



Job No: 8599/27
Our Ref: 8599/27-AA
20 September 2019

Daracon Contractors Pty Ltd
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Email: SimpsonW@daracon.com.au

Attention: Mr S Wong / Mr J Letby

Dear Sirs

re: **Newpark – Precinct 6, Marsden Park
Elara Blvd, Marsden Park
Site Classification Report**

Please find herewith the results of a geotechnical investigation for the classification of proposed lots at the above site. Two hundred and forty eight (248) lots are covered in this investigation (Lot 6001 to Lot 6248).

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

A handwritten signature in black ink, appearing to read "Ram Ravi-Indran", is written over a horizontal line.

RAM RAVI-INDRAN
Geotechnical Engineer

TABLE OF CONTENTS

	page
1.0 INTRODUCTION -----	1
2.0 FIELD WORK -----	1
3.0 SITE CONDITIONS -----	1
3.1 Site Description -----	1
3.2 Sub-Surface Conditions -----	1
4.0 LABORATORY TESTING -----	6
5.0 DISCUSSION & RECOMMENDATIONS -----	7
5.1 Assessment of Fill -----	7
5.2 Site Classification -----	7

APPENDICES

<i>APPENDIX A</i>	<i>Table A - Summary of Test Pits Test Pit Location Plans (Drawing No 8599/27-AA1)</i>
<i>APPENDIX B</i>	<i>Summary of Site Classifications</i>
<i>APPENDIX C</i>	<i>Laboratory Test Results</i>

8599/27-AA
Newpark Precinct 6 - Elara Blvd, Marsden Park

1.0 INTRODUCTION

This report provides results of a geotechnical investigation for the classification of proposed lots at the Newpark Precinct 6, located on Elara Blvd, Marsden Park. The work was commissioned by Daracon Contractors Pty Ltd in a purchase order dated 31 October 2018 (Ref No Q1379-AG PO ref same as quote?) and was conducted in accordance with our fee proposal dated 13 August 2018 (Ref: ER.sf/Q1379-AG). A total of two hundred and forty eight (248) lots are covered in this report.

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 to be of brick veneer construction and that 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 4th and 9th of August 2019 under the full time supervision of a Geotechnical Engineer from this company and consisted of the excavation of 125 test pits (TP1 to TP125) using a 5 tonne excavator fitted with a 450mm bucket. The test pits were terminated at a depth of 1.5m or refusal on bedrock and their approximate locations are indicated on the attached Drawing No 8599/27-AA1. The brief descriptions of materials encountered in the test pits are provided in the attached Table A.

3.0 SITE CONDITIONS

3.1 Site Description

The site (Precinct 6) is connected to Elara Blvd to the north and is bounded by newly developed subdivision land on all sides. The site was originally farmland with scattered trees which are now removed. Topography of the site is generally sloping towards south-west direction. At the time of investigation, earthworks for the lots had been completed and topsoil spreading on some of the lots was underway. The site was devoid of any vegetation at the time of investigation.

3.2 Sub-Surface Conditions

Subsurface conditions encountered in the test pits are detailed in the attached Table A and summarised below in Table 1.

Table 1: Sub-surface Conditions

Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)	Bedrock (m)
TP1	1.5	0.0-0.2	0.2-0.4	0.4-1.5	NE
TP2	1.5	0.0-0.2	0.2-0.3	0.3-1.5	NE
TP3	1.5	0.0-0.2	0.2-0.4	0.4-1.5	NE

8599/27-AA

Newpark Precinct 6 - Elara Blvd, Marsden Park

Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)	Bedrock (m)
TP4	1.5	0.0-0.2	NE	0.2-1.5	NE
TP5	1.5	0.0-0.2	0.2-1.5	NE	NE
TP6	1.5	0.0-0.2	0.2-1.5	NE	NE
TP7	1.5	0.0-0.2	NE	0.2-1.5	NE
TP8	1.5	0.0-0.2	0.2-1.5	NE	NE
TP9	1.5	0.0-0.2	0.2-0.3	0.3-1.5	NE
TP10	1.5	0.2-0.2	0.2-0.3	0.3-1.5	NE
TP11	1.5	0.0-0.2	0.2-0.4	0.4-1.5	NE
TP12	1.5	0.0-0.2	0.2-0.9	0.9-1.5	NE
TP13	1.5	0.0-0.2	NE	0.2-1.5	NE
TP14	1.5	0.0-0.2	NE	0.2-1.5	NE
TP15	1.5	0.0-0.2	NE	0.2-1.5	NE
TP16	1.5	0.0-0.2	0.2-0.4	0.4-1.5	NE
TP17	1.5	0.0-0.2	0.2-0.7	0.7-1.5	NE
TP18	1.5	0.0-0.2	0.2-0.4	0.4-1.5	NE
TP19	1.5	NE	NE	0.0-1.5	NE
TP20	1.5	0.0-0.2	NE	0.2-1.5	NE
TP21	1.5	NE	NE	0.0-1.5	NE
TP22	1.5	0.0-0.2	NE	0.2-1.5	NE
TP23	1.5	NE	0.0-0.5	0.5-1.5	NE
TP24	1.5	0.0-0.2	0.2-0.6	0.6-1.5	NE
TP25	1.5	0.0-0.2	0.2-0.5	0.5-1.5	NE
TP26	1.5	0.0-0.2	NE	0.2-1.5	NE
TP27	1.5	0.0-0.2	0.2-0.3	0.3-1.5	NE
TP28	1.5	0.0-0.2	NE	0.2-1.5	NE
TP29	1.5	0.0-0.2	0.2-0.3	0.3-1.5	NE
TP30	1.5	0.0-0.2	NE	0.2-1.5	NE
TP31	1.5	0.0-0.2	0.2-0.4	0.4-1.5	NE
TP32	1.5	0.0-0.2	NE	0.2-1.5	NE
TP33	1.5	0.0-0.2	NE	0.2-1.5	NE
TP34	1.5	0.0-0.2	0.2-0.5	0.5-1.5	NE
TP35	1.5	0.0-0.2	0.2-1.2	1.2-1.5	NE
TP36	1.5	0.0-0.2	0.2-0.7	0.7-1.5	NE
TP37	1.5	0.0-0.2	0.2-1.3	1.3-1.5	NE
TP38	1.5	0.0-0.1	0.1-1.2	1.2-1.5	NE
TP39	1.5	NE	0.0-0.7	0.7-1.5	NE

