

Job No: 8599/40
Our Ref: 8599/40-AA
5 March 2021

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

Attention: Mr J Letby

Dear Sir

re: **Newpark Precinct 5**
Abell Road, Marsden Park
Site Classification Report

Please find herewith our site classification report for the proposed dwellings to be located at the above subdivision. A total of 289 lots are covered in this report (Lots 5001 to 5289).

This report contains information on sub-surface conditions encountered at the site, together with site classification of the proposed lots 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



RAM RAVI-INDRAN
Geotechnical Engineer

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1.0 INTRODUCTION

This report provides results of a site classification investigation for the proposed dwellings to be located off Abell Road, Marsden Park – Newpark P5. A total of 289 lots are covered in this report (Lots 5001 to 5289).

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 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.

2.0 FIELD WORK

Field work for the investigation was carried out under the full time supervision of a Geotechnical Engineer on 1st, 3rd, 4th and 8th of February 2021 and consisted of excavation of 147 test pits (TP1 to TP147) to depths of the order of 1.5m, using a five tonne excavator. Test pits at shallow depths were terminated due to refusal on bedrock. The locations of the test pits are shown on the attached Drawing Nos 8599/40-AA1 and 8599/40-AA2 in Appendix A. A summary of the field data obtained is presented in Appendix A.

3.0 SITE CONDITIONS

3.1 Surface Conditions

The site (Newpark P5) is of irregular shape and is bounded by dense forest land to the south and other stages of the newly developed subdivision to all other sides. At the time of investigation, earthworks for the lots and construction of internal roads had been completed. The topography of the site is generally flat with crest towards the middle of the site sloping from the middle. The ground surface was generally void of vegetation.

3.2 Sub-Surface Conditions

Sub-surface 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	0.2-0.9	0.9-1.5	NE
TP2	1.5	0.0-0.2	0.2-1.5	NE	NE
TP3	1.5	0.0-0.2	0.2-1.5	NE	NE
TP4	1.5	0.0-0.2	0.2-1.5	NE	NE
TP5	1.5	0.0-0.1	0.1-1.5	NE	NE

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Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)	Bedrock (m)
TP6	1.2	0.0-0.1	0.1-1.2	NE	NE
TP7	1.5	0.0-0.2	0.2-1.5	NE	NE
TP8	1.5	0.0-0.2	0.2-1.5	NE	NE
TP9	1.1	0.0-0.2	0.2-1.1	NE	NE
TP10	1.5	0.0-0.2	0.2-1.5	NE	NE
TP11	1.5	0.0-0.2	0.2-1.5	NE	NE
TP12	1.5	0.0-0.1	0.1-1.5	NE	NE
TP13	1.5	0.0-0.2	0.2-1.5	NE	NE
TP14	1.5	0.0-0.1	0.1-1.5	NE	NE
TP15	1.5	0.0-0.1	0.1-1.5	NE	NE
TP16	1.5	0.0-0.2	0.2-1.5	NE	NE
TP17	1	0.0-0.2	0.2-1.0	NE	NE
TP18	1.5	0.0-0.2	0.2-1.5	NE	NE
TP19	1.5	0.0-0.1	0.1-1.5	NE	NE
TP20	1.5	0.0-0.1	0.1-1.5	NE	NE
TP21	1.5	0.0-0.1	0.1-1.5	NE	NE
TP22	1.5	0.0-0.2	0.2-1.5	NE	NE
TP23	1.5	0.0-0.2	0.2-1.5	NE	NE
TP24	1.5	0.0-0.2	0.2-1.5	NE	NE
TP25	1.5	0.0-0.2	0.2-1.5	NE	NE
TP26	1.5	0.0-0.2	0.2-1.5	NE	NE
TP27	1.5	0.0-0.2	0.2-1.5	NE	NE
TP28	1.5	0.0-0.2	0.2-1.5	NE	NE
TP29	1.5	0.0-0.2	0.2-1.5	NE	NE
TP30	1.5	0.0-0.2	0.2-1.5	NE	NE
TP31	1.5	0.0-0.2	0.2-1.5	NE	NE
TP32	1.5	0.0-0.2	0.2-1.5	NE	NE
TP33	1.5	0.0-0.2	0.2-1.5	NE	NE
TP34	1.5	0.0-0.2	0.2-1.5	NE	NE
TP35	1.5	0.0-0.2	0.2-1.5	NE	NE
TP36	1.5	0.0-0.2	0.2-1.5	NE	NE
TP37	1.5	0.0-0.2	0.2-1.5	NE	NE
TP38	1.5	0.0-0.2	0.2-1.5	NE	NE
TP39	1.5	0.0-0.2	0.2-1.5	NE	NE
TP40	1.5	0.0-0.2	0.2-1.5	NE	NE
TP41	1.5	0.0-0.2	0.2-1.5	NE	NE
TP42	1.5	0.0-0.2	0.2-1.5	NE	NE
TP43	1.5	0.0-0.2	0.2-1.5	NE	NE
TP44	1.5	0.0-0.2	0.2-1.5	NE	NE
TP45	1.5	0.0-0.2	0.2-1.5	NE	NE

