



Job No: 8599/13
Our Ref: 8599/13-AA
29 March 2018

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

Attention: Mr S Wong

Dear Sir

Re: **Newpark Precinct 2, Marsden Park
Post Earthworks Salinity Assessment Report (Stages 1 & 2)**

At your request, Geotech Testing Pty Ltd conducted a salinity assessment at the above site after completion of earthworks. A total of 383 lots are covered in this report (Lot 2001 to 2354 in Stage 1 & 2401 to 2429 in Stage 2).

Field Work

Field work for the investigation was carried out between 2nd and 9th March 2018, under the supervision of a Geotechnical Engineer from the company and consisted of excavating one hundred and eighty nine (189) test pits (TP1 to TP189), using an excavator. The test pits were terminated at a depth of 1.5m or refusal on fill boulder. Samples were collected from the test pits for visual inspection and laboratory testing. The approximate locations of the test pits are shown on the attached Drawing Nos 8599/8-AA1 and 8599/8-AA2. The brief description of materials encountered in the test pits are provided in the attached Table A.

Site Conditions

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

Sub-surface Conditions

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

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

8559/13-AA

Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Groundwater Condition

Groundwater was not observed in the test pits during the short time 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.

Exposure Classification

Laboratory Testing

During field work, a total of 353 soil samples were recovered for chemical testing in the NATA accredited laboratory of SGS to assess salinity (Electrical Conductivity (EC)) and acidity (pH) properties. The test results are summarised in Table 1 along with Exposure Classifications.

Table 1: Laboratory Test Results

Location	Depth (m)	EC (µS/cm)	pH	MF	EC _e (dS/m)	Exposure Classification
TP1	0-0.15	150	6.5	8	1.2	A1
TP1	1.3-1.5	110	5.2	8	0.9	A2
TP2	0.2-0.4	140	6.6	8	1.1	A1
TP2	1.1-1.3	98	6.2	8	0.8	A1
TP3	0.4-0.5	260	7.5	8	2.1	A1
TP3	0.9-1.1	150	8.3	9	1.4	A1
TP4	0-0.15	94	6.4	8	0.8	A1
TP4	1.3-1.5	140	5.6	8	1.1	A1
TP5	0.2-0.4	65	5.5	9	0.6	A1
TP5	1.3-1.5	87	5.7	9	0.8	A1
TP6	0.4-0.6	310	6.9	8	2.5	A1
TP6	0.9-1.1	59	5.6	9	0.5	A1
TP7	0-0.2	110	6.1	8	0.9	A1
TP7	1.3-1.5	370	8.0	8	3.0	A1
TP8	0.2-0.4	160	7.1	9	1.4	A1
TP8	1.1-1.3	290	6.1	9	2.6	A1
TP9	0.4-0.6	99	8.7	9	0.9	A1
TP9	1-1.2	330	6.1	9	3.0	A1
TP10	0-0.15	190	6.2	8	1.5	A1
TP10	1.3-1.5	620	5.5	9	5.6	A2
TP11	0.2-0.4	240	6.4	8	1.9	A1
TP11	1.1-1.3	310	5.4	9	2.8	A2
TP12	0.4-0.6	320	6.6	8	2.6	A1
TP12	0.9-1.0	370	5.9	9	3.3	A1
TP13	0-0.2	430	7.9	8	3.4	A1
TP13	1.3-1.5	340	6.5	9	3.1	A1
TP14	0.2-0.4	320	7.6	8	2.6	A1
TP14	1.1-1.3	230	6.1	9	2.1	A1
TP15	0.4-0.6	170	6.0	8	1.4	A1
TP15	0.9-1.1	150	6.5	9	1.4	A1

8559/13-AA

Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Location	Depth (m)	EC ($\mu\text{S/cm}$)	pH	MF	EC _e (dS/m)	Exposure Classification
TP16	0-0.3	190	6.0	8	1.5	A1
TP16	1.3-1.5	150	7.4	9	1.4	A1
TP17	0.5-0.7	310	5.4	8	2.5	A2
TP17	1.3-1.5	240	9.5	9	2.2	A1
TP18	0.4-0.6	140	6.6	8	1.1	A1
TP18	1-1.2	370	5.0	9	3.3	A2
TP19	0-0.15	120	5.9	8	1.0	A1
TP19	1.3-1.5	250	7.4	9	2.3	A1
TP20	0.2-0.4	110	6.4	8	0.9	A1
TP20	1.1-1.3	110	5.8	9	1.0	A1
TP21	0.4-0.6	190	6.2	8	1.5	A1
TP21	0.9-1.1	270	7.6	9	2.4	A1
TP22	0-0.2	110	6.3	8	0.9	A1
TP22	1.3-1.5	110	6.2	9	1.0	A1
TP23	0.2-0.4	100	5.9	8	0.8	A1
TP23	1.1-1.3	210	8.3	9	1.9	A1
TP24	0.4-0.6	140	7.0	8	1.1	A1
TP24	0.9-1.1	280	7.5	9	2.5	A1
TP25	0-0.2	120	5.9	8	1.0	A1
TP25	1.3-1.5	510	5.8	9	4.6	A2
TP26	0.25-0.55	140	6.5	9	1.3	A1
TP26	1.1-1.3	83	6.1	9	0.7	A1
TP27	0.4-0.6	100	6.6	8	0.8	A1
TP27	0.9-1.1	95	6.3	9	0.9	A1
TP28	0-0.2	160	6.2	8	1.3	A1
TP28	1.3-1.5	95	6.7	8	0.8	A1
TP29	0.2-0.4	100	6.3	8	0.8	A1
TP29	1.1-1.3	170	5.9	9	1.5	A1
TP30	0.4-0.6	250	6.0	8	2.0	A1
TP30	0.9-1.1	270	5.9	9	2.4	A1
TP31	0-0.2	520	9.3	8	4.2	A2
PT31	1.3-1.5	580	8.2	8	4.6	A2
TP32	0.2-0.4	170	8.9	9	1.5	A1
TP32	1.1-1.3	390	5.9	8	3.1	A1
TP33	0.4-0.6	160	6.5	8	1.3	A1
TP33	0.9-1.1	160	7.2	9	1.4	A1
TP34	0-0.2	140	6.7	8	1.1	A1
TP34	1.3-1.5	140	6.7	9	1.3	A1
TP35	0.2-0.4	160	5.7	9	1.4	A1
TP35	1.1-1.3	100	6.3	9	0.9	A1