8599/27-AA

Newpark Precinct 6 - Elara Blvd, Marsden Park

Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)	Bedrock (m)
TP40	1.5	0.0-0.2	0.2-0.9	0.9-1.5	NE
TP41	1.5	NE	0.0-0.2	0.2-1.5	NE
TP42	1.5	NE	0.0-0.9	0.9-1.5	NE
TP43	1.5	NE	0.0-1.1	1.1-1.5	NE
TP44	1.5	NE	0.0-0.9	0.9-1.5	NE
TP45	1.5	NE	0.0-0.8	0.8-1.5	NE
TP46	1.5	NE	0.0-1.2	1.2-1.5	NE
TP47	1.5	NE	0.0-0.9	0.9-1.5	NE
TP48	1.5	NE	0.0-0.8	0.8-1.5	NE
TP49	1.5	NE	0.0-0.8	0.8-1.5	NE
TP50	1.5	NE	0.0-0.9	0.9-1.5	NE
TP51	1.5	NE	0.0-0.6	0.6-1.5	NE
TP52	1.5	NE	0.0-0.8	0.8-1.5	NE
TP53	1.5	NE	0.0-0.8	0.8-1.5	NE
TP54	1.5	NE	0.0-0.1	0.1-1.5	NE
TP55	1.5	NE	0.0-0.1	0.1-1.5	NE
TP56	1.5	NE	0.0-0.1	0.1-1.5	NE
TP57	1.5	NE	0.0-0.2	0.2-1.5	NE
TP58	1.5	NE	0.0-0.2	0.2-1.5	NE
TP59	1.5	NE	0.0-0.2	0.2-1.5	NE
TP60	1.5	NE	0.0-0.2	0.2-1.5	NE
TP61	1.5	NE	0.0-0.2	0.2-1.5	NE
TP62	1.5	NE	0.0-0.2	0.2-1.5	NE
TP63	1.5	NE	0.0-0.2	0.2-1.5	NE
TP64	1.5	NE	0.0-0.8	0.8-1.5	NE
TP65	1.5	NE	0.0-0.2	0.2-1.5	NE
TP66	1.5	NE	0.0-0.2	0.2-1.5	NE
TP67	1.5	NE	0.0-0.2	0.2-1.5	NE
TP68	1.5	NE	0.0-0.3	0.3-1.5	NE
TP69	1.5	NE	0.0-0.3	0.3-1.5	NE
TP70	1.5	NE	0.0-0.2	0.2-1.5	NE
TP71	1.5	NE	0.0-0.3	0.3-1.5	NE
TP72	1.5	NE	0.0-0.2	0.2-1.5	NE
TP73	1.5	NE	0.0-0.3	0.3-1.5	NE
TP74	1.5	NE	0.0-0.3	0.3-1.5	NE
TP75	1.5	NE	0.0-0.3	0.3-1.5	NE

8599/27-AA

Newpark Precinct 6 - Elara Blvd, Marsden Park

Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)	Bedrock (m)
TP76	1.5	NE	0.0-0.3	0.3-1.5	NE
TP77	1.5	NE	0.0-0.3	0.3-1.5	NE
TP78	1.5	NE	0.0-0.3	0.3-1.5	NE
TP79	1.5	NE	0.0-0.3	0.3-1.5	NE
TP80	1.5	NE	0.0-0.6	0.6-1.5	NE
TP81	1.5	NE	0.0-0.5	0.5-1.5	NE
TP82	1.5	NE	0.0-0.6	0.6-1.5	NE
TP83	1.5	NE	0.0-0.6	0.6-1.5	NE
TP84	1.5	NE	0.0-0.3	0.3-1.5	NE
TP85	1.5	NE	0.0-0.5	0.5-1.5	NE
TP86	0.4	0.0-0.3	NE	NE	0.3-0.4
TP87	0.4	0.0-0.3	NE	NE	0.3-0.4
TP88	0.4	0.0-0.3	NE	NE	0.3-0.4
TP89	1.5	NE	0.0-0.3	0.3-1.5	NE
TP90	1.5	NE	0.0-0.3	0.3-1.5	NE
TP91	0.4	NE	0.0-0.3	NE	0.3-0.4
TP92	1.5	NE	0.0-0.3	0.3-1.5	NE
TP93	1.5	0.0-0.3	NE	0.3-1.5	NE
TP94	0.4	0.0-0.3	NE	NE	0.3-0.4
TP95	1.5	NE	0.0-1.5	NE	NE
TP96	1.5	NE	0.0-1.5	NE	NE
TP97	1.5	NE	0.0-1.2	1.2-1.5	NE
TP98	1.5	NE	0.0-1.2	1.2-1.5	NE
TP99	1.5	NE	0.0-1.5	NE	NE
TP100	1.5	NE	0.0-1.2	1.2-1.5	NE
TP101	1.5	0.2-0.3	0.3-0.7	0.7-1.5	NE
TP102	1.5	NE	0.0-0.5	0.5-1.5	NE
TP103	1.5	NE	0.0-0.3	0.3-1.5	NE
TP104	1.5	NE	0.0-0.3	0.3-1.5	NE
TP105	1.5	NE	0.0-0.3	0.3-1.5	NE
TP106	1.5	NE	0.0-0.4	0.4-1.5	NE
TP107	1.5	NE	0.0-0.3	0.3-1.5	NE
TP108	1.5	NE	0.0-0.4	0.4-1.5	NE
TP109	1.5	NE	0.0-0.3	0.3-1.5	NE
TP110	1.5	NE	0.0-0.3	0.3-1.5	NE
TP111	1.5	NE	0.0-0.3	0.3-1.5	NE