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Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)	Bedrock (m)
TP46	1.5	0.0-0.2	0.2-1.5	NE	NE
TP47	1.5	0.0-0.2	0.2-1.5	NE	NE
TP48	1.5	0.0-0.2	0.2-1.5	NE	NE
TP49	1.5	0.0-0.2	0.2-1.5	NE	NE
TP50	1.5	0.0-0.2	0.2-1.5	NE	NE
TP51	1.5	0.0-0.2	0.2-1.5	NE	NE
TP52	1.5	0.0-0.2	0.2-1.5	NE	NE
TP53	1.5	0.0-0.2	0.2-1.5	NE	NE
TP54	1.5	0.0-0.2	0.2-1.5	NE	NE
TP55	1.5	0.0-0.2	0.2-1.5	NE	NE
TP56	1.5	0.0-0.2	0.2-1.5	NE	NE
TP57	1.5	0.0-0.2	0.2-1.5	NE	NE
TP58	1.5	0.0-0.2	0.2-1.5	NE	NE
TP59	1.5	0.0-0.2	0.2-1.5	NE	NE
TP60	1.5	0.0-0.2	0.2-1.5	NE	NE
TP61	1.5	0.0-0.2	0.2-1.5	NE	NE
TP62	1.5	0.0-0.2	0.2-1.5	NE	NE
TP63	1.5	0.0-0.2	0.2-1.5	NE	NE
TP64	1.5	0.0-0.2	0.2-1.5	NE	NE
TP65	1.5	0.0-0.2	0.2-1.5	NE	NE
TP66	1.5	0.0-0.2	0.2-1.5	NE	NE
TP67	1.5	0.0-0.2	0.2-1.5	NE	NE
TP68	1.5	0.0-0.2	0.2-1.5	NE	NE
TP69	1.5	0.0-0.2	0.2-1.5	NE	NE
TP70	1.5	0.0-0.2	0.2-1.5	NE	NE
TP71	1.5	0.0-0.2	0.2-1.5	NE	NE
TP72	1.5	0.0-0.2	0.2-1.5	NE	NE
TP73	1.5	0.0-0.2	0.2-1.5	NE	NE
TP74	1.5	0.0-0.2	0.2-1.5	NE	NE
TP75	1.5	0.0-0.2	0.2-1.5	NE	NE
TP76	1.5	0.0-0.2	0.2-1.5	NE	NE
TP77	1.5	0.0-0.2	0.2-1.5	NE	NE
TP78	1.5	0.0-0.2	0.2-1.5	NE	NE
TP79	1.5	0.0-0.2	0.2-1.5	NE	NE
TP80	1.5	0.0-0.2	0.2-1.5	NE	NE
TP81	1.5	0.0-0.2	0.2-1.5	NE	NE
TP82	1.5	0.0-0.2	0.2-1.5	NE	NE
TP83	1.5	0.0-0.2	0.2-1.5	NE	NE
TP84	1.5	0.0-0.2	0.2-1.5	NE	NE
TP85	1.5	0.0-0.2	0.2-1.5	NE	NE

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Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)	Bedrock (m)
TP86	1.5	0.0-0.2	0.2-1.5	NE	NE
TP87	1.5	0.0-0.2	0.2-1.5	NE	NE
TP88	1.5	0.0-0.2	0.2-1.5	NE	NE
TP89	1.5	0.0-0.2	0.2-1.5	NE	NE
TP90	1.5	0.0-0.2	0.2-1.1	1.1-1.5	NE
TP91	1.5	0.0-0.2	NE	0.2-1.5	NE
TP92	1.5	0.0-0.2	NE	0.2-1.5	NE
TP93	1.5	0.0-0.2	NE	0.2-1.5	NE
TP94	0.6	0.0-0.2	0.2-0.5	NE	NE
TP95	1.5	0.0-0.2	NE	0.2-1.5	NE
TP96	1.5	0.0-0.2	0.2-1.1	1.1-1.5	NE
TP97	1.5	0.0-0.2	0.2-1.5	NE	NE
TP98	1.5	0.0-0.2	0.2-1.5	NE	NE
TP99	1.5	0.0-0.2	0.2-1.5	NE	NE
TP100	1.5	0.0-0.2	0.2-1.5	NE	NE
TP101	1.5	0.0-0.2	0.2-1.5	NE	NE
TP102	1.5	0.0-0.2	0.2-1.5	NE	NE
TP103	1.5	0.0-0.2	0.2-1.5	NE	NE
TP104	1.5	0.0-0.2	0.2-1.5	NE	NE
TP105	1.5	0.0-0.2	0.2-0.5	0.5-1.5	NE
TP106	1.5	0.0-0.2	0.2-1.5	NE	NE
TP107	1.5	0.0-0.2	0.2-1.5	NE	NE
TP108	0.6	0.0-0.2	0.2-0.5	NE	0.5-0.6
TP109	0.4	0.0-0.2	0.2-0.3	NE	0.3-0.4
TP110	0.5	0.0-0.2	0.2-0.5	NE	NE
TP111	1.5	0.0-0.2	NE	0.2-1.5	NE
TP112	1.5	0.0-0.2	0.2-0.7	0.7-1.5	NE
TP113	1.5	0.0-0.2	0.2-1.5	NE	NE
TP114	1.5	0.0-0.2	0.2-1.5	NE	NE
TP115	1.5	0.0-0.2	0.2-1.1	1.1-1.5	NE
TP116	1.5	0.0-0.2	0.2-1.5	NE	NE
TP117	1.5	0.0-0.2	0.2-1.5	NE	NE
TP118	1.5	0.0-0.2	0.2-1.3	1.3-1.4	1.4-1.5
TP119	1.5	0.0-0.2	0.2-1.3	1.3-1.4	1.4-1.5
TP120	1.5	0.0-0.2	0.2-1.3	1.3-1.4	1.4-1.5
TP121	1.4	0.0-0.2	0.2-1.3	NE	1.3-1.4
TP122	1	0.0-0.2	0.2-0.9	NE	0.9-1.0
TP123	1.1	0.0-0.2	0.2-1.0	NE	1.0-1.1
TP124	1.5	0.0-0.2	0.2-1.5	NE	NE
TP125	1.5	0.0-0.2	0.2-1.5	NE	NE

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Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)	Bedrock (m)
TP126	1.5	0.0-0.2	0.2-1.5	NE	NE
TP127	1.5	0.0-0.2	0.2-1.5	NE	NE
TP128	1.5	0.0-0.2	0.2-1.5	NE	NE
TP129	1.5	0.0-0.2	0.2-1.5	NE	NE
TP130	1.5	0.0-0.2	0.2-1.5	NE	NE
TP131	1.5	0.0-0.2	0.2-1.5	NE	NE
TP132	1.5	0.0-0.2	0.2-1.5	NE	NE
TP133	1.5	0.0-0.2	0.2-1.5	NE	NE
TP134	1.5	0.0-0.2	0.2-1.5	NE	NE
TP135	1.5	0.0-0.2	0.2-1.5	NE	NE
TP136	1.5	0.0-0.2	0.2-1.5	NE	NE
TP137	1.5	0.0-0.2	0.2-1.5	NE	NE
TP138	1.5	0.0-0.2	0.2-1.5	NE	NE
TP139	1.5	0.0-0.2	0.2-1.5	NE	NE
TP140	1.5	0.0-0.2	0.2-1.5	NE	NE
TP141	1.5	0.0-0.2	0.2-1.5	NE	NE
TP142	1.5	0.0-0.2	0.2-1.5	NE	NE
TP143	1.5	0.0-0.2	0.2-1.5	NE	NE
TP144	1.5	0.0-0.2	0.2-1.5	NE	NE
TP145	1.5	0.0-0.2	0.2-1.5	NE	NE
TP146	1.5	0.0-0.2	0.2-1.5	NE	NE
TP147	1.5	0.0-0.2	0.2-1.5	NE	NE