8559/13-AA
Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Location	Depth (m)	EC ($\mu\text{S/cm}$)	pH	MF	EC _e (dS/m)	Exposure Classification
TP36	0.4-0.6	210	7.2	9	1.9	A1
TP36	0.9-1.1	220	5.7	9	2.0	A1
TP37	0-0.2	230	6.2	8	1.8	A1
TP37	1.3-1.5	130	6.3	8	1.0	A1
TP38	0.25-0.45	160	5.5	9	1.4	A1
TP38	1.1-1.3	540	5.4	8	4.3	A2
TP39	0.4-0.6	360	5.6	9	3.2	A1
TP39	0.9-1.1	580	5.9	9	5.2	A2
TP40	0-0.15	220	5.8	8	1.8	A1
TP40	1.3-1.5	410	4.9	9	3.7	A2
TP41	0.2-0.4	300	5.3	9	2.7	A2
TP41	1.1-1.3	450	4.9	9	4.1	A2
TP42	0.4-0.6	350	5.4	9	3.2	A2
TP42	0.9-1.1	250	5.3	7	1.8	A2
TP43	0.1-0.3	410	5.3	9	3.7	A2
TP43	1.3-1.5	160	6.2	9	1.4	A1
TP44	0.2-0.4	200	5.5	9	1.8	A1
TP44	1.1-1.3	410	5.3	9	3.7	A2
TP45	0.4-0.6	270	5.8	9	2.4	A1
TP45	0.9-1.1	250	5.1	9	2.3	A2
TP46	0.15-0.3	170	5.5	9	1.5	A1
TP46	1.3-1.5	420	5.2	7	2.9	A2
TP47	0.2-0.4	270	5.5	9	2.4	A1
TP47	1.1-1.3	20	6.3	9	0.2	A1
TP48	0.4-0.6	530	7.2	7	3.7	A1
TP48	0.9-1.1	350	5.2	8	2.8	A2
TP49	0-0.2	120	6.1	8	1.0	A1
TP49	1.3-1.5	270	5.5	7	1.9	A1
TP50	0.2-0.4	340	5.4	9	3.1	A2
TP50	1.1-1.3	330	7.6	8	2.6	A1
TP51	0.4-0.6	290	5.8	9	2.6	A1
TP52	0-0.15	170	6.3	8	1.4	A1
TP52	1.2-1.4	150	6.5	9	1.4	A1
TP53	0.2-0.4	110	5.2	9	1.0	A2
TP53	1.1-1.3	140	6.6	9	1.3	A1
TP54	0.4-0.6	98	6.2	9	0.9	A1
TP54	0.9-1.1	260	7.5	9	2.3	A1
TP55	0-0.2	150	8.3	8	1.2	A1
TP55	1.3-1.5	94	6.4	7	0.7	A1
TP56	0.2-0.4	140	5.6	7	1.0	A1

8559/13-AA

Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Location	Depth (m)	EC ($\mu\text{S/cm}$)	pH	MF	EC _e (dS/m)	Exposure Classification
TP56	1.1-1.3	65	5.5	9	0.6	A1
TP57	0.4-0.6	87	5.7	9	0.8	A1
TP57	0.9-1.1	310	6.9	7	2.2	A1
TP58	0-0.2	59	5.6	8	0.5	A1
TP58	1.3-1.5	110	6.1	9	1.0	A1
TP59	0.3-0.5	370	8.0	9	3.3	A1
TP60	0.2-0.4	160	7.1	9	1.4	A1
TP61	0.4-0.69	290	6.1	9	2.6	A1
TP61	1.25-1.45	99	8.7	9	0.9	A1
TP62	0-0.2	330	6.1	8	2.6	A1
TP62	1.3-1.5	190	6.2	9	1.7	A1
TP63	0.2-0.4	620	5.5	9	5.6	A2
TP64	0.4-0.6	240	6.4	9	2.2	A1
TP64	0.9-1.1	310	5.4	9	2.8	A2
TP65	0-0.2	320	6.6	8	2.6	A1
TP65	1.3-1.5	370	5.9	9	3.3	A1
TP66	0.2-0.4	430	7.9	9	3.9	A1
TP66	1.1-1.3	340	6.5	9	3.1	A1
TP67	0.4-0.6	320	7.6	9	2.9	A1
TP67	0.9-1.1	230	6.1	9	2.1	A1
TP68	0-0.2	170	6.0	9	1.5	A1
TP68	1.3-1.5	150	6.5	9	1.4	A1
TP69	0.2-0.4	190	6.0	9	1.7	A1
TP69	1.1-1.3	150	7.4	9	1.4	A1
TP70	0.4-0.6	310	5.4	8	2.5	A2
TP71	0-0.2	240	9.5	9	2.2	A1
TP72	0.2-0.4	140	6.6	9	1.3	A1
TP72	1.1-1.3	370	5.0	9	3.3	A2
TP73	0.2-0.4	120	5.9	8	1.0	A1
TP73	1.1-1.3	250	7.4	7	1.8	A1
TP74	0.3-0.5	110	6.4	9	1.0	A1
TP75	0-0.2	110	5.8	8	0.9	A1
TP75	1.3-1.5	190	6.2	9	1.7	A1
TP76	0.2-0.4	270	7.6	9	2.4	A1
TP77	0.4-0.6	110	6.3	9	1.0	A1
TP78	0-0.15	110	6.2	8	0.9	A1
TP78	1.3-1.5	100	5.9	9	0.9	A1
TP79	0.2-0.4	210	8.3	9	1.9	A1
TP79	1.1-1.3	140	7.0	9	1.3	A1
TP80	0.4-0.6	280	7.5	9	2.5	A1

