



Job No: 8599/74
Our Ref: 8599/74-AA-R1
18 October 2022

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

Attention: Mr S Wong

Dear Sir

re: **Newpark – Precinct 7 – Stage 7B
Abell Road, Marsden Park
Post Earthworks Salinity Assessment – Exposure Classification**

At your request, Geotech Testing Pty Ltd conducted a salinity and aggressivity assessment at the above site after completion of earthworks. This report provides exposure classification of the proposed lots at Precinct 7B of the above development.

Field Work

Field work for the investigation was carried out under the full time supervision of a Geotechnical Engineer on 15th to 22nd August 2022 and consisted of excavation of seventy two (72) test pits (TP1 to TP72) to depths of the order of 1.5m using a 5 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 No 8599/73-AA1 in Appendix A. A summary of the field data obtained is presented in Appendix A.

Site Conditions

The site (Precinct 7B) is irregular in shape and located within the Newpark subdivision. The site is bound by Stage 7B to the north east; Stage 7A to the east; Stage 7C to the south; Stage 7D to the south west; open fields followed by low density residential to the north west; Stage 7J to the north. At the time of investigation, earthworks for the lots had been completed and the construction of internal roads was underway. The topography of the site is generally flat with a mild slope in the northern direction.

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

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)
TP1	1.5	0.0-0.3	NE	0.3-1.5
TP2	1.5	0.0-0.3	NE	0.3-1.5
TP3	1.5	0.0-0.3	NE	0.3-1.5
TP4	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP5	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP6	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP7	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP8	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP9	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP10	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP11	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP12	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP13	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP14	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP15	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP16	1.5	0.0-0.3	0.3-0.6	0.6-1.5
TP17	1.5	0.0-0.3	NE	0.3-1.5
TP18	1.5	0.0-0.3	NE	0.3-1.5
TP19	1.5	0.0-0.3	NE	0.3-1.5
TP20	1.5	0.0-0.3	NE	0.3-1.5
TP21	1.5	0.0-0.3	NE	0.3-1.5
TP22	1.5	0.0-0.3	NE	0.3-1.5
TP23	1.5	0.0-0.3	NE	0.3-1.5
TP24	1.5	0.0-0.3	NE	0.3-1.5
TP25	1.5	0.0-0.3	NE	0.3-1.5
TP26	1.5	0.0-0.3	NE	0.3-1.5
TP27	1.5	0.0-0.3	NE	0.3-1.5
TP28	1.5	0.0-0.3	NE	0.3-1.5
TP29	1.5	0.0-0.3	NE	0.3-1.5
TP30	1.5	0.0-0.3	NE	0.3-1.5
TP31	1.5	0.0-0.3	NE	0.3-1.5
TP32	1.5	0.0-0.3	NE	0.3-1.5
TP33	1.5	0.0-0.3	NE	0.3-1.5
TP34	1.5	0.0-0.3	NE	0.3-1.5
TP35	1.5	0.0-0.3	NE	0.3-1.5

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)
TP36	1.5	0.0-0.3	NE	0.3-1.5
TP37	1.5	0.0-0.3	NE	0.3-1.5
TP38	1.5	0.0-0.3	NE	0.3-1.5
TP39	1.5	0.0-0.3	NE	0.3-1.5
TP40	1.5	0.0-0.3	NE	0.3-1.5
TP41	1.5	0.0-0.3	NE	0.3-1.5
TP42	1.5	0.0-0.3	NE	0.3-1.5
TP43	1.5	0.0-0.3	NE	0.3-1.5
TP44	1.5	0.0-0.3	NE	0.3-1.5
TP45	1.5	0.0-0.3	NE	0.3-1.5
TP46	1.5	0.0-0.3	0.3-0.5	0.5-1.5
TP47	1.5	0.0-0.3	0.3-0.5	0.5-1.5
TP48	1.5	0.0-0.3	0.3-0.5	0.5-1.5
TP49	1.5	0.0-0.3	NE	0.3-1.5
TP50	1.5	0.0-0.3	NE	0.3-1.5
TP51	1.5	0.0-0.3	NE	0.3-1.5
TP52	1.5	0.0-0.3	NE	0.3-1.5
TP53	1.5	0.0-0.3	NE	0.3-1.5
TP54	1.5	0.0-0.3	NE	0.3-1.5
TP55	1.5	0.0-0.3	NE	0.3-1.5
TP56	1.5	0.0-0.3	NE	0.3-1.5
TP57	1.5	0.0-0.3	NE	0.3-1.5
TP58	1.5	0.0-0.3	NE	0.3-1.5
TP59	1.5	0.0-0.3	NE	0.3-1.5
TP60	1.5	0.0-0.3	NE	0.3-1.5
TP61	1.5	0.0-0.3	NE	0.3-1.5
TP62	1.5	0.0-0.3	NE	0.3-1.5
TP63	1.5	0.0-0.3	NE	0.3-1.5
TP64	1.5	0.0-0.3	NE	0.3-1.5
TP65	1.5	0.0-0.3	0.3-0.8	0.8-1.5
TP66	1.5	0.0-0.3	NE	0.3-1.5
TP67	1.5	0.0-0.3	NE	0.3-1.5
TP68	1.5	0.0-0.3	NE	0.3-1.5
TP69	1.5	0.0-0.3	NE	0.3-1.5
TP70	1.5	0.0-0.3	NE	0.3-1.5
TP71	1.5	0.0-0.3	0.3-0.5	0.5-1.5
TP72	1.5	0.0-0.3	NE	0.3-1.5

NE: Not encountered to the termination depth

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

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

Topsoil	<p>Silty Gravelly Clay, high plasticity, brown, occasional ironstone gravel and cobble</p> <p>Silty Gravelly Clay, high plasticity, brown-grey, occasional ironstone gravel and cobble</p> <p>Silty Gravelly Clay, high plasticity, brown-red, occasional ironstone gravel and cobble</p> <p>Silty Clay, low plasticity, dark brown</p> <p>Silty Clay, high plasticity, dark brown, occasional gravel</p> <p>Silty Clay, high plasticity, dark brown-red, occasional gravel</p> <p>Silty Clay, high plasticity, brown, trace of gravel</p> <p>Silty Clay, high plasticity, brown-orange-red, trace of ironstone gravel, trace of cobble</p> <p>Silty Clay, low plasticity, brown, occasional gravel and ironstone gravel</p> <p>Silty Gravelly Clay, high plasticity, red-grey, trace of ironstone gravel</p> <p>Silty Gravelly Clay, low plasticity, dark brown</p> <p>Silty Gravelly Clay, high plasticity, grey-brown, occasional gravel and ironstone gravel</p> <p>Silty Gravelly Clay, low plasticity, grey-orange-brown</p> <p>Silty Gravelly Clay, low plasticity, brown</p> <p>Silty Clay, high plasticity, red-grey</p> <p>Silty Clay, low plasticity, grey-brown, trace of cobble</p> <p>Silty Clay, high plasticity, red-brown, occasional gravel</p> <p>Silty Cobbly Clay, high plasticity, brown-orange, trace of ironstone gravel</p> <p>Silty Clay, high plasticity, grey, occasional gravel and ironstone gravel</p> <p>Silty Clay, high plasticity, grey-brown, occasional ironstone gravel, gravel and cobble</p> <p>Silty Clay, high plasticity, grey-orange, trace of ironstone gravel</p> <p>Silty Gravelly Clay, high plasticity, dark brown</p> <p>Silty Clay, medium to high plasticity, brown, trace of gravel, trace of shale fragments, trace of cobble</p> <p>Silty Clay, medium to high plasticity, orange-grey, trace of gravel, trace of ironstone gravel</p> <p>Silty Clay, low plasticity, grey-red, trace gravel</p> <p>Silty Cobbly Clay, high plasticity, brown, trace of ironstone gravel, trace of gravel</p> <p>Silty Cobbly Clay, high plasticity, brown-orange, trace of ironstone gravel</p> <p>Silty Gravelly Clay, low plasticity, grey-brown, trace of ironstone gravel</p>
Fill	<p>Silty Gravelly Clay, high plasticity, dark brown, medium grain subangular gravel, trace of medium grain subrounded cobble</p> <p>Silty Gravelly Clay, low plasticity, grey-brown, medium grain subangular gravel</p> <p>Silty Clay, high plasticity, brown-grey, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel</p> <p>Silty Clay, high plasticity, brown, trace of medium grain subrounded cobble, occasional shale fragments and gravel</p> <p>Silty Clay, medium to high plasticity, brown, trace of medium grain subrounded cobble</p>
Natural	<p>Silty Gravelly CLAY, low to medium plasticity, brown, trace of cobble</p> <p>Silty Gravelly CLAY, low to medium plasticity, brown-red, trace of cobble</p> <p>Silty CLAY, high plasticity, brown, trace of gravel, occasional cobble and ironstone pockets</p> <p>Silty CLAY, high plasticity, brown-grey, cobble, trace of gravel</p> <p>Silty CLAY, high plasticity, brown-orange, trace of ironstone pockets, trace of cobble, trace of shale fragments, trace of gravel</p> <p>Silty CLAY, high plasticity, brown-red, trace of cobble, trace of ironstone pockets, trace of gravel</p> <p>Silty Gravelly CLAY, high plasticity, dark brown, trace of cobble, trace of ironstone pockets</p> <p>Silty CLAY, high plasticity, brown, trace of cobble, trace of ironstone pockets, trace of gravel</p> <p>Silty Cobbly CLAY, high plasticity, brown, trace of ironstone pockets, occasional gravel and shale fragments</p>