NE: Not encountered to the termination depth

The test pit investigation revealed the following generalised sub-surface profile:

Fill	FILL: Silty Clay, low plasticity, brown FILL: Silt, low plasticity, light grey FILL: Silty Clay, low to medium plasticity, brown-orange FILL: Gravel, medium grain, dark grey FILL: Silty Sand, medium grain, orange FILL: Silty Clay, medium plasticity, mottled brown-orange and grey FILL: Silty Clay, low plasticity, mottled brown-orange and grey FILL: Silty Clay, low plasticity, grey FILL: Silty Clay, high plasticity, brown FILL: Silty Clay, low to medium plasticity, brown-orange FILL: Gravely Silty Cobble, coarse grain, brown
Natural	(CL) Silty CLAY, low plasticity, brown-orange (CI-CH) Silty CLAY, medium to high plasticity, brown-orange (CH) Silty CLAY, high plasticity, grey-orange (CL) Sandy CLAY, low plasticity, brown
Bedrock	SANDSTONE, yellow-white, low strength, distinctly weathered SILTSTONE, light grey, low strength, slightly weathered

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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.

4.0 LABORATORY TESTING

One undisturbed U₅₀ sample was recovered from the site. This sample was tested to determine shrink/swell index values. Additionally, ten (10) disturbed samples were recovered to determine Atterberg limits. The tests were conducted as per relevant Australian Standards and the results are summarised below and detailed in the attached test certificates.

Table 2: Summary of test results

TP	Depth (m)	Material Description	Liquid Limit	Plasticity Index	Linear Shrinkage	Shrink/Swell Index
TP10	0.5-0.8	FILL: Silty Clay, low to medium plasticity, brown-orange, traces of gravel	42%	23%	10.5%	-
TP21	0.5-0.8	FILL: Cobbly Gravel, medium grain, dark grey	84%	57%	15.0%	-
TP47	0.4-0.7	FILL: Silty Clay, low plasticity, mottled brown-orange and grey, with cobbles	38%	21%	9.8%	-
TP70	0.6-0.9	FILL: Silty Clay, medium plasticity, mottled brown-orange and grey	43%	26%	12.8%	-
TP75	0.8-1.1	FILL: Silty Clay, high plasticity, grey, with gravels	75%	52%	16.6%	-
TP89	1.1-1.4	FILL: Silty Clay, high plasticity, light grey, with gravels	84%	60%	17.7%	-
TP91	0.5-0.8	(CH) Silty CLAY, high plasticity, grey-orange	-	-	-	2.2%/pF
TP105	0.5-0.8	(CI-CH) Silty CLAY, medium to high plasticity, brown-orange	77%	16%	19.9%	-
TP123	0.2-0.5	FILL: Silty Clay, high plasticity, brown	85%	4%	20.0%	-
TP139	0.2-0.5	FILL: Silty Clay, medium to high plasticity, brown-orange	57%	36%	15.0%	-

5.0 DISCUSSION & RECOMMENDATIONS

5.1 Assessment of Fill

Fill was encountered in a number of test pits excavated across the site. It should be noted that a number of field density tests were conducted by Geotech Testing Pty Ltd during the fill placement and the results are provided in our summary report (Our Ref: 8599/35-AA dated 25 January 2020). Based on our inspection of the fill during the investigation and the above field density tests results, it is our assessment that the fill is "Controlled Fill".

5.2 Site Classification

Based on the field and laboratory results, the site classification to AS2870-2011 "Residential slabs & footings", for the proposed lots are summarised in Appendix B of this report.

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It is recommended that footings for the proposed dwellings are founded on the same stratum, below any topsoil or deleterious material, to minimise the potential for differential movement.

The above recommendations are applicable to the Lots at the date of completion of the investigation, being 8th of February 2021 and are made on the following assumptions:

1. The construction requirements of AS2870-2011 must be followed.
2. The recommendations for site maintenance set out in Appendix B of AS2870 are followed.
3. The performance expectations set out in Appendix C of AS2870 are acceptable.

It is recommended that house owners are made aware of the recommendations given by the CSIRO publication, "Guide to Home Owners on Foundation Maintenance and Footing Performance".

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APPENDIX A

TABLE A SUMMARY OF TEST PITS

**DRAWING NOS 8599/40-AA1 and 8599/40-AA2
(*Test Pit Location Plan*)**

TABLE A

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP1	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, traces of gravel, M<OMC
	0.2-0.7	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, traces of cobble, well compacted, M<OMC
	0.7-0.9	0.7-0.8 (DS)	FILL: Silt, low plasticity, light grey, well compacted, M<OMC
	0.9-1.5		(CL) Silty CLAY, low plasticity, brown-orange, stiff to very stiff, M<PL
TP2	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, traces of gravel, M<OMC
	0.2-0.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, traces of gravel, well compacted, M<OMC
	0.5-1.5		FILL: Silty Clay, low plasticity, brown, with cobble, traces of boulder, well compacted, M<OMC
TP3	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, traces of gravel, M<OMC
	0.2-0.4	0.2-0.3 (DS)	FILL: Silt, low plasticity, light grey, with gravel, well compacted, M<OMC
	0.4-1.5	0.9-1.0 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
TP4	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2-1.5	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, with boulders, well compacted, Dry
TP5	0.0-0.1		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.1-0.2		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	0.2-1.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
		0.8-0.9 (DS)	

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP6	0.0-0.1		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.1-0.2		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	0.2-1.0	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
		0.8-0.9 (DS)	
TP7	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.5	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
		0.8-0.9 (DS)	
TP8	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2-1.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
		0.8-0.9 (DS)	
TP9	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2-0.9	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
		0.8-0.9 (DS)	
	0.9-1.1		FILL: Silty Clay, low plasticity, brown, with boulders, well compacted, M<OMC, refusal