8599/27-AA

Newpark Precinct 6 - Elara Blvd, Marsden Park

Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)	Bedrock (m)
TP112	1.5	NE	0.0-0.3	0.3-1.5	NE
TP113	1.5	NE	0.0-0.3	0.3-1.5	NE
TP114	1.5	NE	0.0-0.3	0.3-1.5	NE
TP115	1.5	NE	0.0-0.3	0.3-1.5	NE
TP116	1.5	NE	0.0-0.3	0.3-1.5	NE
TP117	1.5	NE	0.0-0.3	0.3-1.5	NE
TP118	1.5	NE	0.0-0.3	0.3-1.5	NE
TP119	1.5	NE	0.0-0.3	0.3-1.5	NE
TP120	1.5	NE	0.0-0.3	0.3-1.5	NE
TP121	1.5	NE	0.0-0.9	0.9-1.5	NE
TP122	1.5	NE	0.0-1.2	1.2-1.5	NE
TP123	1.5	NE	0.0-1.5	NE	NE
TP124	1.5	NE	0.0-1.5	NE	NE
TP125	1.5	NE	0.0-1.5	NE	NE

NE: Not Encountered

The materials encountered in the test pits can be generalised as below:

Topsoil	Silty Clay, low plasticity, dark brown, with grass roots
Fill	<p>Silty Sandy Clay, low plasticity, brown</p> <p>Silty Clay, low to medium plasticity, dark brown, traces of ironstone</p> <p>Silty Clay, medium to high plasticity, grey and orange, with ironstone, gravel and cobbles</p> <p>Silty Clay, medium plasticity, red and grey, with ironstone gravel</p> <p>Silty Clay, low to medium plasticity, brown</p> <p>Silty Clay, high plasticity, grey, with ironstone gravel</p> <p>Silty Clay, low to medium plasticity, brown mottled grey</p> <p>Silty Clay, high plasticity, red</p>
Natural	<p>Silty CLAY, medium to high plasticity, pale grey, with ironstone gravel</p> <p>Silty CLAY, medium to high plasticity, pale grey and pale brown</p> <p>Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel</p> <p>Silty CLAY, medium to high plasticity, red mottled grey, traces of ironstone</p> <p>Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles</p> <p>Silty CLAY, medium plasticity, grey/red, with ironstone gravel and cobbles</p> <p>Silty Sandy CLAY, low plasticity, red, with ironstone gravel</p>
Bedrock	SILTSTONE, red and yellow-brown, extremely to distinctly weathered, very low to low strength

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.

8599/27-AA

Newpark Precinct 6 - Elara Blvd, Marsden Park

4.0 LABORATORY TESTING

During the site investigation, ten undisturbed samples (U_{50}) and six disturbed samples were recovered for shrink/swell index and Atterberg limit tests, aimed at assessing soil reactivity at moisture changes. The tests were conducted as per relevant Australian Standards. The test certificates are attached and results are summarised below.

Test Pit	Depth (m)	Material Description	I_{ss} (%/pF)	LL (%)	PI (%)	LS (%)
TP2	0.5 – 0.8	(CI-CH) Silty CLAY, medium to high plasticity, pale grey and pale brown	5.5	-	-	-
TP4	1.2 – 1.4	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel	-	37	19	8.5
TP7	1.0 – 1.2	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel	-	72	52	13.5
TP13	0.2 – 0.5	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel	2.7	-	-	-
TP14	1.1 – 1.3	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles	-	47	32	8.5
TP24	0.7 – 1.0	(CI-CH) Silty CLAY, medium to high plasticity, pale grey/red, with ironstone gravel and cobbles	2.8	-	-	-
TP28	0.6 – 0.9	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel	-	86	64	18.0
TP40	0.6 – 0.9	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel	2.9	-	-	-
TP42	1.0 – 1.2	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel	-	71	50	18.5
TP45	0.7 – 1.0	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel	3.3	-	-	-
TP47	1.1 – 1.3	(CI-CH) Silty CLAY, medium to high plasticity, pale grey and pale brown, with ironstone gravel	-	40	26	9.5
TP59	0.4 – 0.7	(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel	4.2	-	-	-
TP62	1.2 – 1.4	(CH) Silty CLAY, high plasticity, pale grey and pale brown, with cobbles and boulders	-	75	53	19.0
TP84	0.5 – 0.8	(CH) Silty CLAY, high plasticity, grey mottled red-yellow	7.0	-	-	-
TP85	1.1 – 1.2	(CI-CH) Silty CLAY, medium to high plasticity, orange and grey-brown	-	44	29	10.5
TP106	0.6 – 0.9	(CI-CH) Silty CLAY, medium to high plasticity, grey and red, with ironstone gravel	1.9	-	-	-
TP109	0.7 – 0.9	(CI-CH) Silty CLAY, medium to high plasticity, red mottled grey, traces of ironstone	-	58	41	11.5
TP117	0.5 – 0.8	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone	5.1	-	-	-

I_{ss} : Shrink/Swell Index, LL: Liquid Limit, PI: Plasticity Index, LS: Linear Shrinkage

8599/27-AA

Newpark Precinct 6 - Elara Blvd, Marsden Park

5.0 DISCUSSION & RECOMMENDATIONS

5.1 Assessment of Fill

Clayey fill material of considerable depth was encountered in some of the test pits across the site. Geotech Testing Pty Ltd conducted sufficient number of compaction tests during fill placement and test results are reported separately. Based on the visual inspection of the material in the test pits and compaction test results, the fill placed on the lots is classified as "Controlled".