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

<p>Silty Gravelly Sandy CLAY, medium to high plasticity, grey-brown-orange, trace of ironstone pockets</p> <p>Silty Gravelly Sandy CLAY, medium to high plasticity, brown, trace of ironstone pockets</p> <p>Silty Cobbly CLAY, high plasticity, brown-grey, occasional gravel, ironstone pockets and ironstone gravel</p> <p>Silty Gravelly CLAY, high plasticity, brown-grey, trace of cobble, trace of ironstone pockets</p> <p>Silty Gravelly CLAY, high plasticity, grey-brown, trace of ironstone pockets, occasional cobble</p> <p>Silty Gravelly CLAY, low plasticity, grey-orange, trace of ironstone pockets</p> <p>Silty Gravelly CLAY, medium to high plasticity, brown, trace of ironstone pockets</p> <p>Silty Gravelly CLAY, low plasticity, brown-orange, trace of ironstone pockets</p> <p>Silty CLAY, low plasticity, grey-orange, trace of gravel, trace of ironstone pockets, trace of cobble</p> <p>Silty CLAY, medium to high plasticity, grey-orange, trace of cobble, trace of gravel, trace of ironstone pockets</p> <p>Silty CLAY, high plasticity, red-grey, trace of cobble, trace of ironstone pockets, trace of gravel</p> <p>Silty Cobbly CLAY, low plasticity, grey-brown, trace of ironstone pockets</p> <p>Silty CLAY, high plasticity, red-brown, trace of cobble, trace of gravel, occasional ironstone pockets</p> <p>Silty Cobbly CLAY, high plasticity, brown-orange, trace of ironstone pockets, trace of gravel</p> <p>Silty Gravelly CLAY, high plasticity, occasional ironstone pockets and cobble</p> <p>Silty Cobbly CLAY, high plasticity, grey, trace of gravel</p> <p>Silty Cobbly CLAY, high plasticity, grey-brown, trace of ironstone pockets, trace of gravel</p> <p>Silty CLAY, medium to high plasticity, brown, trace of cobble</p> <p>Silty CLAY, medium to high plasticity, brown, trace of cobble, trace of ironstone pockets, trace of gravel</p> <p>Silty Gravelly CLAY, high plasticity, red-brown-grey, trace of ironstone pockets</p> <p>Silty CLAY, high plasticity, grey, trace of ironstone pockets, occasional gravel</p> <p>Silty Cobbly CLAY, low plasticity, orange-grey, trace of ironstone pockets</p> <p>Silty Gravelly CLAY, medium to high plasticity, orange-grey, with ironstone pockets</p> <p>Silty CLAY, low plasticity, grey-red, trace of ironstone pockets, trace of gravel</p> <p>Silty CLAY, high plasticity, red-brown-grey, trace of cobble, trace of ironstone pockets</p> <p>Silty CLAY, high plasticity, dark red-brown, trace of gravel</p> <p>Silty CLAY, low plasticity, brown, trace of ironstone pockets, trace of cobble, trace of gravel</p> <p>Silty CLAY, medium to high plasticity, brown-red, trace of ironstone pockets, trace of cobble, trace of gravel</p> <p>Silty Gravelly CLAY, high plasticity, brown grey, trace of cobble, trace of ironstone pockets</p> <p>Silty Gravelly CLAY, low plasticity, grey-brown, trace of ironstone pockets</p>

*See Appendix A "Table A - Summary of Test Pits" for more descript soil classifications

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.

Exposure Classification

Laboratory Testing

During field work, a total of one hundred and forty four (144) soil samples were collected for chemical testing in the NATA accredited laboratory of SGS for salinity and acidity properties. The laboratory test results certificates from SGS are attached at the end of this report and summarised in Table 2.

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

Table 2: Laboratory Tests Results

Test Pit	Depth (m)	pH	EC (µS/cm)	Multiplying Factor	EC _e (dS/m)	Classification
TP1	0.4-0.5	5	340	8	2.72	A2
TP1	0.8-0.9	5.1	290	8	2.32	A2
TP2	0.4-0.5	4.4	270	8	2.16	B1
TP2	0.8-0.9	5	280	8	2.24	A2
TP3	0.4-0.5	4.9	200	8	1.6	A2
TP3	0.8-0.9	4.9	210	8	1.68	A2
TP4	0.4-0.5	4.4	160	8	1.28	B1
TP4	0.8-0.9	4.8	170	8	1.36	A2
TP5	0.4-0.5	5	370	8	2.96	A2
TP5	0.8-0.9	6	160	8	1.28	A1
TP6	0.4-0.5	6	180	8	1.44	A1
TP6	0.8-0.9	5.3	520	8	4.16	A2
TP7	0.4-0.5	5.3	170	8	1.36	A2
TP7	0.8-0.9	5.7	390	8	3.12	A1
TP8	0.4-0.5	5.4	260	8	2.08	A2
TP8	0.8-0.9	4.7	230	8	1.84	A2
TP9	0.4-0.5	5.3	300	8	2.4	A2
TP9	0.8-0.9	5	410	8	3.28	A2
TP10	0.4-0.5	4.9	360	8	2.88	A2
TP10	0.8-0.9	5.1	220	8	1.76	A2
TP11	0.4-0.5	5.1	240	8	1.92	A2
TP11	0.8-0.9	4.8	530	8	4.24	A2
TP12	0.4-0.5	4.8	340	8	2.72	A2
TP12	0.8-0.9	5.3	220	8	1.76	A2
TP13	0.4-0.5	4.9	460	8	3.68	A2
TP13	0.8-0.9	4.8	440	8	3.52	A2
TP14	0.4-0.5	4.8	460	8	3.68	A2
TP14	0.8-0.9	5.8	370	8	2.96	A1
TP15	0.4-0.5	4.8	260	8	2.08	A2
TP15	0.8-0.9	5.2	290	8	2.32	A2
TP16	0.4-0.5	5.4	420	8	3.36	A2
TP16	0.8-0.9	4.9	390	8	3.12	A2
TP17	0.4-0.5	4.8	550	8	4.4	A2
TP17	0.8-0.9	4.8	660	8	5.28	A2

* The multiplication factor (MF) is a function of the soil texture and description (Site Investigations for Urban Salinity – 2002)
 EC_e (Corrected Electrical Conductivity) = MF x EC

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

Table 2: Laboratory Tests Results (Continued)

Test Pit	Depth (m)	pH	EC (µS/cm)	Multiplying Factor	EC _e (dS/m)	Classification
TP18	0.4-0.5	5.5	630	8	5.04	A2
TP18	0.8-0.9	5.1	600	8	4.8	A2
TP19	0.4-0.5	6.5	360	8	2.88	A1
TP19	0.8-0.9	6.7	460	8	3.68	A1
TP20	0.4-0.5	5.1	890	8	7.12	A2
TP20	0.8-0.9	5.7	540	8	4.32	A2
TP21	0.4-0.5	5.4	630	8	5.04	A2
TP21	0.8-0.9	5.5	570	8	4.56	A2
TP22	0.4-0.5	6.7	480	8	3.84	A1
TP22	0.8-0.9	6.7	640	8	5.12	A2
TP23	0.4-0.5	5.4	600	8	4.8	A2
TP23	0.8-0.9	5.6	540	8	4.32	A2
TP24	0.4-0.5	6	130	8	1.04	A1
TP24	0.8-0.9	5.5	300	8	2.4	A1
TP25	0.4-0.5	5.3	410	8	3.28	A2
TP25	0.8-0.9	5.2	460	8	3.68	A2
TP26	0.4-0.5	5.6	270	8	2.16	A1
TP26	0.8-0.9	5.4	370	8	2.96	A2
TP27	0.4-0.5	7.3	340	8	2.72	A1
TP27	0.8-0.9	7	360	8	2.88	A1
TP28	0.4-0.5	5	340	8	2.72	A2
TP28	0.8-0.9	5	250	8	2	A2
TP29	0.4-0.5	4.6	780	8	6.24	A2
TP29	0.8-0.9	4.6	920	8	7.36	A2
TP30	0.4-0.5	4.9	520	8	4.16	A2
TP30	0.8-0.9	4.8	640	8	5.12	A2
TP31	0.4-0.5	4.3	1000	8	8	B1
TP31	0.8-0.9	4.6	830	8	6.64	A2
TP32	0.4-0.5	4.9	390	8	3.12	A2
TP32	0.8-0.9	5.4	340	8	2.72	A2
TP33	0.4-0.5	5.1	77	8	0.616	A2
TP33	0.8-0.9	4.7	150	8	1.2	A2
TP34	0.4-0.5	4.8	52	8	0.416	A2
TP34	0.8-0.9	4.6	48	8	0.384	A2

* The multiplication factor (MF) is a function of the soil texture and description (Site Investigations for Urban Salinity – 2002)
 EC_e (Corrected Electrical Conductivity) = MF x EC

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

Table 2: Laboratory Tests Results (Continued)

Test Pit	Depth (m)	pH	EC (µS/cm)	Multiplying Factor	EC _e (dS/m)	Classification
TP35	0.4-0.5	4.9	240	8	1.92	A2
TP35	0.8-0.9	4.7	360	8	2.88	A2
TP36	0.4-0.5	4.2	480	8	3.84	B1
TP36	0.8-0.9	4.3	350	8	2.8	B1
TP37	0.4-0.5	4.4	49	8	0.392	B1
TP37	0.8-0.9	4.5	52	8	0.416	A2
TP38	0.4-0.5	5.6	160	8	1.28	A1
TP38	0.8-0.9	5.5	160	8	1.28	A1
TP39	0.4-0.5	5.3	330	8	2.64	A2
TP39	0.8-0.9	5.1	280	8	2.24	A2
TP40	0.4-0.5	5.6	230	8	1.84	A1
TP40	0.8-0.9	5.5	200	8	1.6	A1
TP41	0.4-0.5	6	36	8	0.288	A1
TP41	0.8-0.9	5.8	78	8	0.624	A1
TP42	0.4-0.5	5.5	280	8	2.24	A1
TP42	0.8-0.9	5.2	400	8	3.2	A2
TP43	0.4-0.5	5	360	8	2.88	A2
TP43	0.8-0.9	5.3	230	8	1.84	A2
TP44	0.4-0.5	5.2	110	8	0.88	A2
TP44	0.8-0.9	6.3	47	8	0.376	A1
TP45	0.4-0.5	4.7	170	8	1.36	A2
TP45	0.8-0.9	4.9	93	8	0.744	A2
TP46	0.4-0.5	6.2	670	8	5.36	A2
TP46	0.8-0.9	5.9	380	8	3.04	A1
TP47	0.4-0.5	5.9	280	8	2.24	A1
TP47	0.8-0.9	5.4	210	8	1.68	A2
TP48	0.4-0.5	4.9	130	8	1.04	A2
TP48	0.8-0.9	4.9	150	8	1.2	A2
TP49	0.4-0.5	5	400	8	3.2	A2
TP49	0.8-0.9	4.9	340	8	2.72	A2
TP50	0.4-0.5	5.1	410	8	3.28	A2
TP50	0.8-0.9	5.1	490	8	3.92	A2
TP51	0.4-0.5	4.4	160	8	1.28	B1
TP51	0.8-0.9	4.4	110	8	0.88	B1