TABLE A

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP10	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.0	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, traces of gravel, well compacted, M<OMC
		0.5-0.8 (DS)	
		0.8-0.9 (DS)	
	1.0-1.2		FILL: Cobbles and Gravel, medium grain, dark grey , well compacted, Dry
	1.2-1.5		FILL: Silty Clay, low to medium plasticity, brown-orange, traces of gravel, well compacted, M<OMC
TP11	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
	0.5-0.6		FILL: Silt, low plasticity, light grey, well compacted, M<OMC
	0.6-1.2	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
	1.2-1.5		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
TP12	0.0-0.1		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.1-0.3	0.2-0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
	0.3-1.5	0.8-0.9 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
TP13	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, traces of gravel, well compacted, M<OMC
		0.8-0.9 (DS)	

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP14	0.0-0.1		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.1-0.2		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	0.2-0.6	0.2-0.3 (DS)	FILL: Silty Sand, medium grain, orange, well compacted, M<OMC
	0.6-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
TP15	0.0-0.1		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.1-0.2		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	0.2-1.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
TP16	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2-1.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
TP17	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2-0.9	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, traces of cobble, well compacted, M<OMC
		0.8-0.9 (DS)	
	0.9-1.0		FILL: Silty Clay, low plasticity, brown, with boulders, well compacted, M<OMC, refusal
TP18	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.4	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	0.4-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP19	0.0-0.1		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.1-0.2		FILL: Cobbles and Gravel, medium grain, dark grey, with boulders, well compacted, Dry, refusal
TP20	0.0-0.1		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.1-0.4	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, traces of boulder, well compacted, Dry
	0.4-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, traces of cobble, well compacted, M<OMC
TP21	0.0-0.1		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.1-0.4	0.1-0.4 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
	0.4-1.5	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
		0.8-0.9 (DS)	
TP22	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2-0.3	0.2-0.3 (DS)	FILL: Silt, low plasticity, light grey, well compacted, M<OMC
	0.3-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
TP23	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2-0.4	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	0.4-0.5		FILL: Silt, low plasticity, light grey, well compacted, M<OMC
	0.5-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP24	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.4	0.2-0.3 (DS)	FILL: Silt, low plasticity, light grey, well compacted, M<OMC
	0.4-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, with cobbles, well compacted, M<OMC
TP25	0.0-0.2		FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2-0.3	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	0.3-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, with gravel, well compacted, M<OMC
TP26	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.5	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, traces of boulders, well compacted, Dry
		0.8-0.9 (DS)	
TP27	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.4-0.5		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	0.5-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
TP28	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.0	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
		0.8-0.9 (DS)	
	1.0-1.5		FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP29	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.8	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
	0.8-0.9	0.8-0.9 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	0.9-1.5		FILL: Silty Clay, low plasticity, brown, with cobble, well compacted, M<OMC
TP30	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.3	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	0.3-1.0	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with cobble, well compacted, M<OMC
	1.0-1.1		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
	1.1-1.5		FILL: Silty Clay, low plasticity, brown, with cobble, well compacted, M<OMC
TP31	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.0	0.2-0.3 (DS) 0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, traces of cobble, well compacted, M<OMC
	1.0-1.5		FILL: Silty Clay, low plasticity, brown, with gravel, traces of boulder, well compacted, M<OMC
TP32	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.5	0.2-0.3 (DS) 0.8-0.8 (DS)	FILL: Silty Clay, low plasticity, brown, traces of cobble, well compacted, M<OMC

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP33	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
	0.5-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, traces of cobble, well compacted, M<OMC
TP34	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.5	0.2-0.3 (DS)	FILL: Silty Clay, medium plasticity, mottled brown-orange and grey, well compacted, M<OMC
		0.8-0.9 (DS)	
TP35	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with cobbles, with gravels, well compacted, M<OMC
		0.8-0.9 (DS)	
TP36	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with cobble, well compacted, M<OMC
	0.5-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, traces of boulder, well compacted, M<OMC
TP37	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.5	0.2-0.3 (DS)	FILL: Silty Clay, medium plasticity, mottled brown-orange and grey, with ironstone fragments, well compacted, M<OMC
		0.8-0.9 (DS)	

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP38	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.9	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, traces of cobble, well compacted, M<OMC
		0.8-0.9 (DS)	
	0.9-1.5		FILL: Silty Clay, low plasticity, brown, with gravel, traces of boulder, well compacted, M<OMC
TP39	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.8	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, traces of cobble, well compacted, M<OMC
	0.8-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, traces of boulder, well compacted, M<OMC
TP40	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2-0.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, traces of boulder, well compacted, M<OMC
	0.5-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
TP41	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2-1.0	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with cobbles, well compacted, M<OMC
		0.8-0.9 (DS)	
	1.0-1.5		FILL: Silty Clay, low plasticity, brown, with cobbles, traces of boulder, well compacted, M<OMC
TP42	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.4-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, with cobble, traces of boulder, well compacted, M<OMC

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP43	0.0-0.2	0.2-0.3 (DS)	TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
TP44	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.0	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, mottled brown-orange and grey, well compacted, M<OMC
		0.8-0.9 (DS)	
	1.0-1.5		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
TP45	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.0	0.2-0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, Dry
		0.8-0.9 (DS)	
	1.0-1.5		FILL: Silty Clay, low plasticity, brown, with cobbles, well compacted, M<OMC
TP46	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.6	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.6-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
TP47	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, mottled brown-orange and grey, with cobbles, well compacted, M<OMC
		0.4-0.7 (DS)	
		0.8-0.9 (DS)	

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP48	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2-1.0	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, mottled brown-orange and grey, well compacted, M<OMC
		0.8-0.9 (DS)	
	1.0-1.5		FILL: Silty Clay, low plasticity, grey, well compacted, M<OMC
TP49	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.0	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
		0.8-0.9 (DS)	
	1.0-1.5		FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
TP50	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.0	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
		0.8-0.9 (DS)	
	1.0-1.5		FILL: Silty Clay, low plasticity, grey, trace of ironstone gravels, well compacted, M<OMC
TP51	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, trace of boulder, well compacted, M<OMC
	0.4-1.5	0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
TP52	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-1.5	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with cobbles, well compacted, M<OMC
		0.8-0.9 (DS)	