5.2 Site Classification

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 date of conducting the investigation, being between 4th and 9th of August 2019 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
SUMMARY OF TEST PITS
TEST PIT LOCATION PLAN
(Drawing No 8599/27-AA TP1-TP125)

TABLE A

Job No: 8599/27
 Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP1	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.4-1.5	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M≤PL, stiff
TP2	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.3	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.3-1.5	0.7-0.8 (DS) 0.5-0.8 (U50)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M≤PL, stiff
TP3	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.4-1.5	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, stiff
TP4	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.6	0.2-0.3 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, stiff
	0.6-1.2	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, stiff to very stiff
	1.2-1.5	1.2-1.4 (DB)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, stiff to very stiff
TP5	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.4-1.5	0.7-0.8 (DS)	FILL: Silty Clay, medium to high plasticity, grey and orange, with ironstone, gravel and cobbles, M<OMC, well compacted

TABLE A

Job No: 8599/27
 Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP6	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-1.0	0.2-0.3 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	1.0-1.5	0.7-0.8 (DS)	FILL: Silty Clay, medium to high plasticity, grey and orange, with ironstone, gravel and cobbles, M<OMC, well compacted
TP7	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-1.0	0.2-0.3 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
	1.0-1.5	0.7-0.8 (DS) 1.0-1.2 (DB)	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff
TP8	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.8	0.2-0.3 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	0.8-1.5	0.7-0.8 (DS)	FILL: Silty Clay, medium to high plasticity, grey and orange, with ironstone, gravel and cobbles, M<OMC, well compacted
TP9	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.3	0.2-0.3 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	0.3-1.0	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
	1.0-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff

TABLE A

Job No: 8599/27
 Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP10	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.3	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.3-1.3	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
	1.3-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff
TP11	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.4-1.0	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
	1.0-1.5		(CI) Silty Sandy CLAY, medium plasticity, dark brown and red, with sandstone gravel, M<PL, very stiff
TP12	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.9	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, with ironstone, gravel and cobbles, M<OMC, well compacted
	0.9-1.5	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, stiff to very stiff
TP13	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.5	0.2-0.3 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
	0.5-1.5	0.7-0.8 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, very stiff
		0.2-0.5 (U50)	
TP14	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-1.0	0.2-0.3 (DS)	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff
		0.7-0.8 (DS)	
	1.0-1.5	1.1-1.3 (DB)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, hard

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP15	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-1.3	0.2-0.3 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff
	1.3-1.5	0.7-0.8 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, very stiff
TP16	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, medium to high plasticity, grey and orange, with ironstone, gravel and cobbles, M<OMC, well compacted
	0.4-1.5	0.7-0.8 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, hard
TP17	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.7	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.7-1.5	0.7-0.8 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, hard
TP18	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.4-1.5	0.7-0.8 (DS)	(CI) Silty CLAY, medium plasticity, grey/red, with ironstone gravel and cobbles, M<PL, very stiff
TP19	0.0-0.7	0.2-0.3 (DS)	(CL) Silty Sandy CLAY, low plasticity, red, with ironstone gravel, M<PL, very stiff to hard
	0.7-0.9	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff to hard
	0.9-1.5		(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, very stiff to hard

TABLE A

Job No: 8599/27
 Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP20	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.8	0.2-0.3 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff to hard
	0.8-1.5	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff to hard
TP21	0.0-0.5	0.2-0.3 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
	0.5-1.3	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, stiff to very stiff
	1.3-1.5		(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, hard
TP22	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-1.2	0.2-0.3 (DS)	(CI-CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, stiff to very stiff
	1.2-1.5	0.7-0.8 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff
TP23	0.0-0.5	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.5-0.9	0.7-0.8 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, stiff to very stiff
	0.9-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, stiff to very stiff
TP24	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.6	0.2-0.3 (DS)	FILL: Silty Clay, medium to high plasticity, grey and orange, with ironstone, gravel and cobbles, M<OMC, well compacted
	0.6-1.5	0.7-0.8 (DS) 0.7-1.0 (U50)	(CI-CH) Silty CLAY, medium to high plasticity, pale grey/red, with ironstone gravel and cobbles, M<PL, very stiff to hard

TABLE A

Job No: 8599/27
 Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP25	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.5	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.5-1.3	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff
	1.3-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff
TP26	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.9	0.2-0.3 (DS) 0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff
	0.9-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff
TP27	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.3	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.3-1.0	0.7-0.8 (DS)	(CI-CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff
	1.0-1.5		(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
TP28	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-1.2	0.2-0.3 (DS) 0.7-0.8 (DS) 0.7-0.9 (DB)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
	1.2-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP29	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.3	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.3-0.8	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, stiff
	0.8-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, stiff
TP30	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.9	0.2-0.3 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, stiff
	0.9-1.3	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, stiff to very stiff
	1.3-1.5		(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff
TP31	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	0.4-0.7		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff
	0.7-1.5	0.7-0.8 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, very stiff
TP32	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.4	0.2-0.3 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, hard
	0.4-1.5	0.7-0.8 (DS)	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, hard