* The multiplication factor (MF) is a function of the soil texture and description (Site Investigations for Urban Salinity – 2002)
 EC_e (Corrected Electrical Conductivity) = MF x EC

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

Table 2: Laboratory Tests Results (Continued)

Test Pit	Depth (m)	pH	EC (µS/cm)	Multiplying Factor	EC _e (dS/m)	Classification
TP52	0.4-0.5	4.4	760	8	6.08	B1
TP52	0.8-0.9	4.5	770	8	6.16	A2
TP53	0.4-0.5	4.6	49	8	0.392	A2
TP53	0.8-0.9	4.4	62	8	0.496	B1
TP54	0.4-0.5	4.7	45	8	0.36	A2
TP54	0.8-0.9	4.7	47	8	0.376	A2
TP55	0.4-0.5	5.2	160	8	1.28	A2
TP55	0.8-0.9	5.2	300	8	2.4	A2
TP56	0.4-0.5	5.2	25	8	0.2	A2
TP56	0.8-0.9	4.9	37	8	0.296	A2
TP57	0.4-0.5	4.5	180	8	1.44	A2
TP57	0.8-0.9	4.7	66	8	0.528	A2
TP58	0.4-0.5	4.8	280	8	2.24	A2
TP58	0.8-0.9	4.5	410	8	3.28	A2
TP59	0.4-0.5	4.6	480	8	3.84	A2
TP59	0.8-0.9	7.4	380	8	3.04	A1
TP60	0.4-0.5	5.4	440	8	3.52	A2
TP60	0.8-0.9	7.6	480	8	3.84	A1
TP61	0.4-0.5	4.8	370	8	2.96	A2
TP61	0.8-0.9	5.3	160	8	1.28	A2
TP62	0.4-0.5	4.8	43	8	0.344	A2
TP62	0.8-0.9	4.8	46	8	0.368	A2
TP63	0.4-0.5	4.7	360	8	2.88	A2
TP63	0.8-0.9	5	380	8	3.04	A2
TP64	0.4-0.5	4.6	720	8	5.76	A2
TP64	0.8-0.9	4.8	660	8	5.28	A2
TP65	0.4-0.5	4.7	850	8	6.8	A2
TP65	0.8-0.9	4.7	850	8	6.8	A2
TP66	0.4-0.5	5	630	8	5.04	A2
TP66	0.8-0.9	5.1	440	8	3.52	A2
TP67	0.4-0.5	4.3	1200	8	9.6	B1
TP67	0.8-0.9	4.3	1300	8	10.4	B1
TP68	0.4-0.5	4.9	350	8	2.8	A2
TP68	0.8-0.9	4.3	420	8	3.36	B1

* The multiplication factor (MF) is a function of the soil texture and description (Site Investigations for Urban Salinity – 2002)
 EC_e (Corrected Electrical Conductivity) = MF x EC

Table 2: Laboratory Tests Results (Continued)

Test Pit	Depth (m)	pH	EC (µS/cm)	Multiplying Factor	EC _e (dS/m)	Classification
TP69	0.4-0.5	4.3	770	8	6.16	B1
TP69	0.8-0.9	4.4	870	8	6.96	B1
TP70	0.4-0.5	4.6	550	8	4.4	A2
TP70	0.8-0.9	4.8	500	8	4	A2
TP71	0.4-0.5	4.7	730	8	5.84	A2
TP71	0.8-0.9	4.5	850	8	6.8	A2
TP72	0.4-0.5	4.6	830	8	6.64	A2
TP72	0.8-0.9	4.7	930	8	7.44	A2

* The multiplication factor (MF) is a function of the soil texture and description (Site Investigations for Urban Salinity – 2002)
 EC_e (Corrected Electrical Conductivity = MF x EC

Specifications

Electrical Conductivity (EC) testing was carried out to assess soil salinity, as outlined in the Department of Environment and Heritage (DEH) 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 based on the texture of the soil sample (varying from 6 to 17) to obtain Corrected Electrical Conductivity (see Table 2) designated as EC_e. Based on site observation, a multiplication factor of 8 was used for the soil 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.

8599/74-AA-R1
Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

Conclusion

Based on the procedures described in AS2870-2011 the exposure classifications for the proposed lots are shown in Table 3.

Table 3 – Site Exposure Classifications (AS2870-2011)

Lot	Exposure Classification	Lot	Exposure Classification	Lot	Exposure Classification
7401	A2	7434	A2	7467	A2
7402	A2	7435	B1	7468	B1
7403	A2	7436	B1	7469	B1
7404	A2	7437	B1	7470	B1
7405	A2	7438	B1	7471	B1
7406	A2	7439	B1	7472	A2
7407	A2	7440	B1	7473	A2
7408	A2	7441	B1	7474	A2
7409	A2	7442	B1	7475	A2
7410	A2	7443	B1	7476	A2
7411	A2	7444	B1	7477	A2
7412	A2	7445	A2	7478	A2
7413	A2	7446	A2	7479	A2
7414	A2	7447	A2	7480	A2
7415	A2	7448	A2	7481	A2
7416	A2	7449	A2	7482	A2
7417	B1	7450	A2	7483	A2
7418	B1	7451	A2	7484	A2
7419	B1	7452	A2	7485	A2
7420	B1	7453	A2	7486	A2
7421	A2	7454	A2	7487	B1
7422	A2	7455	A2	7488	B1
7423	A2	7456	A2	7489	B1
7424	A2	7457	A2	7490	B1
7425	A2	7458	A2	7491	B1
7426	A2	7459	A2	7492	B1
7427	A2	7460	A2	7493	B1
7428	A2	7461	A2	7494	B1
7429	A2	7462	A2	7495	A2
7430	A2	7463	A2	7496	A2
7431	A2	7464	A2	7497	A2
7432	A2	7465	A2	7498	A2
7433	A2	7466	A2	7499	A2

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

Table 3 – Site Exposure Classifications (AS2870-2011) (Continued)

Lot	Exposure Classification	Lot	Exposure Classification	Lot	Exposure Classification
7500	A2	7533	A2	7566	A2
7501	A2	7534	A2	7567	A2
7502	A2	7535	A2	7568	A2
7503	A2	7536	A2	7569	A2
7504	A2	7537	A2	7570	A2
7505	A2	7538	A2	7571	A2
7506	A2	7539	A2	7572	A2
7507	A2	7540	A2	7573	B1
7508	A2	7541	A2	7574	B1
7509	A2	7542	A2	7575	B1
7510	A2	7543	A2	7576	B1
7511	A2	7544	A2	7577	B1
7512	A2	7545	A2	7578	B1
7513	A2	7546	A2	7579	B1
7514	A2	7547	A2	7580	B1
7515	A2	7548	A2	7581	B1
7516	A2	7549	A2	7582	B1
7517	A2	7550	A2	7583	A2
7518	A2	7551	A2	7584	A2
7519	A2	7552	A2	7585	A2
7520	A2	7553	A2	7586	A2
7521	A2	7554	A2	7587	A2
7522	A2	7555	A2	7588	A2
7523	A2	7556	A2	7589	A2
7524	A2	7557	A2	7590	A2
7525	A2	7558	A2	7591	A2
7526	A2	7559	A2	7592	A2
7527	A2	7560	A2	7593	A2
7528	A2	7561	A2	7594	A2
7529	A2	7562	A2	7595	A2
7530	A2	7563	A2	7596	A2
7531	A2	7564	A2	7597	A2
7532	A2	7565	A2	7598	A2

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

Table 3 – Site Exposure Classifications (AS2870-2011) (Continued)

Lot	Exposure Classification	Lot	Exposure Classification
7599	A2	7632	B1
7600	A2	7633	B1
7601	A2	7634	B1
7602	A2	7635	B1
7603	A2	7636	B1
7604	A2	7637	B1
7605	A2	7638	A2
7606	B1	7639	A2
7607	B1	7640	A2
7608	B1	7641	A2
7609	B1	7642	A2
7610	B1	7643	A2
7611	B1	7644	A2
7612	A2	7645	A2
7613	A2	7646	A2
7614	A2	7647	A2
7615	A2	7648	A2
7616	A2	7649	A2
7617	A2	7650	A2
7618	A2	7651	A2
7619	A2	7652	A2
7620	A2	7653	A2
7621	A2	7654	A2
7622	A2	7655	A2
7623	A2		
7624	A2		
7625	A2		
7626	A2		
7627	A2		
7628	A2		
7629	A2		
7630	A2		
7631	A2		

8599/74-AA-R1

Newpark Precinct 7 Stage 7B - Abell Road, Marsden Park

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 and B2 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
B2	40 MPa	7 days