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP53	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2-1.5	0.2-0.3 (DS) 0.8-0.9 (DS)	FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
TP54	0.0-0.2		TOPSOIL: Silty Clay, low plasticity, brown, M<OMC
	0.2-0.4	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
	0.4-1.5	0.8-0.9	FILL: Silty Clay, low plasticity, brown, with cobbles, well compacted, M<OMC

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP53	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP54	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.4	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
	0.4 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with cobbles, well compacted, M<OMC
TP55	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP56	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, trace of cobbles, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP57	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
	0.5 – 1.5	0.8 – 0.8 (DS)	FILL: Silty Clay, low plasticity, mottled brown-orange and grey, with cobbles, well compacted, M<OMC

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TP58	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.0	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
		0.8 – 0.9 (DS)	
	1.0 – 1.5		FILL: Silty Clay, low plasticity, grey, with gravel, well compacted, M<OMC
TP59	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
		0.8 – 0.8 (DS)	
TP60	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.6	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.6 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, grey, trace of cobbles, well compacted, M<OMC
TP61	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.4	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.4 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
TP62	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.4	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, dry
	0.4 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP63	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, with gravel, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP64	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.6	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.6 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
TP65	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, mottled brown-orange and grey, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP66	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, mottled brown-orange and grey, with gravel, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP67	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.0	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, wet
		0.8 – 0.9 (DS)	
	1.0 – 1.5		FILL: Cobbles and Gravel, medium grain, dark grey, traces of boulder, well compacted, wet

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TP68	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.6	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, mottled brown-orange and grey, with gravels, well compacted, M<OMC
	0.6 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, traces of cobble, well compacted, M<OMC
TP69	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.6	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, mottled brown-orange and grey, well compacted, M<OMC
	0.6 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
TP70	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.6	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, M≤OMC
	0.6 – 1.5	0.6 – 0.9 (DS) 0.8 – 0.9 (DS)	FILL: Silty Clay, medium plasticity, mottled brown-orange and grey, M≤OMC
TP71	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.5		FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
	0.5 – 1.5		FILL: Silty Clay, low plasticity, mottled brown-orange and grey, trace of cobble, well compacted, M<OMC
TP72	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.4	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
	0.4 – 0.5		FILL: Silty Clay, low plasticity, mottled brown-orange and grey, M≤OMC
	0.5 – 1.5	0.8 – 0.9 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, with boulder, well compacted, dry

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP73	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, trace of boulders, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP74	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, trace of boulders, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP75	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.8	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
	0.8 – 1.1	0.8 – 0.9 (DS)	FILL: Silty Clay, high plasticity, grey, with gravels, well compacted, M<OMC
		0.8 – 1.1 (DS)	
	1.1 – 1.5		FILL: Silty Clay, low plasticity, mottled brown-orange and grey, well compacted, M<OMC
TP76	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, with gravel, trace of ironstone, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP77	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.6	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, with cobbles, well compacted, M<OMC
	0.6 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP78	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, traces of gravel, well compacted, M<OMC
	0.5 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, mottled brown-orange and grey, trace of gravel, well compacted, M<OMC
TP79	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, traces of cobbles, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP80	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, trace of cobbles, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP81	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.6	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, with gravel, well compacted, M<OMC
	0.6 – 1.0	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, grey, with boulder, well compacted, M<OMC
TP82	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, with gravels, well compacted, M<OMC
		0.8 – 0.9 (DS)	

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP83	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, trace of boulders, traces of cobbles, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP84	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M≤OMC
		0.8 – 0.9 (DS)	
TP85	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M≤OMC
		0.8 – 0.9 (DS)	
TP86	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, with gravel, well compacted, M≤OMC
		0.8 – 0.9 (DS)	
TP87	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.8		FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
	0.8 – 1.5		FILL: Silty Clay, low plasticity, brown, with gravels, with cobbles, well compacted, M<OMC

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP88	0.0 – 0.2		FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP89	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, high plasticity, light grey, with gravels, well compacted, M<OMC
		1.1 – 1.4 (DS)	
		0.8 – 0.9 (DS)	
TP90	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.1	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
		0.8 – 0.9 (DS)	
	1.1 – 1.5	1.1 – 1.4 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, brown-orange, very stiff, M<PL
TP91	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.5	0.2 – 0.3 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, brown-orange, very stiff, M≤PL
	0.5 – 1.5	0.5 – 0.8 (U50)	(CH) Silty CLAY, high plasticity, grey-orange, stiff to very stiff, M≤PL
		0.8 – 0.9 (DS)	

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP92	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	(CH) Silty CLAY, high plasticity, grey-orange, very stiff, M<PL
		0.8 – 0.9 (DS)	
TP93	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.5	0.2 – 0.3 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, brown-orange, very stiff
	0.5 – 1.5	0.8 – 0.9 (DS)	(CH) Silty CLAY, high plasticity, grey-orange, very stiff
TP94	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.5 – 0.6		SILTSTONE, low strength, grey, fresh refusal
TP95	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, brown-orange, stiff to very stiff, M≤PL
		0.8 – 0.9 (DS)	
TP96	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.1	0.2 – 0.3 (DS)	FILL: Silty Clay, high plasticity, brown, well compacted, M<OMC
		0.8 – 0.9 (DS)	
	1.1 – 1.5		(CI-CH) Silty CLAY, medium to high plasticity, brown-orange, stiff to very stiff, M≤PL

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP97	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, high plasticity, brown, with gravel, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP98	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.0	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP99	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with ironstone gravels, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP100	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, grey, traces of ironstone traces of boulder and cobble, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP101	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, traces of boulder, well compacted, M<OMC
		0.8 – 0.9 (DS)	

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP102	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5		FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
TP103	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP104	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, traces boulders, well compacted, M<OMC
		0.8 – 0.9 (DS)	

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP105	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.4	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.4 – 0.5		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, dry
	0.5 – 1.5	0.5 – 0.8 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, brown-orange, very stiff, M<PL
		0.8 – 0.9 (DS)	
TP106	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
		0.8 – 0.9	
TP107	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 1.5	0.2 – 0.3	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
		0.8 – 0.9	
TP108	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.5 – 0.6		SILTSTONE, light grey, low strength, slightly weathered, refusal
TP109	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.2 – 0.3	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.3 – 0.4		SILTSTONE, light grey, low strength, slightly weathered, refusal