8559/13-AA
Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Location	Depth (m)	EC ($\mu\text{S/cm}$)	pH	MF	EC _e (dS/m)	Exposure Classification
TP80	0.9-1.1	680	5.3	9	6.1	A2
TP81	0-0.15	500	5.3	8	4.0	A2
TP81	1.3-1.5	710	5.3	9	6.4	A2
TP82	0.2-0.4	660	5.4	9	5.9	A2
TP82	1.1-1.3	710	5.2	9	6.4	A2
TP83	0.4-0.6	470	5.4	9	4.2	A2
TP84	0.5-0.7	390	5.0	9	3.5	A2
TP85	0.1-0.3	230	5.4	7	1.6	A2
TP86	0.2-0.4	400	5.6	9	3.6	A1
TP86	0.9-1.1	460	5.5	9	4.1	A2
TP87	0.4-0.6	510	5.6	9	4.6	A2
TP87	0.9-1.1	410	5.1	9	3.7	A2
TP88	0.4-0.6	130	5.6	9	1.2	A1
TP89	0-0.1	200	5.8	8	1.6	A1
TP89	1.3-1.5	190	5.5	9	1.7	A1
TP90	0.2-0.4	720	8.2	9	6.5	A2
TP90	1.1-1.3	480	5.3	9	4.3	A2
TP91	0.4-0.6	850	5.2	9	7.7	A2
TP91	0.9-1.1	390	7.7	7	2.7	A1
TP92	0.2-0.4	410	5.6	9	3.7	A1
TP93	0.2-0.4	650	8.4	9	5.9	A2
TP94	0-0.1	310	5.2	8	2.5	A2
TP94	1.3-1.5	130	5.6	9	1.2	A1
TP95	0.2-0.4	140	6.4	9	1.3	A1
TP95	1.1-1.3	260	5.3	7	1.8	A2
TP96	0.4-0.6	280	5.2	7	2.0	A2
TP96	0.9-1.1	400	5.2	9	3.6	A2
TP97	0.4-0.6	30	6.2	9	0.3	A1
TP98	0.4-0.6	190	5.9	9	1.7	A1
TP99	0.2-0.4	93	6.0	9	0.8	A1
TP100	0.2-0.4	540	5.7	9	4.9	A2
TP100	1.3-1.5	670	5.0	7	4.7	A2
TP101	0.4-0.6	630	5.2	9	5.7	A2
TP102	0.5-0.7	280	5.3	9	2.5	A2
TP103	0.2-0.4	180	5.4	9	1.6	A2
TP104	0-0.1	590	4.7	8	4.7	A2
TP104	1.3-1.5	360	5.2	9	3.2	A2
TP105	0.2-0.4	610	5.0	9	5.5	A2
TP105	0.9-1.1	490	5.2	9	4.4	A2
TP106	0-0.1	150	5.4	8	1.2	A2

8559/13-AA

Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Location	Depth (m)	EC ($\mu\text{S}/\text{cm}$)	pH	MF	EC _e (dS/m)	Exposure Classification
TP106	1.3-1.5	84	5.3	7	0.6	A2
TP107	0.2-0.4	230	4.8	9	2.1	A2
TP107	1.1-1.3	240	5.5	7	1.7	A1
TP108	0.4-0.6	310	5.0	9	2.8	A2
TP108	0.9-1.1	150	5.6	9	1.4	A1
TP109	0-0.1	920	4.7	8	7.4	A2
TP109	1.3-1.5	430	5.0	9	3.9	A2
TP110	0.2-0.4	500	5.0	9	4.5	A2
TP110	1.1-1.3	580	5.2	9	5.2	A2
TP111	0.4-0.6	340	4.9	9	3.1	A2
TP111	0.9-1.1	140	5.5	9	1.3	A1
TP112	0.25-0.45	330	5.1	9	3.0	A2
TP112	1.1-1.3	510	5.0	9	4.6	A2
TP113	0.4-0.6	640	4.8	9	5.8	A2
TP113	0.9-1.1	720	4.7	9	6.5	A2
TP114	0.4-0.6	820	4.9	9	7.4	A2
TP115	0.25-0.45	260	6.8	9	2.3	A1
TP115	0.9-1.1	520	4.8	9	4.7	A2
TP116	0.4-0.6	460	5.1	9	4.1	A2
TP116	0.9-1.1	660	5.0	9	5.9	A2
TP117	0-0.2	270	5.4	8	2.2	A2
TP117	1.3-1.5	210	5.6	9	1.9	A1
TP118	0.2-0.4	900	5.4	9	8.1	B1
TP118	1.1-1.3	840	5.1	9	7.6	A2
TP119	0.4-0.6	910	4.7	9	8.2	B1
TP119	0.9-1.1	940	4.7	9	8.5	B1
TP120	0.4-0.6	250	5.6	9	2.3	A1
TP121	0-0.2	200	6.5	8	1.6	A1
TP121	1.3-1.5	65	5.7	9	0.6	A1
TP122	0.2-0.4	590	5.7	9	5.3	A2
TP122	1.1-1.3	580	5.3	9	5.2	A2
TP123	0.4-0.6	320	5.1	7	2.2	A2
TP123	0.9-1.1	360	4.8	7	2.5	A2
TP124	0-0.2	300	5.4	8	2.4	A2
TP124	1.3-1.5	180	5.4	7	1.3	A2
TP125	0.2-0.4	540	5.5	9	4.9	A2
TP125	1.1-1.3	450	6.0	7	3.2	A1
TP126	0.4-0.6	640	4.8	9	5.8	A2
TP126	0.9-1.1	800	5.0	9	7.2	A2
TP127	0-0.2	420	4.9	8	3.4	A2