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

Yours faithfully
GEOTECH TESTING PTY LTD



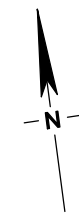
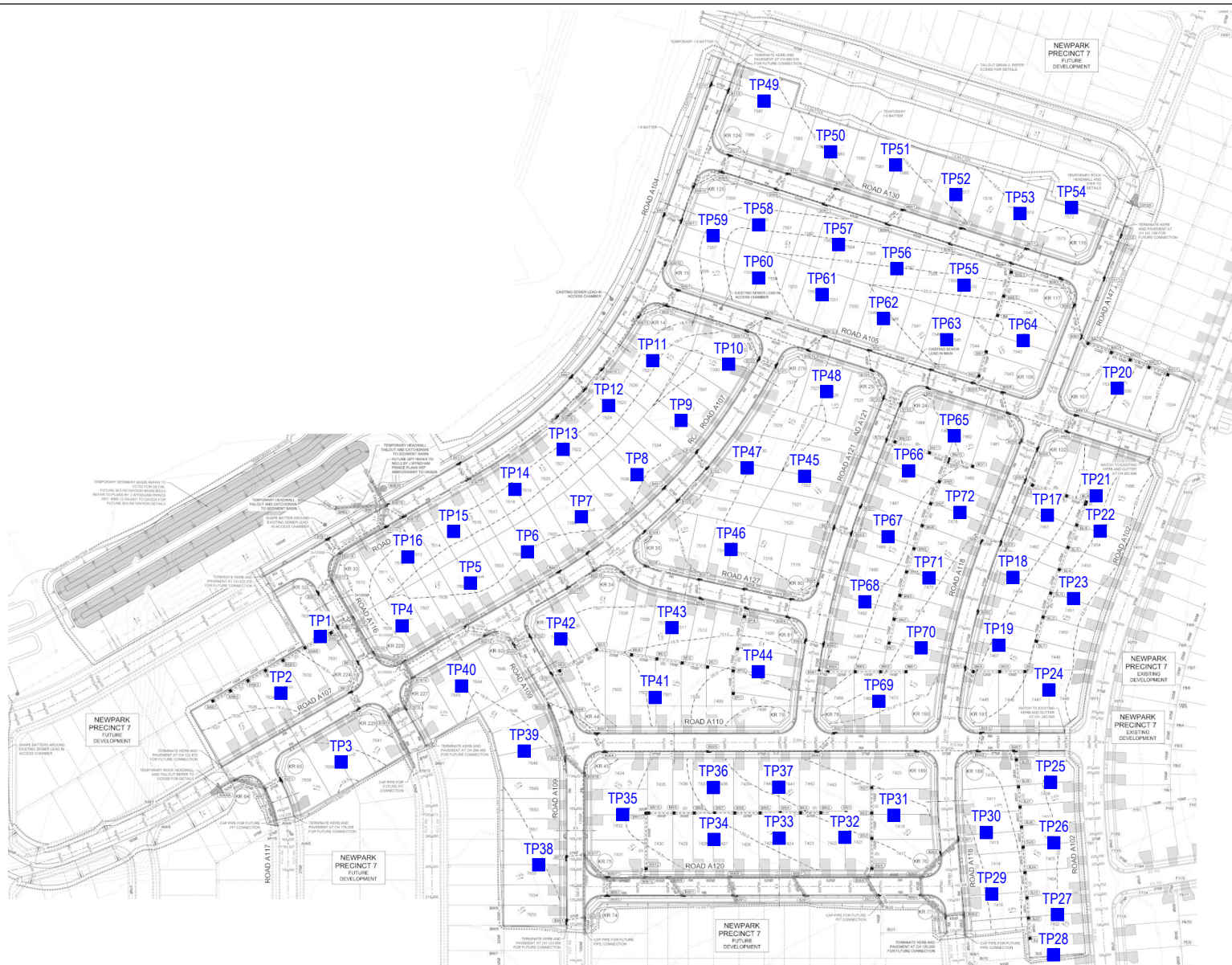
JACK-SCOTT HERBEN
Geotechnical Engineer

Reviewed by



EMGED RIZKALLA
Director

Attached Drawing No 8599/73-AA1 - Test Pit Location Plan
Table A – Summary of Test Pits
SGS Laboratory Test Results



LEGEND

■ Test Pit



34 Borec Road
Penrith
NSW 2750
ABN 71 076 676 321

Ph: 02 4722 2744
Fx: 02 4722 2777
www.geotech.com.au
e-mail: info@geotech.com.au

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 Stage 7B
Marsden Park

Test Pit Locations

Drawing No: 8599/73-AA1
Job No: 8599/73
Drawn By: MH
Date: 19 September 2022
Checked By: JSH

File No: 8599-73
Layers: 0, AA1

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP1	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CL-CI) Silty Gravelly CLAY, low to medium plasticity, brown, medium to coarse grain subangular gravel, trace of medium grain subrounded cobble, M<PL, stiff
TP2	0.0-0.3		TOPSOIL: Silty Clay, low plasticity, dark brown
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CL-CI) Silty Gravelly CLAY, low to medium plasticity, brown-red, medium to coarse grain subangular gravel, trace of medium grain subrounded cobble, M≤PL, stiff
TP3	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, dark brown, trace of medium grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, brown, trace of fine to coarse subangular gravel, M≤PL, stiff,
TP4	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium grain subangular gravel
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Gravelly Clay, high plasticity, dark brown, medium grain subangular gravel, trace of medium grain subrounded cobble, M≤PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, dark brown, medium grain subangular gravel, trace of medium grain subrounded cobble, trace of ironstone pockets, M≤PL, stiff
TP5	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Clay, high plasticity, brown-grey, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, M≤PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, brown-grey, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, M≤PL, stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP6	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Clay, high plasticity, brown, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, M _≤ PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, brown, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, trace of ironstone pockets, M _≤ PL, stiff
TP7	0.0-0.3		TOPSOIL: Silty Clay, low plasticity, brown
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Clay, high plasticity, brown, trace of medium grain subrounded cobble, trace of coarse grain subangular gravel, M _≤ PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CL) Silty CLAY, high plasticity, brown, trace of medium grain subrounded cobble, trace of ironstone pockets, trace of coarse grain subangular gravel, M _≤ PL, stiff
TP8	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, M _≤ PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, trace of ironstone pockets, M _≤ PL, stiff
TP9	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, M _≤ PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, trace of ironstone pockets, M _≤ PL, stiff
TP10	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, M _≤ PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, trace of ironstone pockets, M _≤ PL, stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP11	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium grain subrounded cobble
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, M _s PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP12	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium grain subrounded cobble
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, M _s PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP13	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium grain subrounded cobble
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, M _s PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP14	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium grain subrounded cobble
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, M _s PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

Page 4 of 13

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP15	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium grain subrounded cobble
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, M _s PL, well compacted
	0.6-1.5	0.7-0.9 (U ₅₀) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP16	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium grain subrounded cobble
	0.3-0.6	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, M _s PL, well compacted
	0.6-1.5	0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP17	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, red-grey, medium to coarse grain subangular gravel, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.6-0.8 (U ₅₀) 0.8-0.9 (DS)	(CI-CH) Silty Gravelly Sandy CLAY, medium to high plasticity, grey-brown-orange, fine to medium grain sand, medium grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP18	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, red-grey, medium to coarse grain subangular gravel, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CI-CH) Silty Gravelly Sandy CLAY, medium to high plasticity, brown, fine to medium grain sand, medium to coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP19	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown-grey, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown-grey, medium grain subrounded cobble, trace of ironstone pockets, trace of medium to coarse grain subangular gravel, M _s PL, stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP20	0.0-0.3		TOPSOIL: Silty Gravelly Clay, low plasticity, dark brown, medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.4-0.6 (U ₅₀) 0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, brown-grey, medium grain subangular gravel, trace of medium grain subrounded cobble, trace of ironstone pockets, M _s PL, stiff
TP21	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, red-grey, medium to coarse grain subangular gravel, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CI-CH) Silty Gravelly Sandy CLAY, medium to high plasticity, grey-brown-orange, fine to medium grain sand, medium grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP22	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, grey-brown
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, grey-brown, medium to coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff to very stiff
TP23	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, grey-brown
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, grey-brown, medium grain subangular gravel, trace of ironstone pockets, M _s PL, stiff to very stiff
TP24	0.0-0.3		TOPSOIL: Silty Gravelly Clay, low plasticity, grey-orange-brown, medium grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CL) Silty Gravelly CLAY, low plasticity, grey-orange, medium grain subangular gravel, trace of ironstone pockets, M _s <PL, VSt
TP25	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown-red, medium grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CI-CH) Silty Gravelly CLAY, medium to high plasticity, brown, medium to coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

Page 6 of 13

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP26	0.0-0.3		TOPSOIL: Silty Gravelly Clay, low plasticity, brown, medium grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CL) Silty Gravelly CLAY, low plasticity, brown-orange, medium to coarse grain subangular gravel, trace of ironstone pockets, M<PL, stiff to very stiff
TP27	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, dark brown-red, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, brown-orange, trace of ironstone pockets, trace of medium grain subrounded cobble, trace of shale fragments, trace of medium to coarse grain subangular gravel, M≤PL, stiff to very stiff
TP28	0.0-0.3		TOPSOIL: Silty Clay, low plasticity, dark brown
	0.3-1.5	0.4-0.5 (DS) 0.6-0.8 (U ₅₀) 0.8-0.9 (DS)	(CL) Silty CLAY, low plasticity, grey-orange, trace of medium to coarse grain subangular gravel, trace of ironstone pockets, trace of medium grain subrounded cobble, M≤PL, stiff
TP29	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, grey-orange, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, trace of ironstone pockets, M≤PL, stiff
TP30	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, grey-orange, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, trace of ironstone pockets, M≤PL, stiff
TP31	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, red-grey
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, red-grey, trace of medium grain subrounded cobble, trace of ironstone pockets, trace of medium to coarse grain subangular gravel, M≤PL, stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP32	0.0-0.3		TOPSOIL: Silty Clay, low plasticity, grey-brown, trace of medium grain subrounded cobble
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CL) Silty Cobbly CLAY, low plasticity, grey-brown, medium grain subrounded cobble, trace of ironstone pockets, M<PL, stiff to very stiff
TP33	0.0-0.3		TOPSOIL: Silty Clay, low plasticity, grey-brown, trace of medium grain subrounded cobble
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CL) Silty Cobbly CLAY, low plasticity, grey-brown, medium grain subrounded cobble, trace of ironstone pockets, M<PL, stiff to very stiff
TP34	0.0-0.3		TOPSOIL: Silty Clay, low plasticity, grey-brown, trace of medium grain subrounded cobble
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CL) Silty Cobbly CLAY, low plasticity, grey-brown, medium grain subrounded cobble, trace of ironstone pockets, M<PL, stiff to very stiff
TP35	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, red-brown
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, red-brown, trace of medium to coarse grain subangular gravel, trace of medium grain subrounded cobble, M≤PL, stiff
TP36	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, red-brown
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, brown, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, M≤PL, stiff to very stiff
TP37	0.0-0.3		TOPSOIL: Silty Cobbly Clay, high plasticity, brown-orange, medium grain subrounded cobble, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown-orange, medium grain subrounded cobble, trace of ironstone pockets, trace of medium to coarse grain subangular gravel, M≤PL, stiff
TP38	0.0-0.3		TOPSOIL: Silty Gravelly Clay, low plasticity, dark brown, medium grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, brown, medium to coarse grain subangular gravel, M≤PL, stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

