2334	Class "H1"	2412	Class "M"
2303	Class "M"	2335	Class "H1"	2413	Class "M"
2304	Class "H1	2336	Class "M"	2414	Class "M"
2305	Class "H1	2337	Class "M"	2415	Class "M"
2306	Class "M"	2338	Class "M"	2416	Class "M"
2307	Class "M"	2339	Class "M"	2417	Class "M"
2308	Class "M"	2340	Class "M"	2418	Class "M"
2309	Class "H1"	2341	Class "M"	2419	Class "M"
2310	Class "M"	2342	Class "M"	2420	Class "M"
2311	Class "M"	2343	Class "M"	2421	Class "M"
2312	Class "M"	2344	Class "M"	2422	Class "M"
2313	Class "M"	2345	Class "M"	2423	Class "M"
2314	Class "M"	2346	Class "M"	2424	Class "M"
2315	Class "M"	2347	Class "M"	2425	Class "M"
2316	Class "M"	2348	Class "M"	2426	Class "M"
2317	Class "M"	2349	Class "M"	2427	Class "M"
2318	Class "M"	2350	Class "M"	2428	Class "M"
2319	Class "H1"	2351	Class "M"	2429	Class "M"
2320	Class "H1"	2352	Class "M"		

APPENDIX C

LABORATORY TEST RESULTS
(Shrink/Swell & Atterberg Limits)

GEOTECH TESTING PTY LTD®
ABN 71 076 676 321

DARACON CONTRACTORS PTY LTD
184 ADDERLEY STREET WEST
AUBURN NSW 2144

Job No:	8599/8
Tested By:	JM
Checked By:	AK
Date Tested:	07 to 13 March 2018
Laboratory	Penrith

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT.WOORONG PARK, MARSDEN PARK, PRECINCT 2

TEST RESULTS - SHRINK / SWELL INDEX

Test Procedure: AS 1289 7.1.1

Sample Identification	Test Pit 7	Test Pit 11	Test Pit 16	Test Pit 19
Depth (m)	0.3 - 0.5	0.6 - 0.8	0.9 - 1.1	0.5 - 0.7
Laboratory Number	8599/8-2	8599/8-3	8599/8-4	8599/8-5
Test Description				
Moisture Content				
Initial %	8.1	15.4	16.3	16.5
Final %	17.9	20.4	24.1	27.3
Swell %	4.8	1.9	2.1	4.9
Shrinkage %	0.9	0.8	1.6	2.3
Shrink/Swell Index %/$_p$F	1.8	1.0	1.5	2.6
Material Description	FILL: Silty Clay, low to medium plasticity, pale brown & grey, trace of fine to medium gravel	FILL: Sandy Clay, low plasticity, red-brown & grey, trace of fine to medium gravel	FILL: Sandy Clay, medium plasticity, red-brown & grey, trace of fine to medium gravel	FILL: Silty Clay, low plasticity, red-brown & grey, trace of fine to medium gravel

Accredited for compliance with ISO/IEC 17025 - Testing.

A Kench 28/03/2018
Approved Signatory

NATA Accreditation Number 2734
Corporate Site Number 2727

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Laboratory	Penrith

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT.WOORONG PARK, MARSDEN PARK, PRECINCT 2

TEST RESULTS - SHRINK / SWELL INDEX

Test Procedure: AS 1289 7.1.1

Sample Identification	Test Pit 26	Test Pit 37	Test Pit 43	Test Pit 48
Depth (m)	0.3 - 0.5	0.4 - 0.6	1.0 - 1.2	0.6 - 0.8
Laboratory Number	8599/8-6	8599/8-8	8599/8-9	8599/8-10
Test Description				
Moisture Content				
Initial %	11.3	10.7	12.7	14.5
Final %	19.0	21.4	25.5	21.9
Swell %	0.5	1.8	14.3	1.2
Shrinkage %	1.4	1.5	2.6	2.1
Shrink/Swell Index $\%/_{p}F$	0.9	1.3	5.4	1.5
Material Description	FILL: Sandy Clay, low plasticity, yellow-brown	FILL: Sandy Clay, low plasticity, red-brown & grey, trace of fine to medium gravel	FILL, Sandy Clay, high plasticity, red-brown & grey, trace of fine to medium gravel	FILL: Clay, low plasticity, red-brown

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Laboratory	Penrith

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT.WOORONG PARK, MARSDEN PARK, PRECINCT 2

TEST RESULTS - SHRINK / SWELL INDEX

Test Procedure: AS 1289 7.1.1

Sample Identification	Test Pit 54	Test Pit 61	Test Pit 73	Test Pit 81
Depth (m)	0.5 - 0.7	0.35 - 0.55	0.3 - 0.5	0.5 - 0.7
Laboratory Number	8599/8-11	8599/8-12	8599/8-14	8599/8-15
Test Description				
Moisture Content				
Initial %	24.7	12.6	21.2	17.1
Final %	29.1	16.4	28.6	23.6
Swell %	0.2	Nil	5.0	3.1
Shrinkage %	3.1	2.0	3.7	2.5
Shrink/Swell Index %/$_p$F	1.8	1.1	3.4	2.2
Material Description	(CL-CI) Silty CLAY, low to medium plasticity, brown, trace of fine to medium gravel	(CL) Sandy CLAY, low plasticity, red-brown & grey	(CH) CLAY, high plasticity, red-brown	(CI) Sandy CLAY, medium plasticity, red-brown with grey mottling, trace of fine to medium gravel