8559/13-AA
Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Location	Depth (m)	EC ($\mu\text{S}/\text{cm}$)	pH	MF	EC _e (dS/m)	Exposure Classification
TP127	1.3-1.5	260	5.5	8	2.1	A1
TP128	0.2-0.4	430	4.6	9	3.9	A2
TP128	1.0-1.2	480	4.6	7	3.4	A2
TP129	0.4-0.6	240	5.6	9	2.2	A1
TP129	0.9-1.1	220	5.1	9	2.0	A2
TP130	0-0.2	300	5.4	8	2.4	A2
TP130	1.3-1.5	460	5.3	8	3.7	A2
TP131	0.2-0.4	300	5.9	9	2.7	A1
TP131	1.1-1.3	280	5.2	8	2.2	A2
TP132	0.4-0.6	310	5.7	9	2.8	A1
TP132	0.9-1.1	360	5.9	9	3.2	A1
TP133	0-0.2	210	6.2	8	1.7	A1
TP133	1.3-1.5	230	6.3	8	1.8	A1
TP134	0.2-0.4	250	7.8	9	2.3	A1
TP134	1.1-1.3	320	5.1	7	2.2	A2
TP135	0.4-0.6	660	7.4	9	5.9	A2
TP135	0.9-1.1	680	5.3	8	5.4	A2
TP136	0-0.2	280	5.7	9	2.5	A1
TP136	1.3-1.5	300	5.3	8	2.4	A2
TP137	0.2-0.4	370	6.4	7	2.6	A1
TP137	1.1-1.3	380	6.3	9	3.4	A1
TP138	0.4-0.6	320	5.2	7	2.2	A2
TP138	0.9-1.1	320	5.0	9	2.9	A2
TP139	0-0.2	330	5.0	9	3.0	A2
TP139	1.3-1.5	290	4.8	8	2.3	A2
TP140	0.2-0.4	170	5.5	9	1.5	A1
TP140	1.1-1.3	200	5.8	8	1.6	A1
TP141	0.4-0.6	170	5.3	9	1.5	A2
TP141	0.9-1.1	190	5.6	8	1.5	A1
TP142	0-0.2	170	5.4	8	1.4	A2
TP142	1.3-1.5	250	5.0	7	1.8	A2
TP143	0-0.2	140	5.7	8	1.1	A1
TP143	1.3-1.5	83	6.5	9	0.7	A1
TP144	0.2-0.4	330	5.5	9	3.0	A1
TP144	1.1-1.3	310	5.0	7	2.2	A2
TP145	0.4-0.6	360	5.2	9	3.2	A2
TP145	0.9-1.1	330	5.5	7	2.3	A1
TP146	0-0.2	410	5.3	9	3.7	A2
TP146	1.3-1.5	750	4.8	7	5.3	A2
TP147	0.2-0.4	230	5.4	9	2.1	A2

8559/13-AA

Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Location	Depth (m)	EC (μ S/cm)	pH	MF	EC _e (dS/m)	Exposure Classification
TP147	1.1-1.3	530	5.2	7	3.7	A2
TP148	0.4-0.6	250	5.5	9	2.3	A1
TP148	0.9-1.1	290	5.2	7	2.0	A2
TP149	0-0.2	280	5.7	9	2.5	A1
TP149	1.3-1.5	430	5.3	7	3.0	A2
TP150	0.2-0.4	340	5.7	9	3.1	A1
TP150	1.1-1.3	560	5.2	7	3.9	A2
TP151	0.3-0.5	490	5.2	9	4.4	A2
TP151	0.9-1.1	560	5.0	7	3.9	A2
TP152	0-0.2	240	5.4	9	2.2	A2
TP152	1.3-1.5	730	5.4	7	5.1	A2
TP153	0.2-0.4	410	5.8	9	3.7	A1
TP153	1.1-1.3	480	5.4	7	3.4	A2
TP154	0.3-0.5	260	5.5	9	2.3	A1
TP154	0.9-1.1	240	5.3	7	1.7	A2
TP155	0-0.2	220	6.0	9	2.0	A1
TP155	1.3-1.5	130	6.1	9	1.2	A1
TP156	0.2-0.4	130	6.2	9	1.2	A1
TP156	1.1-1.3	100	5.8	9	0.9	A1
TP157	0.4-0.6	140	5.5	9	1.3	A1
TP157	0.9-1.1	120	5.6	9	1.1	A1
TP158	0-0.2	85	5.7	9	0.8	A1
TP158	1.3-1.5	95	6.1	9	0.9	A1
TP159	0.2-0.4	240	6.0	9	2.2	A1
TP159	1.1-1.3	190	5.4	9	1.7	A2
TP160	0.4-0.6	110	6.4	9	1.0	A1
TP160	0.9-1.1	130	6.3	9	1.2	A1
TP161	0-0.2	140	6.7	9	1.3	A1
TP161	1.3-1.5	150	5.4	9	1.4	A2
TP162	0.2-0.3	99	5.3	8	0.8	A2
TP162	1.1-1.3	86	5.0	9	0.8	A2
TP163	0-0.2	250	7.5	8	2.0	A1
TP163	1.3-1.5	110	5.6	9	1.0	A1
TP164	0.1-0.3	89	5.9	9	0.8	A1
TP164	0.7-0.9	120	6.0	9	1.1	A1
TP165	0.4-0.6	230	5.6	9	2.1	A1
TP165	0.9-1.1	110	6.0	9	1.0	A1
TP166	0-0.2	270	5.3	9	2.4	A2
TP166	1.3-1.5	170	8.7	7	1.2	A1
TP167	0-0.2	45	5.8	9	0.4	A1