Page 8 of 13

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP39	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, dark brown
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, brown-red, trace of medium grain subrounded cobble, trace of ironstone pockets, trace of medium to coarse grain subangular gravel, M _s PL, stiff
TP40	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, dark brown-red
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS) 0.4-0.6 (U ₅₀)	(CH) Silty CLAY, high plasticity, brown, trace of medium grain subrounded cobble, trace of ironstone pockets, trace of medium to coarse grain subangular gravel, M _s PL, stiff
TP41	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, trace of medium to coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP42	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP43	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, trace of medium to coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP44	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, grey, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.3-0.4 (atterberg) 0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, grey, medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, M _s PL, stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

Page 9 of 13

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP45	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, dark brown, medium grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, grey-brown, medium grain subrounded cobble, trace of ironstone pockets, trace of medium to coarse grain subangular gravel, M _s PL, stiff
TP46	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown
	0.3-0.5	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of shale fragments, trace of medium to coarse grain subangular gravels, M _s PL, well compacted
	0.5-1.5	0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of shale fragments, trace of ironstone pockets, trace of medium to coarse grain subangular gravels, M _s PL, stiff
TP47	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown, medium grain sub angular gravel
	0.3-0.5	0.4-0.5 (DS)	FILL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of shale fragments, M _s PL, well compacted
	0.5-1.5	0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of shale fragments, trace of ironstone pockets, M _s PL, stiff
TP48	0.0-0.3		TOPSOIL: Silty Clay, low plasticity, dark brown
	0.3-0.5	0.4-0.5 (DS) 0.4-0.5 (atterberg)	FILL: Silty Clay, medium to high plasticity, brown, trace of medium grain subrounded cobble, M _s PL, well compacted
	0.5-1.5	0.8-0.9 (DS)	(CH) Silty CLAY, medium to high plasticity, brown, trace of medium grain subrounded cobble, M _s PL, stiff
TP49	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, grey-brown, trace of ironstone gravel, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.6-0.8 (U ₅₀) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, brown, trace of ironstone pockets, medium to coarse grain subangular gravel, M _s PL, stiff to very stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP50	0.0-0.3		TOPSOIL: Silty Clay, medium to high plasticity, brown, trace of medium to coarse grain subangular gravel, trace of shale fragments, trace of medium grain subrounded cobble
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CI-CH) Silty CLAY, medium to high plasticity, brown, trace of medium grain subrounded cobble, trace of ironstone pockets, trace of medium to coarse grain subangular gravel, M _≤ PL, stiff
TP51	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, red-brown, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, red-brown-grey, medium to coarse grain subangular gravel, trace of ironstone pockets, M _≤ PL, stiff
TP52	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, grey, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.6-0.8 (atterberg) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, grey, trace of ironstone pockets, trace of medium to coarse grain subangular gravel, M _≤ PL, stiff
TP53	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, grey-orange, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.6-0.8 (atterberg) 0.8-0.9 (DS)	(CL) Silty Cobbly CLAY, low plasticity, orange-grey, medium grain subrounded cobble, trace of ironstone pockets, M _≤ PL, stiff
TP54	0.0-0.3		TOPSOIL: Silty Clay, medium to high plasticity, orange-grey, trace of medium to coarse grain subangular gravel, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.6-0.8 (atterberg) 0.8-0.9 (DS)	(CI-CH) Silty Gravelly CLAY, medium to high plasticity, orange-grey, medium to coarse grain subangular gravel, with ironstone pockets, M _≤ PL, stiff
TP55	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, grey-brown, trace of ironstone gravel, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.4-0.6 (U ₅₀) 0.6-0.8 (atterberg) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, brown, trace of ironstone pockets, trace of medium to coarse grain subangular gravel, M _≤ PL, stiff to very stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP56	0.0-0.3		TOPSOIL: Silty Clay, low plasticity, grey-red, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CL) Silty CLAY, low plasticity, grey-red, trace of ironstone pockets, trace of medium to coarse grain subangular gravel, M _s PL, stiff
TP57	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, red-brown
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, red-brown-grey, trace of medium grain subrounded cobble, trace of ironstone pockets, M _s PL, stiff
TP58	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, dark brown
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, red-brown, trace of ironstone pockets, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, M _s PL, stiff
TP59	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, grey-brown
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, dark red-brown, trace of medium to coarse grain subangular gravel, M _s PL, stiff
TP60	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, brown, medium to coarse grain subangular gravel, trace of medium grain subrounded cobble, M _s PL, stiff
TP61	0.0-0.3		TOPSOIL: Silty Cobbly Clay, high plasticity, brown, medium grain subrounded cobble, trace of ironstone gravel, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP61	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown-grey, medium to coarse grain subangular gravel, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown-grey, medium grain subrounded cobble, trace of ironstone gravel, M _s PL, stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

Page 12 of 13

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP63	0.0-0.3		TOPSOIL: Silty Clay, low plasticity, brown, trace of ironstone gravel, trace of medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CL) Silty CLAY, low plasticity, brown, trace of ironstone pockets, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, M _s PL, stiff
TP64	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, brown-orange-red, trace of ironstone gravel, trace of medium grain subrounded cobble
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty CLAY, medium to high plasticity, brown-red, trace of ironstone pockets, trace of medium grain subrounded cobble, trace of medium to coarse grain subangular gravel, M _s PL, stiff
TP65	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown-red, medium grain subangular gravel, trace of medium grain subrounded cobble, trace of ironstone gravel,
	0.3-0.8	0.4-0.5 (DS)	FILL: Silty Gravelly Clay, high plasticity, brown-red, medium to coarse grain subangular gravel, trace of medium grain subrounded cobble, M _s PL, well compacted
	0.8-1.5	0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, brown-red, medium to coarse grain subangular gravel, trace of ironstone pockets, trace of medium grain subrounded cobble, M _s PL, stiff
TP66	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown, medium to coarse grain subangular gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, brown, medium to coarse grain subangular gravel, trace of ironstone pockets, trace of medium grain subrounded cobble, M _s PL, stiff
TP67	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, grey-brown, medium to coarse grain subangular gravel, trace of ironstone gravel
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, grey-brown, medium to coarse grain subangular gravel, trace of ironstone pockets, trace of medium grain subrounded cobble, M _s PL, stiff

TABLE A

Job No: 8599/73
Our Ref: 8599/73-AA

Page 13 of 13

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP68	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown, medium to coarse grain subangular gravel, trace of medium grain subrounded cobble, trace of ironstone gravels
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Gravelly CLAY, high plasticity, brown grey, medium to coarse grain subangular gravel, trace of medium grain subrounded cobble, trace of ironstone pockets, M _s PL, stiff
TP69	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown, medium to coarse grain subangular gravel, trace of ironstone pockets, trace of medium grain subrounded cobble
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of ironstone pockets, M _s PL, stiff
TP70	0.0-0.3		TOPSOIL: Silty Gravelly Clay, high plasticity, brown, medium to coarse grain subangular gravel, trace of ironstone pockets, trace of medium grain subrounded cobble
	0.3-1.5	0.4-0.5 (DS) 0.8-0.9 (DS)	(CH) Silty Cobbly CLAY, high plasticity, brown, medium grain subrounded cobble, trace of ironstone pockets, M _s PL, stiff
TP71	0.0-0.3		TOPSOIL: Silty Gravelly Clay, low plasticity, grey-brown, medium to coarse grain subangular gravel, trace of ironstone gravel
	0.3-0.5	0.4-0.5 (DS)	FILL: Silty Gravelly Clay, low plasticity, grey-brown, medium grain subangular gravel, M _s PL, well compacted
	0.5-1.5	0.8-0.9 (DS)	(CL) Silty Gravelly CLAY, low plasticity, grey-brown, medium grain subangular gravel, trace of ironstone pockets, M _s PL, stiff
TP72	0.0-0.3		TOPSOIL: Silty Clay, high plasticity, grey, trace of ironstone gravel, M _s PL, stiff
	0.3-1.5	0.4-0.5 (DS) 0.4-0.6 (U ₅₀) 0.8-0.9 (DS)	(CH) Silty CLAY, high plasticity, grey, trace of ironstone pockets, M _s PL, stiff

CLIENT DETAILS

LABORATORY DETAILS

Contact	Kushal Bajracharya	Manager	Huong Crawford
Client	Geotech Testing Pty Ltd	Laboratory	SGS Alexandria Environmental
Address	P.O. Box 880 PENRITH NSW 2751	Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	02 4722 2700	Telephone	+61 2 8594 0400
Facsimile	02 4722 6161	Facsimile	+61 2 8594 0499
Email	kushal@geotech.com.au	Email	au.environmental.sydney@sgs.com
Project	8599/74 Stage 7B	SGS Reference	SE235939 R1
Order Number	8599/74	Date Received	24/8/2022
Samples	150	Date Reported	21/9/2022

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

This report cancels and supersedes the report No.SE235939 R0 dated 02/09/22 issued by SGS Environment, Health and Safety due to reporting TP72 to TP143 as requested.