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Job No:	8599/8
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Laboratory	Penrith

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT.WOORONG PARK, MARSDEN PARK, PRECINCT 2

TEST RESULTS - SHRINK / SWELL INDEX

Test Procedure: AS 1289 7.1.1

Sample Identification	Test Pit 89	Test Pit 100	Test Pit 111	Test Pit117
Depth (m)	0.6 - 0.9	0.4 - 0.6	0.8 - 1.0	0.5 - 0.7
Laboratory Number	8599/8-16	8599/8-17	8599/8-19	8599/8-20
Test Description				
Moisture Content				
Initial %	18.2	16.3	14.4	20.5
Final %	24.1	27.8	25.9	24.3
Swell %	6.2	11.1	3.9	2.3
Shrinkage %	3.2	3.9	1.8	3.9
Shrink/Swell Index %/$_p$F	3.5	5.3	2.1	2.8
Material Description	(CH) Sandy CLAY, high plasticity, red-brown with grey mottling, trace of fine to medium gravel	(CH) CLAY, high plasticity, red-brown	(CI) Sandy CLAY, medium plasticity, red-brown with grey mottling, trace of fine to medium gravel	(CI-CH) Sandy CLAY, medium to high plasticity, red-brown with grey mottling, trace of fine to medium gravel

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184 ADDERLEY STREET WEST
AUBURN NSW 2144

Job No:	8599/8
Tested By:	JM
Checked By:	AK
Date Tested:	07 to 13 March 2018
Laboratory	Penrith

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT.WOORONG PARK, MARSDEN PARK, PRECINCT 2

TEST RESULTS - SHRINK / SWELL INDEX

Test Procedure: AS 1289 7.1.1

Sample Identification	Test Pit 127	Test Pit 134	Test Pit 146	Test Pit 152
Depth (m)	0.4 - 0.6	0.85 - 1.05	0.85 - 1.05	0.6 - 0.8
Laboratory Number	8599/8-22	8599/8-23	8599/8-25	8599/8-26
Test Description				
Moisture Content				
Initial %	16.8	28.6	11.5	21.4
Final %	23.2	35.4	22.3	26.6
Swell %	3.6	2.2	1.8	2.8
Shrinkage %	4.0	5.1	2.9	2.3
Shrink/Swell Index $\%/_{p}F$	3.2	3.5	2.1	2.0
Material Description	(CH) Sandy CLAY, high plasticity, red-brown with grey mottling, trace of fine to medium gravel	FILL: Clay, high plasticity, red-brown & grey	FILL: Clay, low to medium plasticity, red-brown & grey	FILL, Clay, low to medium plasticity, red-brown & grey

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SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT.WOORONG PARK, MARSDEN PARK, PRECINCT 2

TEST RESULTS - ATTERBERG LIMITS

Test Procedure AS1289 3.1.1, 3.2.1, 3.3.1, 3.4.1

Job No:	8599/8	Tested By:	TS
Laboratory	Penrith	Checked By:	AK
Date Tested	07/03/2018		

Sample Identification	Test Pit 32	Test Pit 106	Test Pit 121
Laboratory Number	8599/8-7	8599/8-18	8599/8-21
Depth (m)	0.8 - 1.0	0.6 - 0.8	0.3 - 0.5
Test Description			
Liquid Limit (W_L)	31%	57%	48%
Plastic Limit (W_P)	20%	20%	24%
Plastic Index (I_P)	11%	37%	24%
Linear Shrinkage (LS)	7.0%	12.5%	12.5%
Mould Length (mm)	127	127	127
Sample History	Oven Dried Dry Sieved	Oven Dried Dry Sieved	Oven Dried Dry Sieved
Material Description	FILL: Silty sandy Clay, low to medium plasticity, light brown, trace of fine to medium gravel	(CH) Silty sandy CLAY, high plasticity, red-brown	(CI-CH) Sandy CLAY, medium to high plasticity, red-brown with grey mottling, trace of fine to medium gravel

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SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT.WOORONG PARK, MARSDEN PARK, PRECINCT 2

TEST RESULTS - ATTERBERG LIMITS

Test Procedure AS1289 3.1.1, 3.2.1, 3.3.1, 3.4.1

Job No:	8599/8	Tested By:	TS
Laboratory	Penrith	Checked By:	AK
Date Tested	07/03/2018		

Sample Identification	Test Pit 163
Laboratory Number	8599/8-28
Depth (m)	0.3 - 0.45
Test Description	
Liquid Limit (W_L)	34%
Plastic Limit (W_P)	18%
Plastic Index (I_P)	16%
Linear Shrinkage (LS)	8.5%
Mould Length (mm)	127
Sample History	Oven Dried Dry Sieved
Material Description	FILL: Sandy Clay low to medium plasticity, red-brown & grey, trace of fine to medium gravel

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