8559/13-AA
Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Location	Depth (m)	EC ($\mu\text{S/cm}$)	pH	MF	EC _e (dS/m)	Exposure Classification
TP167	1.3-1.5	51	5.7	9	0.5	A1
TP168	0.2-0.4	320	5.9	9	2.9	A1
TP168	1.1-1.3	70	6.0	9	0.6	A1
TP169	0.4-0.6	600	7.8	9	5.4	A2
TP169	0.9-1.1	440	5.3	9	4.0	A2
TP170	0-0.2	200	5.5	9	1.8	A1
TP170	1.3-1.5	330	8.6	9	3.0	A1
TP171	0.2-0.4	53	5.3	9	0.5	A2
TP171	1.1-1.3	77	6.5	9	0.7	A1
TP172	0.4-0.6	110	5.1	9	1.0	A2
TP172	0.9-1.1	75	6.5	9	0.7	A1
TP173	0-0.2	380	9.4	9	3.4	A1
TP173	1.3-1.5	110	4.9	9	1.0	A2
TP174	0.2-0.4	350	8.3	9	3.2	A1
TP174	1.1-1.3	270	8.8	9	2.4	A1
TP175	0.4-0.6	230	7.6	9	2.1	A1
TP175	0.9-1.1	130	5.9	9	1.2	A1
TP176	0-0.2	44	5.7	7	0.3	A1
TP176	0.8-1.0	130	5.6	17	2.2	A1
TP177	0.2-0.4	95	6.0	9	0.9	A1
TP177	1.1-1.3	78	5.7	9	0.7	A1
TP178	0.4-0.6	100	6.7	9	0.9	A1
TP178	0.9-1.1	170	5.8	9	1.5	A1
TP179	0-0.2	110	6.1	9	1.0	A1
TP179	1.3-1.5	93	6.7	9	0.8	A1
TP180	0.2-0.4	83	5.0	9	0.7	A2
TP180	1.1-1.3	74	4.8	7	0.5	A2
TP181	0.4-0.6	140	6.9	9	1.3	A1
TP181	0.9-1.1	160	6.4	9	1.4	A1
TP182	0-0.2	180	7.2	9	1.6	A1
TP182	1.3-1.5	50	6.1	9	0.5	A1
TP183	0.2-0.4	88	5.1	9	0.8	A2
TP183	1.1-1.3	170	5.8	9	1.5	A1
TP184	0.4-0.6	120	6.3	9	1.1	A1
TP185	0-0.2	190	5.4	9	1.7	A2
TP185	1.3-1.5	140	5.5	9	1.3	A1
TP186	0.2-0.4	200	7.0	9	1.8	A1
TP186	1.1-1.3	130	6.1	9	1.2	A1
TP187	0.4-0.6	88	5.4	9	0.8	A2
TP187	0.9-1.1	130	5.8	9	1.2	A1

8559/13-AA
Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Location	Depth (m)	EC ($\mu\text{S/cm}$)	pH	MF	EC _e (dS/m)	Exposure Classification
TP188	0-0.2	110	6.3	9	1.0	A1
TP188	1.3-1.5	120	8.3	9	1.1	A1
TP189	0.3-0.5	300	7.2	9	2.7	A1

* The multiplication factor (MF) is a function of the soil texture and description (Site Investigations for Urban Salinity – 2002)

Specifications

Electrical Conductivity (EC) testing was carried out to assess soil salinity, as outlined in the DEH (Department of Environment and Heritage) publication, "Site Investigations for Urban Salinity - 2002". The test conducted on a soil sample for salinity is generally made up of 1:5 soil water suspension, which is one part air dried soil to five parts distilled water. The determined EC is multiplied by a factor (varying from 6 to 17) based on the texture of the soil sample to obtain Corrected Electrical Conductivity designated as EC_e. Based on site investigation results, an average multiplication factor of 7 was used for the clays encountered during field work. The DEH publication defines various classes of saline soils as follows:

Classification	EC _e (dS/m)	Exposure Classification AS2870-2011
Non-saline	<2	A1
Slightly saline	2 – 4	
Moderately saline	4 – 8	A2
Very saline	8 – 16	B1
Highly saline	>16	B2

Acidity (pH) testing was also conducted to determine the aggressivity of the soils to steel and concrete. The various classes of aggressive soils are defined as follows according to AS2870-2011.

Classification	pH	Exposure Classification AS2870-2011
Non-aggressive	>5.5	A1
Mild	4.5-5.5	A2
Moderate	4.0-4.5	B1
Severe	<4.0	B2

Based on the results, it is assessed that soils at the site are generally non-saline to slightly saline and non-aggressive to mildly aggressive to steel and concrete.

Conclusion

Based on the procedures described in AS2870-2011 the exposure classifications for the proposed lots are shown in Table 2.