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP33	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-1.3	0.2-0.3 (DS) 0.7-0.8 (DS) 0.3-0.5 (DB)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, M≤PL, very stiff
	1.3-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M≤PL, very stiff
TP34	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.5	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.5-1.0	0.7-0.8 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, very stiff
	1.0-1.5		(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
TP35	0.0-0.2	0.2-0.3 (DS)	TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-1.2	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	1.2-1.5		(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
TP36	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.7	0.2-0.3 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	0.7-1.5	0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
TP37	0.0-0.2	0.2-0.3 (DS)	TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-1.3	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown mottled grey, with traces of ironstone and sandstone gravel M<OMC, well compacted
	1.3-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP38	0.0-0.1		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.1-0.4	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, M<OMC, well compacted
	0.4-1.2	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	1.2-1.5		(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff to hard
TP39	0.0-0.2		FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.7	0.2-0.3 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	0.7-1.5	0.5-0.6 (DS) 0.6-0.9 (U50)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
TP40	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.2-0.9	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown mottled grey, M<OMC, well compacted
	0.9-1.5	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, hard
TP41	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, M<OMC, well compacted
	0.2-1.3	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff
	1.3-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, stiff
TP42	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, M<OMC, well compacted
	0.2-0.9	0.5-0.6 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	0.9-1.5	1.0-1.2 (DB)	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP43	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, M<OMC, well compacted
	0.2-1.1	0.5-0.6 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	1.1-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff to hard
TP44	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, M<OMC, well compacted
	0.2-0.9	0.5-0.6 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	0.9-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff
TP45	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, M<OMC, well compacted
	0.2-0.8	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.8-1.5	0.7-1.0 (U50)	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff to hard
TP46	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, M<OMC, well compacted
	0.2-1.2	0.5-0.6 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel and cobbles, M<OMC, well compacted
	1.2-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, stiff to very stiff
TP47	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.9	0.5-0.6 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	0.9-1.5	1.1-1.3 (DB)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP48	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.8	0.5-0.6 (DS)	FILL: Silty Clay, high plasticity, grey, with ironstone gravel, M<OMC, well compacted
	0.8-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard
TP49	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.8	0.5-0.6 (DS)	FILL: Silty Clay, high plasticity, grey, with ironstone gravel, M<OMC, well compacted
	0.8-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard
TP50	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.9	0.5-0.6 (DS)	FILL: Silty Clay, high plasticity, grey, with ironstone gravel, M<OMC, well compacted
	0.9-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard
TP51	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.6	0.5-0.6 (DS)	FILL: Silty Clay, high plasticity, grey, with ironstone gravel, M<OMC, well compacted
	0.6-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard
TP52	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.8	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.8-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP53	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.8	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, dark brown, traces of ironstone, M<OMC, well compacted
	0.8-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard
TP54	0.0-0.1	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.1-0.7	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, hard
	0.7-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, hard
TP55	0.0-0.1	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.1-0.7	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, stiff
	0.7-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, very stiff to hard
TP56	0.0-0.1	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.1-0.8	0.5-0.6 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, pale grey, with sandstone, cobbles and boulders, M<PL, stiff to very stiff
	0.8-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard
TP57	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-1.5	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP58	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-1.5	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard
TP59	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-1.5	0.5-0.6 (DS) 0.4-0.7 (U50)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard
TP60	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-1.5	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff to hard
TP61	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-1.5	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone and ironstone gravel, M<PL, stiff to very stiff
TP62	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-1.0	0.5-0.6 (DS)	(CH) Silty Sandy CLAY, high plasticity, pale grey and orange, with sandstone gravel and cobbles, M<PL, very stiff
	1.0-1.5	1.2-1.4 (DB)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, with cobbles and boulders, M<PL, very stiff to hard
TP63	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.9	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, stiff to very stiff
	0.9-1.5		(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, hard

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP64	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.8	0.5-0.6 (DS)	FILL: Silty Clay, medium plasticity, red and grey, with ironstone gravel, M<OMC, well compacted
	0.8-1.5		(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, hard
TP65	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.9	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, stiff to very stiff
	0.9-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff to hard
TP66	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-1.1	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, pale grey, with ironstone gravel, M<PL, very stiff to hard
	1.1-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, hard
TP67	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-1.5	0.5-0.6 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, pale grey and yellow brown, with ironstone gravel, M<PL, very stiff to hard
TP68	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone and ironstone gravel, M<PL, very stiff to hard
TP69	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with ironstone gravel, M<PL, very stiff to hard

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP70	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.2-0.7	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, stiff to very stiff
	0.7-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, very stiff
TP71	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, hard
TP72	0.0-0.2	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, M<OMC, well compacted
	0.2-0.9	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, stiff to very stiff
	0.9-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, hard
TP73	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, pale grey and pale brown, with ironstone gravel, M<PL, hard
TP74	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with ironstone gravel, M<PL, very stiff to hard
TP75	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-0.9	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, very stiff to hard
	0.9-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff

TABLE A

Job No: 8599/27
 Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP76	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.1	0.5-0.6 (DS)	(CI-CH) Silty CLAY, medium plasticity, pale grey, with ironstone gravel, M<PL, very stiff
	1.1-1.5		(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, very stiff
TP77	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-0.8	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey and yellow-brown, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff
	0.8-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff to hard
TP78	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-0.9	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff
	0.9-1.5		(CI-CH) Silty CLAY, medium to high plasticity, pale grey and yellow-brown, M<PL, very stiff to hard
TP79	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-0.7	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and pebbles, M<PL, very stiff
	0.7-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, hard
TP80	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-0.6	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown, with sandstone gravel, M<OMC, well compacted
	0.6-1.5		(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP81	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-0.5	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown, with sandstone gravel, M<OMC, well compacted
	0.5-1.5		(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, very stiff
TP82	0.0-0.6	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.6-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and pebbles, M<PL, very stiff
TP83	0.0-0.6	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.6-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, very stiff
TP84	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS) 0.5-0.8 (U50)	(CH) Silty CLAY, high plasticity, grey mottled red-yellow, M<PL, hard
TP85	0.0-0.5	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.5-1.5	0.5-0.6 (DS) 1.0-1.2 (DB)	(CI-CH) Silty CLAY, medium to high plasticity, orange and grey-brown, M<PL, very stiff
TP86	0.0-0.3	0.2-0.3 (DS)	TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.3-0.4		SILTSTONE, red and yellow-brown, extremely to distinctly weathered, very low to low strength, with ironstone layers
TP87	0.0-0.3	0.2-0.3 (DS)	TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.3-0.4		SILTSTONE, red and yellow-brown, extremely to distinctly weathered, very low to low strength, with ironstone layers

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP88	0.0-0.3	0.2-0.3 (DS)	TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.3-0.4		SILTSTONE, red and yellow-brown, extremely to distinctly weathered, very low to low strength, with ironstone layers
TP89	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, very stiff to hard
TP90	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey and yellow-red, with red staining ironstone gravel and cobbles, M<PL, very stiff
TP91	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-0.4		SILTSTONE, red and yellow-brown, extremely to distinctly weathered, very low to low strength, with ironstone layers
TP92	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, very stiff to hard
TP93	0.0-0.3	0.2-0.3 (DS)	TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, very stiff
TP94	0.0-0.3	0.2-0.3 (DS)	TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.3-0.4		SILTSTONE, red and yellow-brown, extremely to distinctly weathered, very low to low strength, with ironstone layers