SIGNATORIES



Dong LIANG
Metals/Inorganics Team Leader



Shane MCDERMOTT
Inorganic/Metals Chemist

pH in soil (1:5) [AN101] Tested: 1/9/2022

PARAMETER	UOM	LOR	TP72	TP72	TP73	TP73	TP74
			SOIL 0.4-0.5 22/8/2022 SE235939.007	SOIL 0.8-0.9 22/8/2022 SE235939.008	SOIL 0.4-0.5 22/8/2022 SE235939.009	SOIL 0.8-0.9 22/8/2022 SE235939.010	SOIL 0.4-0.5 22/8/2022 SE235939.011
pH	pH Units	0.1	5.0	5.1	4.4	5.0	4.9

PARAMETER	UOM	LOR	TP74	TP75	TP75	TP76	TP76
			SOIL 0.8-0.9 22/8/2022 SE235939.012	SOIL 0.4-0.5 22/8/2022 SE235939.013	SOIL 0.8-0.9 22/8/2022 SE235939.014	SOIL 0.4-0.5 22/8/2022 SE235939.015	SOIL 0.8-0.9 22/8/2022 SE235939.016
pH	pH Units	0.1	4.9	4.4	4.8	5.0	6.0

PARAMETER	UOM	LOR	TP77	TP77	TP78	TP78	TP79
			SOIL 0.4-0.5 22/8/2022 SE235939.017	SOIL 0.8-0.9 22/8/2022 SE235939.018	SOIL 0.4-0.5 22/8/2022 SE235939.019	SOIL 0.8-0.9 22/8/2022 SE235939.020	SOIL 0.4-0.5 22/8/2022 SE235939.021
pH	pH Units	0.1	6.0	5.3	5.3	5.7	5.4

PARAMETER	UOM	LOR	TP79	TP80	TP80	TP81	TP81
			SOIL 0.8-0.9 22/8/2022 SE235939.022	SOIL 0.4-0.5 22/8/2022 SE235939.023	SOIL 0.8-0.9 22/8/2022 SE235939.024	SOIL 0.4-0.5 22/8/2022 SE235939.025	SOIL 0.8-0.9 22/8/2022 SE235939.026
pH	pH Units	0.1	4.7	5.3	5.0	4.9	5.1

PARAMETER	UOM	LOR	TP82	TP82	TP83	TP83	TP84
			SOIL 0.4-0.5 22/8/2022 SE235939.027	SOIL 0.8-0.9 22/8/2022 SE235939.028	SOIL 0.4-0.5 22/8/2022 SE235939.029	SOIL 0.8-0.9 22/8/2022 SE235939.030	SOIL 0.4-0.5 22/8/2022 SE235939.031
pH	pH Units	0.1	5.1	4.8	4.8	5.3	4.9

PARAMETER	UOM	LOR	TP84	TP85	TP85	TP86	TP86
			SOIL 0.8-0.9 22/8/2022 SE235939.032	SOIL 0.4-0.5 22/8/2022 SE235939.033	SOIL 0.8-0.9 22/8/2022 SE235939.034	SOIL 0.4-0.5 22/8/2022 SE235939.035	SOIL 0.8-0.9 22/8/2022 SE235939.036
pH	pH Units	0.1	4.8	4.8	5.8	4.8	5.2

PARAMETER	UOM	LOR	TP87	TP87	TP88	TP88	TP89
			SOIL 0.4-0.5 22/8/2022 SE235939.037	SOIL 0.8-0.9 22/8/2022 SE235939.038	SOIL 0.4-0.5 22/8/2022 SE235939.039	SOIL 0.8-0.9 22/8/2022 SE235939.040	SOIL 0.4-0.5 22/8/2022 SE235939.041
pH	pH Units	0.1	5.4	4.9	4.8	4.8	5.5

pH in soil (1:5) [AN101] Tested: 1/9/2022 (continued)

PARAMETER	UOM	LOR	TP89 SOIL 0.8-0.9 22/8/2022 SE235939.042	TP90 SOIL 0.4-0.5 22/8/2022 SE235939.043	TP90 SOIL 0.8-0.9 22/8/2022 SE235939.044	TP91 SOIL 0.4-0.5 22/8/2022 SE235939.045	TP91 SOIL 0.8-0.9 22/8/2022 SE235939.046
pH	pH Units	0.1	5.1	6.5	6.7	5.1	5.7

PARAMETER	UOM	LOR	TP92 SOIL 0.4-0.5 22/8/2022 SE235939.047	TP92 SOIL 0.8-0.9 22/8/2022 SE235939.048	TP93 SOIL 0.4-0.5 22/8/2022 SE235939.049	TP93 SOIL 0.8-0.9 22/8/2022 SE235939.050	TP94 SOIL 0.4-0.5 22/8/2022 SE235939.051
pH	pH Units	0.1	5.4	5.5	6.7	6.7	5.4

PARAMETER	UOM	LOR	TP94 SOIL 0.8-0.9 22/8/2022 SE235939.052	TP95 SOIL 0.4-0.5 22/8/2022 SE235939.053	TP95 SOIL 0.8-0.9 22/8/2022 SE235939.054	TP96 SOIL 0.4-0.5 22/8/2022 SE235939.055	TP96 SOIL 0.8-0.9 22/8/2022 SE235939.056
pH	pH Units	0.1	5.6	6.0	5.5	5.3	5.2

PARAMETER	UOM	LOR	TP97 SOIL 0.4-0.5 22/8/2022 SE235939.057	TP97 SOIL 0.8-0.9 22/8/2022 SE235939.058	TP98 SOIL 0.4-0.5 22/8/2022 SE235939.059	TP98 SOIL 0.8-0.9 22/8/2022 SE235939.060	TP99 SOIL 0.4-0.5 22/8/2022 SE235939.061
pH	pH Units	0.1	5.6	5.4	7.3	7.0	5.0

PARAMETER	UOM	LOR	TP99 SOIL 0.8-0.9 22/8/2022 SE235939.062	TP100 SOIL 0.4-0.5 22/8/2022 SE235939.063	TP100 SOIL 0.8-0.9 22/8/2022 SE235939.064	TP101 SOIL 0.4-0.5 22/8/2022 SE235939.065	TP101 SOIL 0.8-0.9 22/8/2022 SE235939.066
pH	pH Units	0.1	5.0	4.6	4.6	4.9	4.8

PARAMETER	UOM	LOR	TP102 SOIL 0.4-0.5 22/8/2022 SE235939.067	TP102 SOIL 0.8-0.9 22/8/2022 SE235939.068	TP103 SOIL 0.4-0.5 22/8/2022 SE235939.069	TP103 SOIL 0.8-0.9 22/8/2022 SE235939.070	TP104 SOIL 0.4-0.5 22/8/2022 SE235939.071
pH	pH Units	0.1	4.3	4.6	4.9	5.4	5.1

PARAMETER	UOM	LOR	TP104 SOIL 0.8-0.9 22/8/2022 SE235939.072	TP105 SOIL 0.4-0.5 22/8/2022 SE235939.073	TP105 SOIL 0.8-0.9 22/8/2022 SE235939.074	TP106 SOIL 0.4-0.5 22/8/2022 SE235939.075	TP106 SOIL 0.8-0.9 22/8/2022 SE235939.076
pH	pH Units	0.1	4.7	4.8	4.6	4.9	4.7

pH in soil (1:5) [AN101] Tested: 1/9/2022 (continued)

			TP107	TP107	TP108	TP108	TP109
			SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022
PARAMETER	UOM	LOR	SE235939.077	SE235939.078	SE235939.079	SE235939.080	SE235939.081
pH	pH Units	0.1	4.2	4.3	4.4	4.5	5.6

			TP109	TP110	TP110	TP111	TP111
			SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022
PARAMETER	UOM	LOR	SE235939.082	SE235939.083	SE235939.084	SE235939.085	SE235939.086
pH	pH Units	0.1	5.5	5.3	5.1	5.6	5.5

			TP112	TP112	TP113	TP113	TP114
			SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022
PARAMETER	UOM	LOR	SE235939.087	SE235939.088	SE235939.089	SE235939.090	SE235939.091
pH	pH Units	0.1	6.0	5.8	5.5	5.2	5.0

			TP114	TP115	TP115	TP116	TP116
			SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022
PARAMETER	UOM	LOR	SE235939.092	SE235939.093	SE235939.094	SE235939.095	SE235939.096
pH	pH Units	0.1	5.3	5.2	6.3	4.7	4.9

			TP117	TP117	TP118	TP118	TP119
			SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022
PARAMETER	UOM	LOR	SE235939.097	SE235939.098	SE235939.099	SE235939.100	SE235939.101
pH	pH Units	0.1	6.2	5.9	5.9	5.4	4.9

			TP119	TP120	TP120	TP121	TP121
			SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022
PARAMETER	UOM	LOR	SE235939.102	SE235939.103	SE235939.104	SE235939.105	SE235939.106
pH	pH Units	0.1	4.9	5.0	4.9	5.1	5.1

			TP122	TP122	TP123	TP123	TP124
			SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022
PARAMETER	UOM	LOR	SE235939.107	SE235939.108	SE235939.109	SE235939.110	SE235939.111
pH	pH Units	0.1	4.4	4.4	4.4	4.5	4.6

pH in soil (1:5) [AN101] Tested: 1/9/2022 (continued)

PARAMETER	UOM	LOR	TP124	TP125	TP125	TP126	TP126
			SOIL 0.8-0.9 22/8/2022 SE235939.112	SOIL 0.4-0.5 22/8/2022 SE235939.113	SOIL 0.8-0.9 22/8/2022 SE235939.114	SOIL 0.4-0.5 22/8/2022 SE235939.115	SOIL 0.8-0.9 22/8/2022 SE235939.116
pH	pH Units	0.1	4.4	4.7	4.7	5.2	5.2

PARAMETER	UOM	LOR	TP127	TP127	TP128	TP128	TP129
			SOIL 0.4-0.5 22/8/2022 SE235939.117	SOIL 0.8-0.9 22/8/2022 SE235939.118	SOIL 0.4-0.5 22/8/2022 SE235939.119	SOIL 0.8-0.9 22/8/2022 SE235939.120	SOIL 0.4-0.5 22/8/2022 SE235939.121
pH	pH Units	0.1	5.2	4.9	4.5	4.7	4.8

PARAMETER	UOM	LOR	TP129	TP130	TP130	TP131	TP131
			SOIL 0.8-0.9 22/8/2022 SE235939.122	SOIL 0.4-0.5 22/8/2022 SE235939.123	SOIL 0.8-0.9 22/8/2022 SE235939.124	SOIL 0.4-0.5 22/8/2022 SE235939.125	SOIL 0.8-0.9 22/8/2022 SE235939.126
pH	pH Units	0.1	4.5	4.6	7.4	5.4	7.6

PARAMETER	UOM	LOR	TP132	TP132	TP133	TP133	TP134
			SOIL 0.4-0.5 22/8/2022 SE235939.127	SOIL 0.8-0.9 22/8/2022 SE235939.128	SOIL 0.4-0.5 22/8/2022 SE235939.129	SOIL 0.8-0.9 22/8/2022 SE235939.130	SOIL 0.4-0.5 22/8/2022 SE235939.131
pH	pH Units	0.1	4.8	5.3	4.8	4.8	4.7

PARAMETER	UOM	LOR	TP134	TP135	TP135	TP136	TP136
			SOIL 0.8-0.9 22/8/2022 SE235939.132	SOIL 0.4-0.5 22/8/2022 SE235939.133	SOIL 0.8-0.9 22/8/2022 SE235939.134	SOIL 0.4-0.5 22/8/2022 SE235939.135	SOIL 0.8-0.9 22/8/2022 SE235939.136
pH	pH Units	0.1	5.0	4.6	4.8	4.7	4.7