8559/13-AA
Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Table 2: Site Exposure Classifications (AS2870-2011)

Lot No	Exposure Classification	Lot No	Exposure Classification	Lot No	Exposure Classification
2001	A1	2041	A1	2081	A1
2002	A1	2042	A1	2082	A1
2003	A1	2043	A1	2083	A2
2004	A1	2044	A1	2084	A1
2005	A2	2045	A1	2085	A1
2006	A2	2046	A1	2086	A1
2007	A1	2047	A2	2087	A1
2008	A1	2048	A2	2088	A1
2009	A1	2049	A1	2089	A1
2010	A1	2050	A1	2090	A1
2011	A1	2051	A1	2091	A2
2012	A1	2052	A1	2092	A2
2013	A1	2053	A2	2093	A1
2014	A1	2054	A2	2094	A1
2015	A1	2055	A2	2095	A1
2016	A1	2056	A2	2096	A1
2017	A1	2057	A1	2097	A1
2018	A2	2058	A1	2098	A1
2019	A2	2059	A1	2099	A2
2020	A1	2060	A1	2100	A1
2021	A1	2061	A1	2101	A1
2022	A2	2062	A1	2102	A1
2023	A2	2063	A1	2103	A1
2024	A1	2064	A1	2104	A1
2025	A1	2065	A1	2105	A1
2026	A2	2066	A2	2106	A1
2027	A2	2067	A1	2107	A1
2028	A1	2068	A1	2108	A1
2029	A2	2069	A1	2109	A1
2030	A2	2070	A1	2110	A1
2031	A1	2071	A1	2111	A1
2032	A1	2072	A1	2112	A2
2033	A2	2073	A1	2113	A2
2034	A2	2074	A1	2114	A1
2035	A2	2075	A1	2115	A1
2036	A2	2076	A1	2116	A1
2037	A2	2077	A1	2117	A2
2038	A2	2078	A1	2118	A1
2039	A2	2079	A1	2119	A2
2040	A2	2080	A1	2120	A2

8559/13-AA
Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Table 2: Site Exposure Classifications (AS2870-2011)

Lot No	Exposure Classification	Lot No	Exposure Classification	Lot No	Exposure Classification
2121	A2	2161	A1	2201	A1
2122	A2	2162	A1	2202	A1
2123	A2	2163	A1	2203	A1
2124	A2	2164	A1	2204	A1
2125	A2	2165	A1	2205	A1
2126	A1	2166	A1	2206	A1
2127	A1	2167	A1	2207	A1
2128	A2	2168	A1	2208	A1
2129	A2	2169	A1	2209	A1
2130	A1	2170	A1	2210	A1
2131	A1	2171	A1	2211	A1
2132	A1	2172	A1	2212	A1
2133	A1	2173	A2	2213	A1
2134	A2	2174	A2	2214	A1
2135	A2	2175	A1	2215	A2
2136	A2	2176	A1	2216	A2
2137	A2	2177	A1	2217	A1
2138	A2	2178	A1	2218	A1
2139	A2	2179	A1	2219	A2
2140	A2	2180	A1	2220	A2
2141	A2	2181	A1	2221	A2
2142	A2	2182	A1	2222	A2
2143	A2	2183	A2	2223	A2
2144	A2	2184	A2	2224	A2
2145	A2	2185	A1	2225	A2
2146	A2	2186	A1	2226	A2
2147	A1	2187	A1	2227	A2
2148	A1	2188	A1	2228	A2
2149	A1	2189	A1	2229	A1
2150	A2	2190	A1	2230	A1
2151	A2	2191	A1	2231	A1
2152	A1	2192	A1	2232	A1
2153	A1	2193	A2	2233	A1
2154	A1	2194	A2	2234	A2
2155	A1	2195	A2	2235	A2
2156	A1	2196	A2	2236	A2
2157	A1	2197	A2	2237	A2
2158	A1	2198	A2	2238	A2
2159	A1	2199	A2	2239	A2
2160	A1	2200	A2	2240	A2

8559/13-AA
Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Table 2: Site Exposure Classifications (AS2870-2011)

Lot No	Exposure Classification	Lot No	Exposure Classification	Lot No	Exposure Classification
2241	A2	2281	A2	2321	A1
2242	A2	2282	A2	2322	A1
2243	A2	2283	A2	2323	A2
2244	A2	2284	A2	2324	A2
2245	A2	2285	A2	2325	A2
2246	A2	2286	A2	2326	A2
2247	A2	2287	A2	2327	A1
2248	A2	2288	A2	2328	A2
2249	A2	2289	A2	2329	A2
2250	A1	2290	A1	2330	A2
2251	A1	2291	A1	2231	A1
2252	A1	2292	B1	2332	A2
2253	A1	2293	B1	2333	A2
2254	A1	2294	B1	2334	A2
2255	A1	2295	B1	2335	A2
2256	A2	2296	A2	2336	A2
2257	A2	2297	A2	2337	A2
2258	A2	2298	A2	2338	A2
2259	A2	2299	A2	2339	A2
2260	A2	2300	A2	2340	A2
2261	A2	2301	A2	2341	A2
2262	A2	2302	A2	2342	A2
2263	A2	2303	A2	2343	A2
2264	A2	2304	A2	2344	A2
2265	A2	2305	A2	2345	A2
2266	A2	2306	A2	2346	A2
2267	A2	2307	A2	2347	A2
2268	A2	2308	A2	2348	A2
2269	A2	2309	A1	2349	A2
2270	A2	2310	A1	2350	A2
2271	A2	2311	A1	2351	A2
2272	A2	2312	A1	2352	A2
2273	A2	2313	A1	2353	A2
2274	A2	2314	A2	2354	A1
2275	A2	2315	A2	2401	A1
2276	A2	2316	A2	2402	A1
2277	A2	2317	A2	2403	A1
2278	A2	2318	A2	2404	A1
2279	A2	2319	A2	2405	A1
2280	A2	2320	A2	2406	A1

8559/13-AA
Newpark Precinct 2 (Stages 1 & 2), Marsden Park

Table 2: Site Exposure Classifications (AS2870-2011)

Lot No	Exposure Classification	Lot No	Exposure Classification	Lot No	Exposure Classification
2407	A1	2417	A2	2427	A1
2408	A1	2418	A1	2428	A1
2409	A1	2419	A1	2429	A1
2410	A2	2420	A1		
2411	A2	2421	A1		
2412	A1	2422	A1		
2413	A1	2423	A1		
2414	A2	2424	A1		
2415	A2	2425	A1		
2416	A2	2426	A1		

Based on the results of the post site works salinity assessment, the site is suitable for the residential subdivision development. The construction requirements for A1, A2 & B1 classifications are shown below (AS2870-2011, Table 5.3).