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP95	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown mottled grey, with shale and ironstone gravel, M<OMC, well compacted
TP96	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown and red, with sandstone and ironstone gravel, M<OMC, well compacted
TP97	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.2	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown and red, M<OMC, well compacted
	1.2-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff to hard
TP98	0.0-0.4	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.4-1.2	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown, with shale gravel, M<OMC, well compacted
	1.2-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff to hard
TP99	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown mottled grey, with sandstone and ironstone gravel, M<OMC, well compacted
TP100	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.2	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown mottled grey, with sandstone and ironstone gravel, M<OMC, well compacted
	1.2-1.5		(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, very stiff to hard

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP101	0.0-0.3	0.2-0.3 (DS)	TOPSOIL: Silty Clay, low plasticity, dark brown, with grass roots
	0.3-0.7	0.5-0.6 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.7-1.5		(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, very stiff
TP102	0.0-0.5	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown, M<OMC, well compacted
	0.5-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and pebbles, M<PL, stiff to very stiff
TP103	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff
TP104	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff
TP105	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, with sandstone gravel, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel, boulders and cobbles, M<PL, very stiff
TP106	0.0-0.4	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.4-1.5	0.5-0.6 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, grey and red, with ironstone gravel, M<PL, stiff to very stiff
		0.6-0.9 (U50)	
TP107	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey and yellow, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff

TABLE A

Job No: 8599/27
 Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP108	0.0-0.4	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.4-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel, pebbles and cobbles, M<PL, stiff to very stiff
TP109	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PI, very stiff
		0.7-0.9 (DB)	
TP110	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PI, very stiff to hard
TP111	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, hard
TP112	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty Sandy CLAY, medium plasticity, pale grey and orange, with sandstone gravel, M<PL, very stiff
TP113	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff
TP114	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, brown and yellow, with pebbles and cobbles, M<PL, very stiff to hard

TABLE A

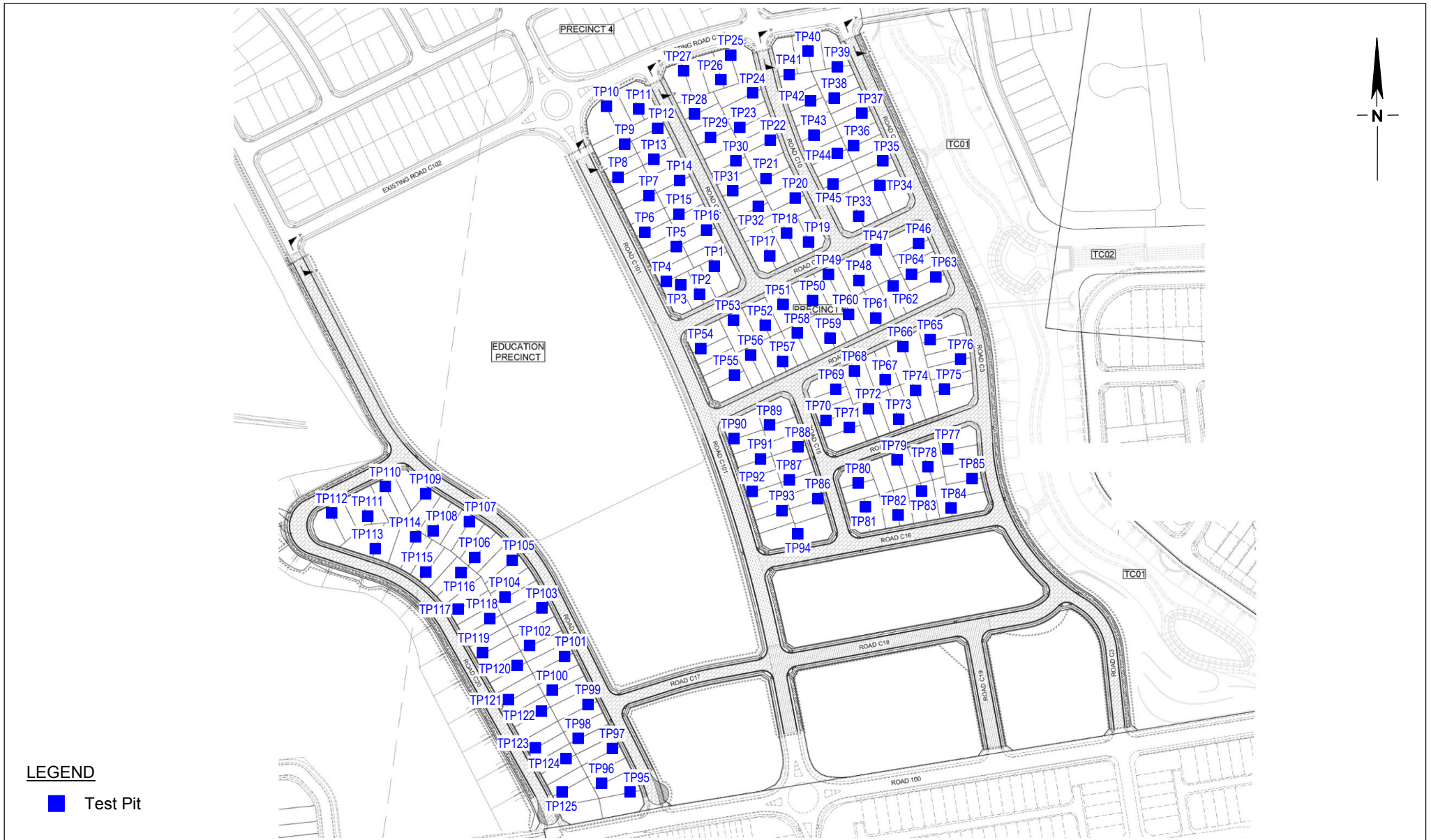
Job No: 8599/27
 Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP115	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, very stiff
TP116	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, red and brown-grey, with red staining ironstone gravel and cobbles, M<PL, very stiff
TP117	0.0-0.3	0.2 -0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CH) Silty CLAY, high plasticity, red mottled grey, traces of ironstone, M<PL, hard
		0.5-0.8 (U50)	
TP118	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, very stiff to hard
TP119	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff
TP120	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	(CI) Silty CLAY, medium plasticity, grey, with red staining ironstone gravel and cobbles, M<PL, stiff to very stiff
TP121	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-0.9	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown mottled grey, with cobbles, M<OMC, well compacted
	0.9-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff

TABLE A

Job No: 8599/27
Our Ref: 8599/27-AA

TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP122	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.2	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown mottled grey, M<OMC, well compacted
	1.2-1.5		(CH) Silty CLAY, high plasticity, pale grey and pale brown, M<PL, very stiff to hard
TP123	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown mottled grey, with pebbles, cobbles and ironstone gravel, M<OMC, well compacted
TP124	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown mottled grey, with pebbles, cobbles and ironstone gravel, M<OMC, well compacted
TP125	0.0-0.3	0.2-0.3 (DS)	FILL: Silty Sandy Clay, low plasticity, brown, M<OMC, well compacted
	0.3-1.5	0.5-0.6 (DS)	FILL: Silty Clay, low to medium plasticity, brown mottled grey, M<OMC, well compacted



LEGEND

■ Test Pit



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NOTES

1. Site features are indicative and are not to scale.
2. This drawing has been produced using a base plan provided by others to which additional information e.g test pits, borehole locations or notes have been added. Some or all of the plan may not be relevant at the time of producing this drawing

Daracon Contractors Pty Ltd
Residential Development
Woorong Park Precinct 6
Marsden Park

Test Pit Locations

Drawing No: 8599/27-AA1
Job No: 8599/27
Drawn By: MH
Date: 20 August 2019
Checked By: RR

File No: 8599-27
Layers: 0, AA1

APPENDIX B

SUMMARY OF SITE CLASSIFICATION

**TABLE B
SUMMARY OF SITE CLASSIFICATIONS**

**Newpark – Precinct 6
Elara Boulevard, Marsden Park**

Lot No	Site Class	Lot No	Site Class	Lot No	Site Class	Lot No	Site Class	Lot No	Site Class	Lot No	Site Class	Lot No	Site Class
6001	H1	6037	H1	6073	H1	6109	H1	6145	M	6181	M	6217	M
6002	H1	6038	H1	6074	H1	6110	H2	6146	M	6182	M	6218	M
6003	H2	6039	H1	6075	H1	6111	H2	6147	M	6183	S	6219	M
6004	H2	6040	H1	6076	H1	6112	H2	6148	H2	6184	S	6220	M
6005	M	6041	H2	6077	H1	6113	M	6149	H2	6185	M	6221	H2
6006	M	6042	H2	6078	H1	6114	M	6150	H1	6186	M	6222	H2
6007	M	6043	H2	6079	H1	6115	M	6151	H1	6187	M	6223	M
6008	M	6044	H2	6080	H1	6116	M	6152	H1	6188	M	6224	M
6009	M	6045	H2	6081	H1	6117	M	6153	H1	6189	M	6225	M
6010	M	6046	H1	6082	H1	6118	M	6154	H2	6190	M	6226	M
6011	M	6047	H1	6083	H1	6119	M	6155	H2	6191	M	6227	H1
6012	M	6048	H1	6084	H1	6120	M	6156	M	6192	M	6228	H1
6013	H1	6049	H1	6085	H1	6121	M	6157	M	6193	M	6229	M
6014	H1	6050	H1	6086	M	6122	M	6158	M	6194	M	6230	M
6015	H1	6051	H1	6087	M	6123	M	6159	M	6195	M	6231	M
6016	H1	6052	H1	6088	M	6124	M	6160	M	6196	M	6232	M
6017	H1	6053	H1	6089	M	6125	M	6161	M	6197	M	6233	M
6018	H1	6054	H2	6090	M	6126	M	6162	M	6198	M	6234	M
6019	M	6055	H2	6091	H1	6127	H1	6163	M	6199	M	6235	M
6020	M	6056	H2	6092	H1	6128	H1	6164	M	6200	M	6236	M
6021	M	6057	H2	6093	H1	6129	M	6165	M	6201	M	6237	M
6022	M	6058	H2	6094	H1	6130	M	6166	M	6202	M	6238	M
6023	M	6059	H2	6095	H1	6131	H1	6167	M	6203	M	6239	M
6024	M	6060	H1	6096	M	6132	H1	6168	M	6204	M	6240	M
6025	M	6061	H1	6097	M	6133	H1	6169	M	6205	H2	6241	M
6026	M	6062	H1	6098	H2	6134	H1	6170	M	6206	H2	6242	M
6027	M	6063	H2	6099	H2	6135	H2	6171	S	6207	M	6243	M
6028	M	6064	M	6100	H2	6136	H2	6172	S	6208	M	6244	M
6029	M	6065	M	6101	H2	6137	M	6173	S	6209	M	6245	M
6030	M	6066	M	6102	H2	6138	M	6174	S	6210	M	6246	M
6031	M	6067	M	6103	H2	6139	H2	6175	S	6211	M	6247	M
6032	H2	6068	H2	6104	H2	6140	H2	6176	S	6212	M	6248	M
6033	H2	6069	H2	6105	H2	6141	M	6177	S	6213	M		
6034	H2	6070	M	6106	H1	6142	M	6178	S	6214	M		
6035	M	6071	M	6107	H1	6143	M	6179	M	6215	M		
6036	M	6072	H1	6108	H1	6144	M	6180	M	6216	M		

S: Slightly Reactive, Free Surface Movement: 0-20mm
M: Moderately Reactive, Free Surface Movement: 20-40mm
H1: Highly Reactive, Free Surface Movement: 40-60mm
H2: Highly Reactive, Free Surface Movement: 60-75mm