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP110	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.5 – 0.7		FILL: Gravely Silty Cobble, coarse grain, brown, well compacted, dry, refusal
TP111	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	(CL) Silty CLAY, low plasticity, brown-orange, stiff, M<PL
		0.8 – 0.9 (DS)	
TP112	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.7	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.7 – 1.5	0.8 – 0.9 (DS)	(CL) Sandy CLAY, low plasticity, brown, firm to stiff, M<PL
TP113	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP114	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5		FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
TP115	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.1	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with cobble, traces of boulder, well compacted, M<OMC
		0.8 – 0.9 (DS)	
	1.1 – 1.5		(CI-CH) Silty CLAY, medium to high plasticity, brown-orange, stiff to very stiff, M<PL

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP116	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.3	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.3 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
TP117	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP118	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.3	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.3 – 1.3	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	1.3 – 1.4		(CL) Sandy CLAY, low plasticity, brown, firm, with ironstone fragments, M<PL
	1.4 – 1.5		SANDSTONE, yellow-white, low strength, distinctly weathered
TP119	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.3	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.3 – 1.3	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	1.3 – 1.4		(CL) Sandy CLAY, low plasticity, brown, firm, M<PL
	1.4 – 1.5		SANDSTONE, yellow-white, low strength, distinctly weathered

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP120	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.3	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, traces of boulder, traces of cobble, well compacted, M<OMC
		0.8 – 0.9 (DS)	
	1.3 – 1.4		(CL) Sandy CLAY, low plasticity, brown, firm, M<PL
	1.4 – 1.5		SANDSTONE, yellow-white, low strength, distinctly weathered
TP121	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.3	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
		0.8 – 0.9 (DS)	
	1.3 – 1.4		SANDSTONE, yellow-white, low strength, distinctly weathered
TP122	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.9	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
	0.9 – 1.0		SANDSTONE, yellow-white, low strength, distinctly weathered
TP123	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.5	0.2 – 0.3 (DS)	FILL: Silty Clay, high plasticity, brown, well compacted, M<OMC
		0.2 – 0.5 (DS)	
	0.5 – 1.0	0.8 – 0.9 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
	1.0 – 1.1		SANDSTONE, yellow-white, low strength, distinctly weathered

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP124	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.9	0.2 – 0.5 (DS)	FILL: Silty Clay, high plasticity, brown, traces of cobble, well compacted, M<OMC
		0.8 – 0.9 (DS)	
	0.9 – 1.5		FILL: Silty Clay, low to medium plasticity, brown-orange, with cobble, well compacted, M<OMC
TP125	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.6	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
	0.6 – 0.8		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.8 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
TP126	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.4	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.4 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
TP127	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP128	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
		0.8 – 0.9 (DS)	

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TP129	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP130	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, with gravel, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP131	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, with gravel, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP132	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.3	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
	0.3 – 0.5		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.5 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, with gravels, traces of cobble, traces of boulder, well compacted, M<OMC
TP133	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.4	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.4 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC

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TP134	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.3	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.3 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted
TP135	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.3	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.3 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
TP136	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.3	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.3 – 0.9	0.8 – 0.9 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
	0.9 – 1.0		FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	1.0 – 1.5		FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
TP137	0.0 – 0.2		FILL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP138	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with gravel, well compacted, M<OMC
		0.8 – 0.9 (DS)	

TABLE A

Job No: 8599/40
Our Ref: 8599/40-AA

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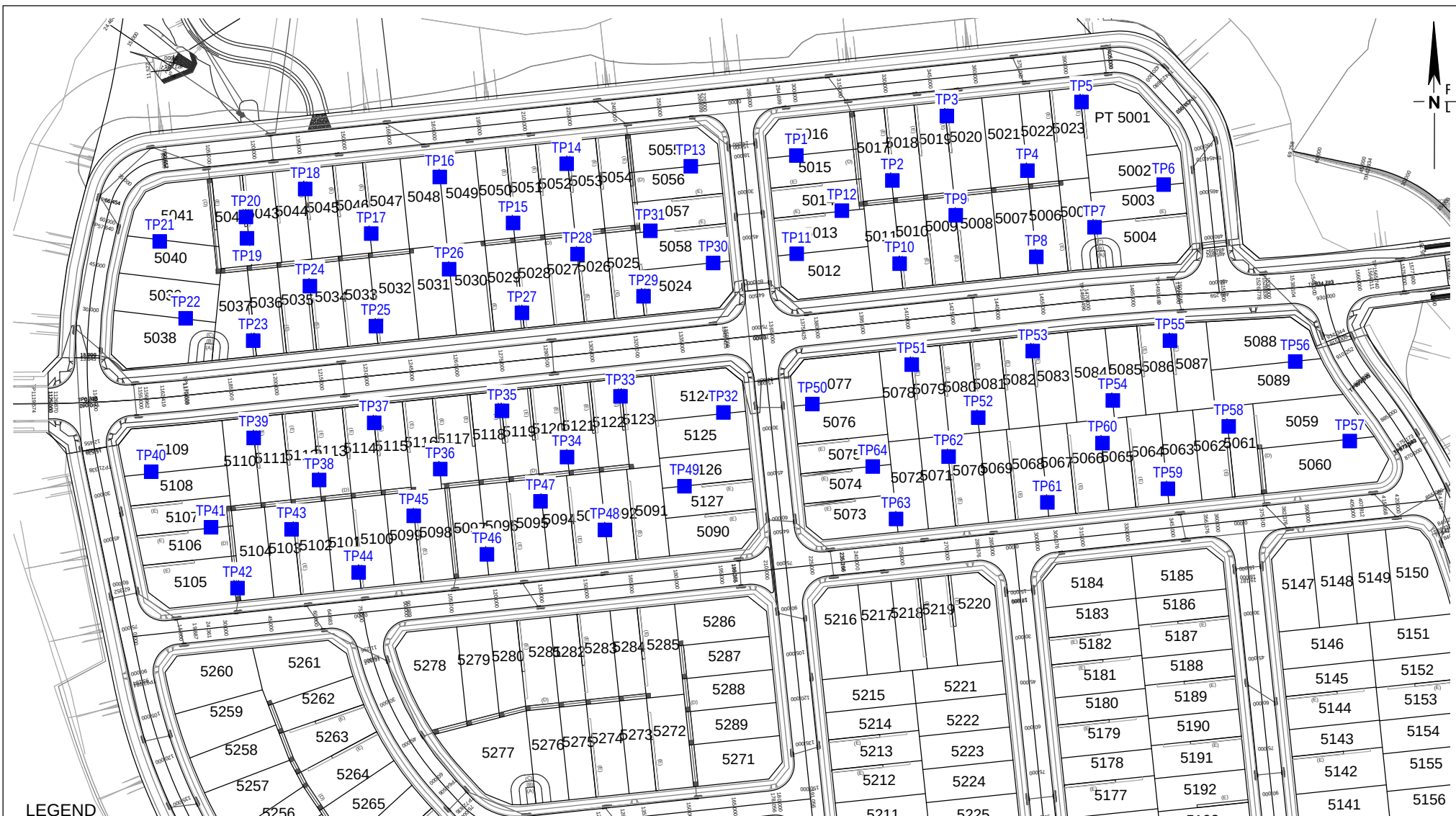
TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP139	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.5	0.2 – 0.3 (DS)	FILL: Silty Clay, medium to high plasticity, brown-orange, well compacted, M<OMC
		0.2 – 0.5 (DS)	
	0.5 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, grey, well compacted, M<OMC
TP140	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP141	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.4	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
	0.4 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
TP142	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low plasticity, brown, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP143	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, with gravels, well compacted, M<OMC
		0.8 – 0.9 (DS)	