Classification	Minimum Design Characteristic Strength	Minimum Initial Curing
A1	20 MPa	3 days
A2	25 MPa	3 days
B1	32 MPa	7 days

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

Yours faithfully
GEOTECHNIQUE PTY LTD



ZIAUDDIN AHMED
Associate Geotechnical Engineer

Attached Table A – Summary of Test Pits (8599/8)
Drawing Nos 8599/8-AA1 & AA2 – Test Pit Locations

TABLE A

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

Page 1 of 46

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

TABLE A

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

Page 2 of 46

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

TABLE A

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

Page 3 of 46

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

TABLE A

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

Page 4 of 46

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

TABLE A

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

Page 5 of 46

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

TABLE A

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

Page 6 of 46

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

TABLE A

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

Page 7 of 46

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

TABLE A

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

Page 8 of 46

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

TABLE A

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

Page 9 of 46

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

TABLE A

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

Page 10 of 46

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

TABLE A

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

Page 11 of 46

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

TABLE A

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

Page 12 of 46

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

TABLE A

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

Page 13 of 46

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

TABLE A

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

Page 14 of 46

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

TABLE A

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

Page 15 of 46

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

TABLE A

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

Page 16 of 46

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

TABLE A

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

Page 17 of 46

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

TABLE A

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

Page 18 of 46

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

TABLE A

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

Page 19 of 46

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

TABLE A

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

Page 20 of 46

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

TABLE A

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

Page 21 of 46

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

TABLE A

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

Page 22 of 46

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

TABLE A

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

Page 23 of 46

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

TABLE A

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

Page 24 of 46

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

TABLE A

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

Page 25 of 46

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

TABLE A

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

Page 26 of 46

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

TABLE A

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

Page 27 of 46

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

TABLE A

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

Page 28 of 46

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

TABLE A

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

Page 29 of 46

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

TABLE A

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

Page 30 of 46

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

TABLE A

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

Page 31 of 46

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

TABLE A

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

Page 32 of 46

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

TABLE A

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

Page 33 of 46

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

TABLE A

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

Page 34 of 46

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

TABLE A

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

Page 35 of 46

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

TABLE A

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

Page 36 of 46

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

TABLE A

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

Page 37 of 46

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

TABLE A

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

Page 38 of 46

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

TABLE A

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

Page 39 of 46

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

TABLE A

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

Page 40 of 46

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

TABLE A

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

Page 41 of 46

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

TABLE A

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

Page 42 of 46

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

TABLE A

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

Page 43 of 46

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

TABLE A

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

Page 44 of 46

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

TABLE A

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

Page 45 of 46

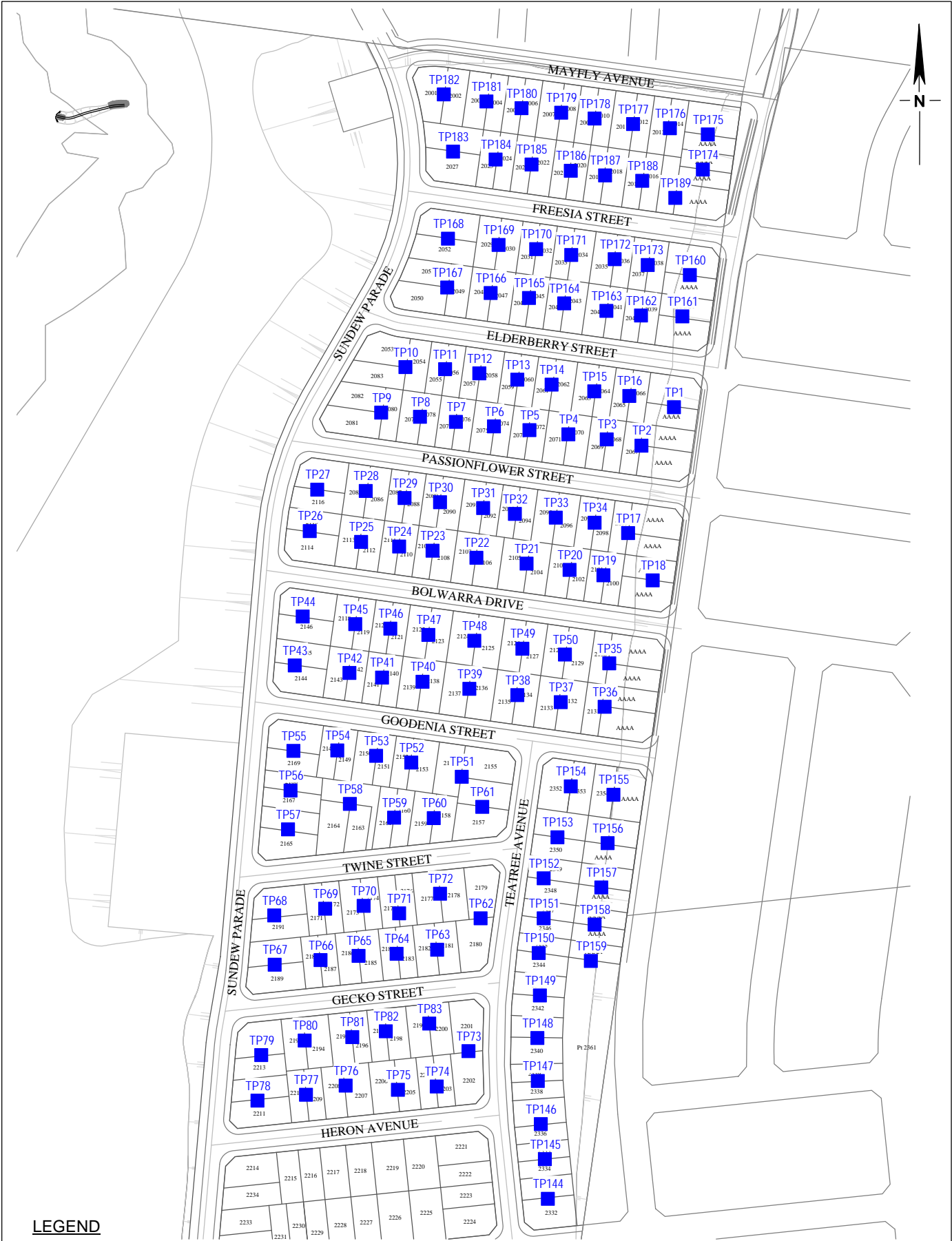
TEST PIT NUMBER	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
183	0-1.50	0.20-0.40 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, some sandstone, traces of gravel and shale
		1.10-1.30 DSP	
184	0-1.1	0.4-0.6 DSP	FILL: Sandy Clay, medium plasticity, brown/red mottled grey, traces of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