APPENDIX C

LABORATORY TEST RESULTS

DARACON CONTRACTORS PTY LTD
184 ADDERLEY STREET WEST
AUBURN NSW 2144

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT WOORONG PARK MARSDEN PARK PRECINCT 6

TEST RESULTS - ATTERBERG LIMITS
Test Procedure AS1289 3.1.1, 3.2.1, 3.3.1, 3.4.1

Page 1 of 3

Job No:	8599/27	Tested By:	BC
Laboratory	Penrith	Checked By:	AK
Date Tested	19/08/2019		
Sample Identification	Test Pit 4	Test Pit 7	Test Pit 14
Laboratory Number	8599/27-2	8599/27-3	8599/27-5
Depth (m)	1.2 - 1.4	1.0 - 1.2	1.1 - 1.3
Test Description			
Liquid Limit (W _L)	37%	72%	47%
Plastic Limit (W _P)	18%	20%	15%
Plastic Index (I _P)	19%	52%	32%
Linear Shrinkage (LS)	8.5%	13.5%	8.5%
Mould Length (mm)	125	127	127
Sample History	Oven Dried Dry Sieved	Oven Dried Dry Sieved	Oven Dried Dry Sieved
Material Description			

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AUBURN NSW 2144

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT WOORONG PARK MARSDEN PARK PRECINCT 6

TEST RESULTS - ATTERBERG LIMITS
Test Procedure AS1289 3.1.1, 3.2.1, 3.3.1, 3.4.1

Page 2 of 3

Job No:	8599/27	Tested By:	BC
Laboratory	Penrith	Checked By:	AK
Date Tested	19/08/2019		
Sample Identification	Test Pit 28	Test Pit 42	Test Pit 47
Laboratory Number	8599/27-7	8599/27-10	8599/27-12
Depth (m)	0.6 - 0.9	1.0 - 1.2	1.1 - 1.3
Test Description			
Liquid Limit (W _L)	86%	71%	40%
Plastic Limit (W _P)	22%	21%	14%
Plastic Index (I _P)	64%	50%	26%
Linear Shrinkage (LS)	18.0%	18.5%	9.5%
Mould Length (mm)	125	125	125
Sample History	Oven Dried Dry Sieved	Oven Dried Dry Sieved	Oven Dried Dry Sieved
Material Description			

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TEST RESULTS - ATTERBERG LIMITS
Test Procedure AS1289 3.1.1, 3.2.1, 3.3.1, 3.4.1

Page 3 of 3

Job No:	8599/27	Tested By:	BC
Laboratory	Penrith	Checked By:	AK
Date Tested	19/08/2019		
Sample Identification	Test Pit 62	Test Pit 85	Test Pit 109
Laboratory Number	8599/27-14	8599/27-16	8599/27-18
Depth (m)	1.2 - 1.4	1.0 - 1.2	0.7 - 0.9
Test Description			
Liquid Limit (W _L)	75%	44%	58%
Plastic Limit (W _P)	22%	15%	17%
Plastic Index (I _P)	53%	29%	41%
Linear Shrinkage (LS)	19.0%	10.5%	11.5%
Mould Length (mm)	125	127	125
Sample History	Oven Dried Dry Sieved	Oven Dried Dry Sieved	Oven Dried Dry Sieved
Material Description			

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AUBURN NSW 2144

Job No: 8599/27
Tested By: BN
Checked By: AK
Date Tested: 12/08/2019
Laboratory: Penrith

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT WOORONG PARK MARSDEN PARK PRECINCT 6

TEST RESULTS - SHRINK / SWELL INDEX

Test Procedure: AS 1289 7.1.1				
Sample Identification	Test Pit 2	Test Pit 13	Test Pit 24	Test Pit 40
Depth (m)	0.5 - 0.8	0.2 - 0.5	0.7 - 1.0	0.6 - 0.9
Laboratory Number	8599/27-1	8599/27-4	8599/27-6	8599/27-9
Test Description				
Moisture Content				
Initial %	25.1	25.7	26.8	14.1
Final %	31.4	33.0	30.3	16.3
Swell %	5.4	6.3	2.2	4.9
Shrinkage %	7.2	1.8	3.9	2.8
Shrink/Swell Index %/pF	5.5	2.7	2.8	2.9
Material Description				

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184 ADDERLEY STREET WEST
AUBURN NSW 2144

Job No: 8599/27
Tested By: BN
Checked By: AK
Date Tested: 12/08/2019
Laboratory: Penrith

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT WOORONG PARK MARSDEN PARK PRECINCT 6

TEST RESULTS - SHRINK / SWELL INDEX

Test Procedure: AS 1289 7.1.1				
Sample Identification	Test Pit 45	Test Pit 59	Test Pit 84	Test Pit 106
Depth (m)	0.7 - 1.0	0.4 - 0.7	0.5 - 0.8	0.6 - 0.9
Laboratory Number	8599/27-11	8599/27-13	8599/27-15	8599/27-17
Test Description				
Moisture Content				
Initial %	23.9	18.7	24.7	12.4
Final %	27.5	32.0	40.1	14.5
Swell %	0.2	9.4	8.7	1.9
Shrinkage %	5.9	2.8	8.3	2.5
Shrink/Swell Index %/pF	3.3	4.2	7.0	1.9
Material Description				

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184 ADDERLEY STREET WEST
AUBURN NSW 2144

Job No: 8599/27
Tested By: BN
Checked By: AK
Date Tested: 12/08/2019
Laboratory: Penrith

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT WOORONG PARK MARSDEN PARK PRECINCT 6

TEST RESULTS - SHRINK / SWELL INDEX

Test Procedure: AS 1289 7.1.1				
Sample Identification	Test Pit 117			
Depth (m)	0.5 - 0.8			
Laboratory Number	8599/27-19			
Test Description				
Moisture Content				
Initial %	28.4			
Final %	33.1			
Swell %	4.1			
Shrinkage %	7.1			
Shrink/Swell Index %/pF	5.1			
Material Description				

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