PARAMETER	UOM	LOR	TP137	TP137	TP138	TP138	TP139
			SOIL 0.4-0.5 22/8/2022 SE235939.137	SOIL 0.8-0.9 22/8/2022 SE235939.138	SOIL 0.4-0.5 22/8/2022 SE235939.139	SOIL 0.8-0.9 22/8/2022 SE235939.140	SOIL 0.4-0.5 22/8/2022 SE235939.141
pH	pH Units	0.1	5.0	5.1	4.3	4.3	4.9

PARAMETER	UOM	LOR	TP139	TP140	TP140	TP141	TP141
			SOIL 0.8-0.9 22/8/2022 SE235939.142	SOIL 0.4-0.5 22/8/2022 SE235939.143	SOIL 0.8-0.9 22/8/2022 SE235939.144	SOIL 0.4-0.5 22/8/2022 SE235939.145	SOIL 0.8-0.9 22/8/2022 SE235939.146
pH	pH Units	0.1	4.3	4.3	4.4	4.6	4.8

pH in soil (1:5) [AN101] Tested: 1/9/2022 (continued)

PARAMETER	UOM	LOR	TP142	TP142	TP143	TP143
			SOIL 0.4-0.5 22/8/2022 SE235939.147	SOIL 0.8-0.9 22/8/2022 SE235939.148	SOIL 0.4-0.5 22/8/2022 SE235939.149	SOIL 0.8-0.9 22/8/2022 SE235939.150
pH	pH Units	0.1	4.7	4.5	4.6	4.7

Conductivity and TDS by Calculation - Soil [AN106] Tested: 1/9/2022

PARAMETER	UOM	LOR	TP72 SOIL 0.4-0.5 22/8/2022 SE235939.007	TP72 SOIL 0.8-0.9 22/8/2022 SE235939.008	TP73 SOIL 0.4-0.5 22/8/2022 SE235939.009	TP73 SOIL 0.8-0.9 22/8/2022 SE235939.010	TP74 SOIL 0.4-0.5 22/8/2022 SE235939.011
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	340	290	270	280	200

PARAMETER	UOM	LOR	TP74 SOIL 0.8-0.9 22/8/2022 SE235939.012	TP75 SOIL 0.4-0.5 22/8/2022 SE235939.013	TP75 SOIL 0.8-0.9 22/8/2022 SE235939.014	TP76 SOIL 0.4-0.5 22/8/2022 SE235939.015	TP76 SOIL 0.8-0.9 22/8/2022 SE235939.016
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	210	160	170	370	160

PARAMETER	UOM	LOR	TP77 SOIL 0.4-0.5 22/8/2022 SE235939.017	TP77 SOIL 0.8-0.9 22/8/2022 SE235939.018	TP78 SOIL 0.4-0.5 22/8/2022 SE235939.019	TP78 SOIL 0.8-0.9 22/8/2022 SE235939.020	TP79 SOIL 0.4-0.5 22/8/2022 SE235939.021
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	180	520	170	390	260

PARAMETER	UOM	LOR	TP79 SOIL 0.8-0.9 22/8/2022 SE235939.022	TP80 SOIL 0.4-0.5 22/8/2022 SE235939.023	TP80 SOIL 0.8-0.9 22/8/2022 SE235939.024	TP81 SOIL 0.4-0.5 22/8/2022 SE235939.025	TP81 SOIL 0.8-0.9 22/8/2022 SE235939.026
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	230	300	410	360	220

PARAMETER	UOM	LOR	TP82 SOIL 0.4-0.5 22/8/2022 SE235939.027	TP82 SOIL 0.8-0.9 22/8/2022 SE235939.028	TP83 SOIL 0.4-0.5 22/8/2022 SE235939.029	TP83 SOIL 0.8-0.9 22/8/2022 SE235939.030	TP84 SOIL 0.4-0.5 22/8/2022 SE235939.031
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	240	530	340	220	460

PARAMETER	UOM	LOR	TP84 SOIL 0.8-0.9 22/8/2022 SE235939.032	TP85 SOIL 0.4-0.5 22/8/2022 SE235939.033	TP85 SOIL 0.8-0.9 22/8/2022 SE235939.034	TP86 SOIL 0.4-0.5 22/8/2022 SE235939.035	TP86 SOIL 0.8-0.9 22/8/2022 SE235939.036
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	440	460	370	260	290

PARAMETER	UOM	LOR	TP87 SOIL 0.4-0.5 22/8/2022 SE235939.037	TP87 SOIL 0.8-0.9 22/8/2022 SE235939.038	TP88 SOIL 0.4-0.5 22/8/2022 SE235939.039	TP88 SOIL 0.8-0.9 22/8/2022 SE235939.040	TP89 SOIL 0.4-0.5 22/8/2022 SE235939.041
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	420	390	550	660	630

Conductivity and TDS by Calculation - Soil [AN106] Tested: 1/9/2022 (continued)

PARAMETER	UOM	LOR	TP89	TP90	TP90	TP91	TP91
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.042	SE235939.043	SE235939.044	SE235939.045	SE235939.046
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	600	360	460	890	540

PARAMETER	UOM	LOR	TP92	TP92	TP93	TP93	TP94
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022
			SE235939.047	SE235939.048	SE235939.049	SE235939.050	SE235939.051
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	630	570	480	640	600

PARAMETER	UOM	LOR	TP94	TP95	TP95	TP96	TP96
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.052	SE235939.053	SE235939.054	SE235939.055	SE235939.056
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	540	130	300	410	460

PARAMETER	UOM	LOR	TP97	TP97	TP98	TP98	TP99
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022
			SE235939.057	SE235939.058	SE235939.059	SE235939.060	SE235939.061
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	270	370	340	360	340

PARAMETER	UOM	LOR	TP99	TP100	TP100	TP101	TP101
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.062	SE235939.063	SE235939.064	SE235939.065	SE235939.066
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	250	780	920	520	640

PARAMETER	UOM	LOR	TP102	TP102	TP103	TP103	TP104
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022
			SE235939.067	SE235939.068	SE235939.069	SE235939.070	SE235939.071
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	1000	830	390	340	77

PARAMETER	UOM	LOR	TP104	TP105	TP105	TP106	TP106
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.072	SE235939.073	SE235939.074	SE235939.075	SE235939.076
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	150	52	48	240	360

Conductivity and TDS by Calculation - Soil [AN106] Tested: 1/9/2022 (continued)

PARAMETER	UOM	LOR	TP107 SOIL 0.4-0.5 22/8/2022 SE235939.077	TP107 SOIL 0.8-0.9 22/8/2022 SE235939.078	TP108 SOIL 0.4-0.5 22/8/2022 SE235939.079	TP108 SOIL 0.8-0.9 22/8/2022 SE235939.080	TP109 SOIL 0.4-0.5 22/8/2022 SE235939.081
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	480	350	49	52	160

PARAMETER	UOM	LOR	TP109 SOIL 0.8-0.9 22/8/2022 SE235939.082	TP110 SOIL 0.4-0.5 22/8/2022 SE235939.083	TP110 SOIL 0.8-0.9 22/8/2022 SE235939.084	TP111 SOIL 0.4-0.5 22/8/2022 SE235939.085	TP111 SOIL 0.8-0.9 22/8/2022 SE235939.086
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	160	330	280	230	200

PARAMETER	UOM	LOR	TP112 SOIL 0.4-0.5 22/8/2022 SE235939.087	TP112 SOIL 0.8-0.9 22/8/2022 SE235939.088	TP113 SOIL 0.4-0.5 22/8/2022 SE235939.089	TP113 SOIL 0.8-0.9 22/8/2022 SE235939.090	TP114 SOIL 0.4-0.5 22/8/2022 SE235939.091
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	36	78	280	400	360

PARAMETER	UOM	LOR	TP114 SOIL 0.8-0.9 22/8/2022 SE235939.092	TP115 SOIL 0.4-0.5 22/8/2022 SE235939.093	TP115 SOIL 0.8-0.9 22/8/2022 SE235939.094	TP116 SOIL 0.4-0.5 22/8/2022 SE235939.095	TP116 SOIL 0.8-0.9 22/8/2022 SE235939.096
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	230	110	47	170	93

PARAMETER	UOM	LOR	TP117 SOIL 0.4-0.5 22/8/2022 SE235939.097	TP117 SOIL 0.8-0.9 22/8/2022 SE235939.098	TP118 SOIL 0.4-0.5 22/8/2022 SE235939.099	TP118 SOIL 0.8-0.9 22/8/2022 SE235939.100	TP119 SOIL 0.4-0.5 22/8/2022 SE235939.101
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	670	380	280	210	130

PARAMETER	UOM	LOR	TP119 SOIL 0.8-0.9 22/8/2022 SE235939.102	TP120 SOIL 0.4-0.5 22/8/2022 SE235939.103	TP120 SOIL 0.8-0.9 22/8/2022 SE235939.104	TP121 SOIL 0.4-0.5 22/8/2022 SE235939.105	TP121 SOIL 0.8-0.9 22/8/2022 SE235939.106
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	150	400	340	410	490

PARAMETER	UOM	LOR	TP122 SOIL 0.4-0.5 22/8/2022 SE235939.107	TP122 SOIL 0.8-0.9 22/8/2022 SE235939.108	TP123 SOIL 0.4-0.5 22/8/2022 SE235939.109	TP123 SOIL 0.8-0.9 22/8/2022 SE235939.110	TP124 SOIL 0.4-0.5 22/8/2022 SE235939.111
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	160	110	760	770	49

Conductivity and TDS by Calculation - Soil [AN106] Tested: 1/9/2022 (continued)

PARAMETER	UOM	LOR	TP124 SOIL 0.8-0.9 22/8/2022 SE235939.112	TP125 SOIL 0.4-0.5 22/8/2022 SE235939.113	TP125 SOIL 0.8-0.9 22/8/2022 SE235939.114	TP126 SOIL 0.4-0.5 22/8/2022 SE235939.115	TP126 SOIL 0.8-0.9 22/8/2022 SE235939.116
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	62	45	47	160	300