TABLE A

Job No: 8599/40
Our Ref: 8599/40-AA

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TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP144	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.4	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey, well compacted, M<OMC
	0.4 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
TP145	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.3	0.2 – 0.3 (DS)	FILL: Cobbles and Gravel, medium grain, dark grey
	0.3 – 1.5	0.8 – 0.9 (DS)	FILL: Silty Clay, low plasticity, brown, with gravels, well compacted, M<OMC
TP146	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 1.5	0.2 – 0.3 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC
		0.8 – 0.9 (DS)	
TP147	0.0 – 0.2		TOPSOIL: Silty Clay, low plasticity, brown
	0.2 – 0.7	0.2-0.3 (DS)	FILL: Silty Clay, low plasticity, brown, with ironstone fragments, well compacted, M<OMC
	0.7 – 1.5	0.8-0.9 (DS)	FILL: Silty Clay, low to medium plasticity, brown-orange, well compacted, M<OMC



LEGEND

■ Test Pit

GEOTECH
TESTING PTY LTD®

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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 P5 Newpark
Marsden Park

Test Pit Locations

Drawing No: 8599/40-AA1
Job No: 8599/40
Drawn By: MH
Date: 9 February 2021
Checked By: RR

File No: 8599-40
Layers: 0, AA1

APPENDIX B

SUMMARY OF SITE CLASSIFICATIONS

Job No: 8599/40
Our Ref: 8599/40-AA

TABLE B

SUMMARY OF SITE CLASSIFICATIONS

**Newpark Precinct 5
Off Abell Road, Marsden Park**

Lot	Site Classification	Lot	Site Classification	Lot	Site Classification	Lot	Site Classification
5001	M	5033	M	5065	M	5097	M
5002	M	5034	M	5066	M	5098	M
5003	M	5035	M	5067	M	5099	M
5004	M	5036	M	5068	M	5100	M
5005	M	5037	M	5069	M	5101	M
5006	M	5038	M	5070	M	5102	M
5007	M	5039	M	5071	M	5103	M
5008	M	5040	H1	5072	M	5104	M
5009	M	5041	H1	5073	M	5105	M
5010	M	5042	M	5074	M	5106	M
5011	M	5043	M	5075	M	5107	M
5012	M	5044	M	5076	M	5108	M
5013	M	5045	M	5077	M	5109	M
5014	M	5046	M	5078	M	5110	M
5015	M	5047	M	5079	M	5111	M
5016	M	5048	M	5080	M	5112	M
5017	M	5049	M	5081	M	5113	M
5018	M	5050	M	5082	M	5114	M
5019	M	5051	M	5083	M	5115	M
5020	M	5052	M	5084	M	5116	M
5021	H1	5053	M	5085	M	5117	M
5022	H1	5054	M	5086	M	5118	M
5023	M	5055	M	5087	M	5119	M
5024	M	5056	M	5088	M	5120	M
5025	M	5057	M	5089	M	5121	M
5026	M	5058	M	5090	M	5122	M
5027	M	5059	M	5091	M	5123	M
5028	M	5060	M	5092	M	5124	M
5029	M	5061	M	5093	M	5125	M
5030	M	5062	M	5094	M	5126	M
5031	M	5063	M	5095	M	5127	M
5032	M	5064	M	5096	M	5128	M

Job No: 8599/40
Our Ref: 8599/40-AA

Lot	Site Classification	Lot	Site Classification	Lot	Site Classification	Lot	Site Classification
5129	M	5163	M	5197	M	5231	M
5130	M	5164	M	5198	M	5232	M
5131	M	5165	H1	5199	M	5233	M
5132	M	5166	H1	5200	M	5234	M
5133	M	5167	H1	5201	M	5235	M
5134	M	5168	H1	5202	M	5236	M
5135	M	5169	M	5203	M	5237	M
5136	M	5170	M	5204	M	5238	M
5137	M	5171	H1	5205	M	5239	M
5138	M	5172	H1	5206	M	5240	M
5139	M	5173	H1	5207	M	5241	M
5140	M	5174	H1	5208	M	5242	H1
5141	M	5175	H1	5209	M	5243	H1
5142	M	5176	H1	5210	M	5244	M
5143	M	5177	M	5211	M	5245	M
5144	M	5178	M	5212	M	5246	M
5145	M	5179	M	5213	H1	5247	M
5146	M	5180	M	5214	H1	5248	M
5147	M	5181	M	5215	M	5249	M
5148	M	5182	M	5216	M	5250	M
5149	M	5183	M	5217	M	5251	M
5150	M	5184	M	5218	M	5252	M
5151	M	5185	M	5219	M	5253	M
5152	M	5186	M	5220	M	5254	M
5153	M	5187	M	5221	M	5255	M
5154	M	5188	M	5222	M	5256	M
5155	M	5189	M	5223	M	5257	M
5156	M	5190	M	5224	M	5258	M
5157	M	5191	M	5225	M	5259	M
5158	M	5192	M	5226	M	5260	M
5159	M	5193	M	5227	M	5261	M
5160	M	5194	M	5228	M	5262	M
5161	M	5195	M	5229	M	5263	M
5162	M	5196	M	5230	M	5264	M