TABLE A

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

Page 46 of 46

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



LEGEND

■ Test Pit

PREPARED BY:



34 Borec Road
Penrith
NSW 2750
ABN 71 076 676 321

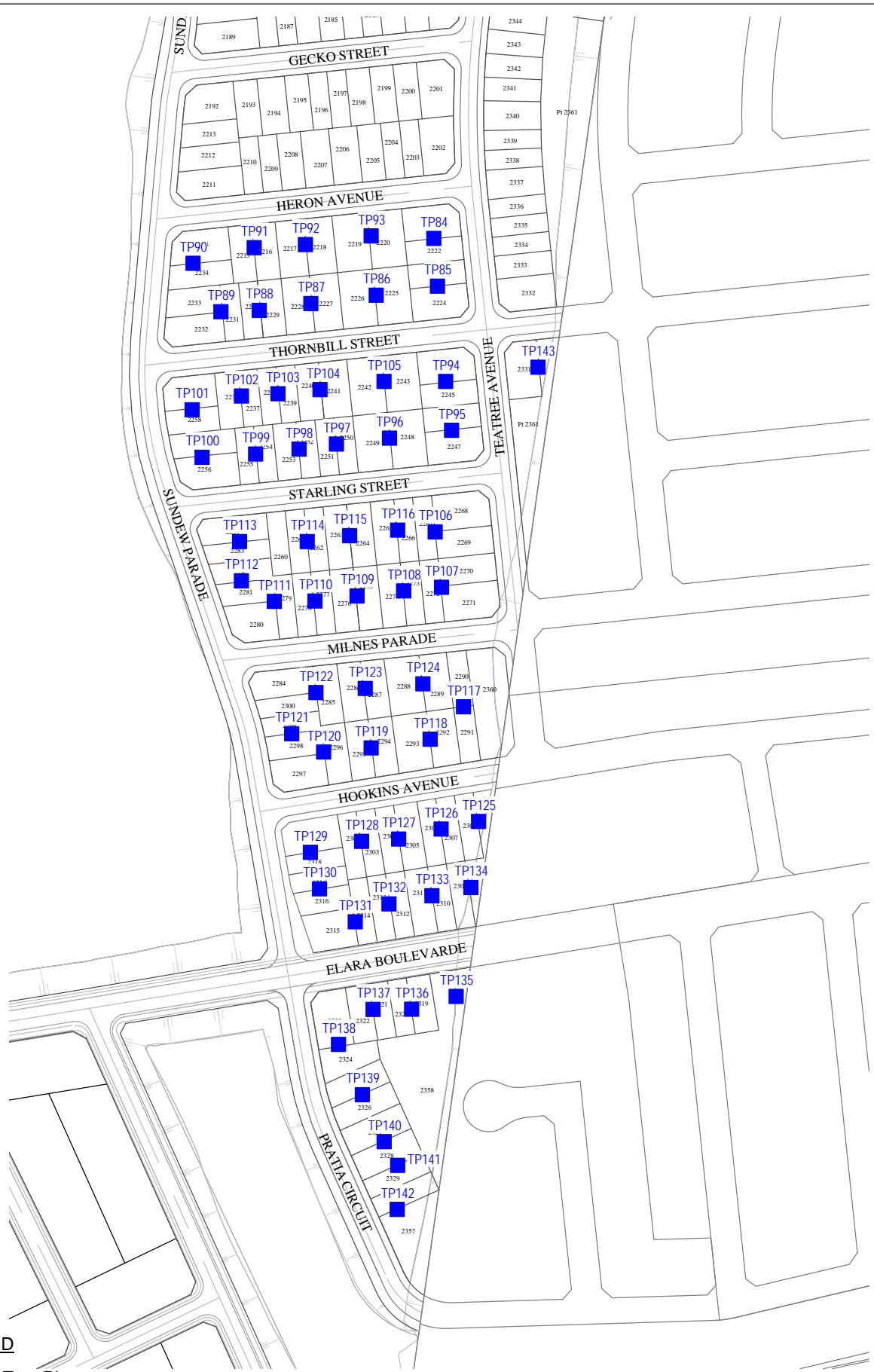
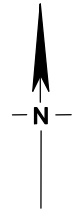
Tel: 02 4722 2744
Fax: 02 4722 2777
e-mail: info@geotech.com.au
www.geotech.com.au

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

Test Pit Locations

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

File No: 8599-8
Layers: 0, AA1



LEGEND

■ Test Pit

PREPARED BY:



34 Borec Road
Penrith
NSW 2750
ABN 71 076 676 321

Tel: 02 4722 2744
Fax: 02 4722 2777
e-mail: info@geotech.com.au
www.geotech.com.au

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

Test Pit Locations

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

File No: 8599-8
Layers: 0, AA2