Job No: 8599/40
Our Ref: 8599/40-AA

Lot	Site Classification
5265	M
5266	M
5267	M
5268	M
5269	M
5270	M
5271	M
5272	M
5273	M
5274	M
5275	M
5276	M
5277	M
5278	M
5279	M
5280	M
5281	M
5282	M
5283	M
5284	M
5285	M
5286	M
5287	M
5288	M
5289	M

M: Moderately Reactive, Free Surface Movement: 20-40mm

H1: Highly Reactive, Free Surface Movement: 40-60mm

APPENDIX C

LABORATORY TEST RESULTS



DARACON CONTRACTORS PTY LTD
184 ADDERLEY STREET WEST
AUBURN NSW 2144

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT WOORONG PARK MARSDEN PARK STAGE P5 NEWPARK

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

Page 1 of 1

Job No:	8599/40	Tested By:	BG
Laboratory	Penrith	Checked By:	AK
Date Tested	05/02/2021		
Sample Identification	Test Pit 10	Test Pit 21	
Laboratory Number	8599/40-1	8599/40-2	
Depth (m)	0.5 - 0.8	0.5 - 0.8	
Test Description			
Liquid Limit (W_L)	42%	84%	
Plastic Limit (W_P)	19%	27%	
Plastic Index (I_P)	23%	57%	
Linear Shrinkage (LS)	10.5%	15.0%	
Mould Length (mm)	125	125	
Sample History	Oven Dried Dry Sieved	Oven Dried Dry Sieved	
Material Description	FILL: Silty Clay, medium plasticity, brown, trace of fine to medium gravel	FILL: Silty Clay, high plasticity, red-brown	

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Nata Accreditation Number 2734
Corporate Site Number 2727

Accredited for compliance with ISO/IEC 17025 - Testing.

A Kench

5/03/2021

Approved Signatory

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DARACON CONTRACTORS PTY LTD
184 ADDERLEY STREET WEST
AUBURN NSW 2144

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT WOORONG PARK MARSDEN PARK STAGE P5 NEWPARK

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

Page 1 of 1

Job No:	8599/40	Tested By:	BG
Laboratory	Penrith	Checked By:	HW
Date Tested	08/02/2021		
Sample Identification	Test Pit 123	Test Pit 139	
Laboratory Number	8599/40-3	8599/40-4	
Depth (m)	0.2 - 0.5	0.2 - 0.5	
Test Description			
Liquid Limit (W_L)	85%	57%	
Plastic Limit (W_P)	21%	21%	
Plastic Index (I_P)	4%	36%	
Linear Shrinkage (LS)	20.0%	15.0%	
Mould Length (mm)	127	125	
Sample History	Oven Dried Dry Sieved	Oven Dried Dry Sieved	
Material Description	FILL: silty CLAY, high plasticity, brown-orange	FILL: silty CLAY, high plasticity, brown with some fine to medium gravel	

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AUBURN NSW 2144

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT WOORONG PARK MARSDEN PARK STAGE P5 NEWPARK

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

Page 1 of 2

Job No:	8599/40	Tested By:	BG
Laboratory	Penrith	Checked By:	HW
Date Tested	27-Feb-21		
Sample Identification	Test Pit 47	Test Pit 70	Test Pit 75
Laboratory Number	8599/40-5	8599/40-6	8599/40-7
Depth (m)	0.4 - 0.7	0.6 - 0.9	0.8 - 1.1
Test Description			
Liquid Limit (W _L)	38%	43%	75%
Plastic Limit (W _P)	17%	17%	23%
Plastic Index (I _P)	21%	26%	52%
Linear Shrinkage (LS)	9.8%	12.8%	16.6%
Mould Length (mm)	127	127	127
Sample History			
	Oven Dried Dry Sieved	Oven Dried Dry Sieved	Oven Dried Dry Sieved
Material Description			
	FILL: Silty Clay, medium plasticity, brown orange and grey with gravel	FILL: Silty Clay, medium plasticity, brown-orange and grey	FILL: Silty Clay. Low plasticity, grey with gravel

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SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT WOORONG PARK MARSDEN PARK STAGE P5 NEWPARK

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

Page 2 of 2

Job No:	8599/40	Tested By:	BG
Laboratory	Penrith	Checked By:	HW
Date Tested	27-Feb-21		
Sample Identification	Test Pit 90	Test Pit 105	
Laboratory Number	8599/40-8	8599/40-10	
Depth (m)	1.1 - 1.4	0.5 - 0.8	
Test Description			
Liquid Limit (W _L)	84%	77%	
Plastic Limit (W _P)	24%	25%	
Plastic Index (I _P)	60%	16%	
Linear Shrinkage (LS)	17.7%	19.9%	
Mould Length (mm)	127	127	
Sample History			
	Oven Dried Dry Sieved	Oven Dried Dry Sieved	
Material Description			
	(CI-CH) Silty CLAY, medium to high plasticity, brown-orange	FILL: Silty Clay, medium plasticity, brown with gravel	

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DARACON CONTRACTORS PTY LTD
184 ADDERLEY STREET WEST
AUBURN NSW 2144

Job No: 8599/40
Tested By: HW
Checked By: HW
Date Tested: 25/02/2021
Laboratory: Penrith

SITE CLASSIFICATION
RESIDENTIAL DEVELOPMENT WOORONG PARK MARSDEN PARK STAGE P5 NEWPARK

TEST RESULTS - SHRINK / SWELL INDEX

Page 1 of 1

Test Procedure: AS 1289 7.1.1				
Sample Identification	Test Pit 91			
Depth (m)	0.5 - 0.8			
Laboratory Number	8599/40-9			
Test Description				
Moisture Content				
Initial %	17.7			
Final %	20.6			
Swell %	Nil			
Shrinkage %	4.0			
Shrink/Swell Index %/pF	2.2			
Material Description	FILL: silty CLAY, medium plasticity, brown with some fine to medium gravel			

Form No R007 Version 12 06/13



NATA Accreditation Number 2734
Corporate Site Number 2727

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