PARAMETER	UOM	LOR	TP127 SOIL 0.4-0.5 22/8/2022 SE235939.117	TP127 SOIL 0.8-0.9 22/8/2022 SE235939.118	TP128 SOIL 0.4-0.5 22/8/2022 SE235939.119	TP128 SOIL 0.8-0.9 22/8/2022 SE235939.120	TP129 SOIL 0.4-0.5 22/8/2022 SE235939.121
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	25	37	180	66	280

PARAMETER	UOM	LOR	TP129 SOIL 0.8-0.9 22/8/2022 SE235939.122	TP130 SOIL 0.4-0.5 22/8/2022 SE235939.123	TP130 SOIL 0.8-0.9 22/8/2022 SE235939.124	TP131 SOIL 0.4-0.5 22/8/2022 SE235939.125	TP131 SOIL 0.8-0.9 22/8/2022 SE235939.126
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	410	480	380	440	480

PARAMETER	UOM	LOR	TP132 SOIL 0.4-0.5 22/8/2022 SE235939.127	TP132 SOIL 0.8-0.9 22/8/2022 SE235939.128	TP133 SOIL 0.4-0.5 22/8/2022 SE235939.129	TP133 SOIL 0.8-0.9 22/8/2022 SE235939.130	TP134 SOIL 0.4-0.5 22/8/2022 SE235939.131
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	370	160	43	46	360

PARAMETER	UOM	LOR	TP134 SOIL 0.8-0.9 22/8/2022 SE235939.132	TP135 SOIL 0.4-0.5 22/8/2022 SE235939.133	TP135 SOIL 0.8-0.9 22/8/2022 SE235939.134	TP136 SOIL 0.4-0.5 22/8/2022 SE235939.135	TP136 SOIL 0.8-0.9 22/8/2022 SE235939.136
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	380	720	660	850	850

PARAMETER	UOM	LOR	TP137 SOIL 0.4-0.5 22/8/2022 SE235939.137	TP137 SOIL 0.8-0.9 22/8/2022 SE235939.138	TP138 SOIL 0.4-0.5 22/8/2022 SE235939.139	TP138 SOIL 0.8-0.9 22/8/2022 SE235939.140	TP139 SOIL 0.4-0.5 22/8/2022 SE235939.141
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	630	440	1200	1300	350

PARAMETER	UOM	LOR	TP139 SOIL 0.8-0.9 22/8/2022 SE235939.142	TP140 SOIL 0.4-0.5 22/8/2022 SE235939.143	TP140 SOIL 0.8-0.9 22/8/2022 SE235939.144	TP141 SOIL 0.4-0.5 22/8/2022 SE235939.145	TP141 SOIL 0.8-0.9 22/8/2022 SE235939.146
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	420	770	870	550	500

Conductivity and TDS by Calculation - Soil [AN106] Tested: 1/9/2022 (continued)

PARAMETER	UOM	LOR	TP142	TP142	TP143	TP143
			SOIL 0.4-0.5 22/8/2022 SE235939.147	SOIL 0.8-0.9 22/8/2022 SE235939.148	SOIL 0.4-0.5 22/8/2022 SE235939.149	SOIL 0.8-0.9 22/8/2022 SE235939.150
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	730	850	830	930

Moisture Content [AN002] Tested: 28/8/2022

PARAMETER	UOM	LOR	TP72	TP72	TP73	TP73	TP74
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022
			SE235939.007	SE235939.008	SE235939.009	SE235939.010	SE235939.011
% Moisture	%w/w	1	13.1	10.7	16.4	13.7	17.8

PARAMETER	UOM	LOR	TP74	TP75	TP75	TP76	TP76
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.012	SE235939.013	SE235939.014	SE235939.015	SE235939.016
% Moisture	%w/w	1	15.2	20.8	19.3	15.0	9.6

PARAMETER	UOM	LOR	TP77	TP77	TP78	TP78	TP79
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022
			SE235939.017	SE235939.018	SE235939.019	SE235939.020	SE235939.021
% Moisture	%w/w	1	13.2	12.6	11.4	12.9	18.0

PARAMETER	UOM	LOR	TP79	TP80	TP80	TP81	TP81
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.022	SE235939.023	SE235939.024	SE235939.025	SE235939.026
% Moisture	%w/w	1	12.3	15.9	17.5	11.6	14.9

PARAMETER	UOM	LOR	TP82	TP82	TP83	TP83	TP84
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022
			SE235939.027	SE235939.028	SE235939.029	SE235939.030	SE235939.031
% Moisture	%w/w	1	11.0	20.5	14.5	13.5	12.7

PARAMETER	UOM	LOR	TP84	TP85	TP85	TP86	TP86
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.032	SE235939.033	SE235939.034	SE235939.035	SE235939.036
% Moisture	%w/w	1	12.9	16.3	12.3	15.9	11.3

PARAMETER	UOM	LOR	TP87	TP87	TP88	TP88	TP89
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022
			SE235939.037	SE235939.038	SE235939.039	SE235939.040	SE235939.041
% Moisture	%w/w	1	14.4	17.1	7.9	12.9	13.0

Moisture Content [AN002] Tested: 28/8/2022 (continued)

PARAMETER	UOM	LOR	TP89	TP90	TP90	TP91	TP91
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.042	SE235939.043	SE235939.044	SE235939.045	SE235939.046
% Moisture	%w/w	1	8.0	12.7	13.1	17.9	13.6

PARAMETER	UOM	LOR	TP92	TP92	TP93	TP93	TP94
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022
			SE235939.047	SE235939.048	SE235939.049	SE235939.050	SE235939.051
% Moisture	%w/w	1	18.4	15.3	11.0	13.0	11.1

PARAMETER	UOM	LOR	TP94	TP95	TP95	TP96	TP96
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.052	SE235939.053	SE235939.054	SE235939.055	SE235939.056
% Moisture	%w/w	1	11.5	8.6	12.1	18.7	16.1

PARAMETER	UOM	LOR	TP97	TP97	TP98	TP98	TP99
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022
			SE235939.057	SE235939.058	SE235939.059	SE235939.060	SE235939.061
% Moisture	%w/w	1	10.2	19.1	4.6	10.6	13.1

PARAMETER	UOM	LOR	TP99	TP100	TP100	TP101	TP101
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.062	SE235939.063	SE235939.064	SE235939.065	SE235939.066
% Moisture	%w/w	1	14.0	14.8	14.1	17.4	17.6

PARAMETER	UOM	LOR	TP102	TP102	TP103	TP103	TP104
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022
			SE235939.067	SE235939.068	SE235939.069	SE235939.070	SE235939.071
% Moisture	%w/w	1	13.6	14.1	12.2	10.1	17.5

PARAMETER	UOM	LOR	TP104	TP105	TP105	TP106	TP106
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022	0.4-0.5 22/8/2022	0.8-0.9 22/8/2022
			SE235939.072	SE235939.073	SE235939.074	SE235939.075	SE235939.076
% Moisture	%w/w	1	19.3	9.5	15.1	19.7	20.2

Moisture Content [AN002] Tested: 28/8/2022 (continued)

			TP107	TP107	TP108	TP108	TP109
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5	0.8-0.9	0.4-0.5	0.8-0.9	0.4-0.5
			22/8/2022	22/8/2022	22/8/2022	22/8/2022	22/8/2022
PARAMETER	UOM	LOR	SE235939.077	SE235939.078	SE235939.079	SE235939.080	SE235939.081
% Moisture	%w/w	1	20.7	17.8	19.5	19.8	20.6

			TP109	TP110	TP110	TP111	TP111
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9	0.4-0.5	0.8-0.9	0.4-0.5	0.8-0.9
			22/8/2022	22/8/2022	22/8/2022	22/8/2022	22/8/2022
PARAMETER	UOM	LOR	SE235939.082	SE235939.083	SE235939.084	SE235939.085	SE235939.086
% Moisture	%w/w	1	22.8	17.9	18.5	17.1	14.2

			TP112	TP112	TP113	TP113	TP114
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5	0.8-0.9	0.4-0.5	0.8-0.9	0.4-0.5
			22/8/2022	22/8/2022	22/8/2022	22/8/2022	22/8/2022
PARAMETER	UOM	LOR	SE235939.087	SE235939.088	SE235939.089	SE235939.090	SE235939.091
% Moisture	%w/w	1	12.6	11.3	16.1	18.5	17.6

			TP114	TP115	TP115	TP116	TP116
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9	0.4-0.5	0.8-0.9	0.4-0.5	0.8-0.9
			22/8/2022	22/8/2022	22/8/2022	22/8/2022	22/8/2022
PARAMETER	UOM	LOR	SE235939.092	SE235939.093	SE235939.094	SE235939.095	SE235939.096
% Moisture	%w/w	1	16.5	19.7	12.2	19.6	18.8

			TP117	TP117	TP118	TP118	TP119
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5	0.8-0.9	0.4-0.5	0.8-0.9	0.4-0.5
			22/8/2022	22/8/2022	22/8/2022	22/8/2022	22/8/2022
PARAMETER	UOM	LOR	SE235939.097	SE235939.098	SE235939.099	SE235939.100	SE235939.101
% Moisture	%w/w	1	22.6	14.4	12.4	13.3	11.7

			TP119	TP120	TP120	TP121	TP121
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.8-0.9	0.4-0.5	0.8-0.9	0.4-0.5	0.8-0.9
			22/8/2022	22/8/2022	22/8/2022	22/8/2022	22/8/2022
PARAMETER	UOM	LOR	SE235939.102	SE235939.103	SE235939.104	SE235939.105	SE235939.106
% Moisture	%w/w	1	11.6	14.3	17.4	11.6	13.0

			TP122	TP122	TP123	TP123	TP124
			SOIL	SOIL	SOIL	SOIL	SOIL
			0.4-0.5	0.8-0.9	0.4-0.5	0.8-0.9	0.4-0.5
			22/8/2022	22/8/2022	22/8/2022	22/8/2022	22/8/2022
PARAMETER	UOM	LOR	SE235939.107	SE235939.108	SE235939.109	SE235939.110	SE235939.111
% Moisture	%w/w	1	15.1	16.5	17.2	16.2	14.8

Moisture Content [AN002] Tested: 28/8/2022 (continued)

			TP124	TP125	TP125	TP126	TP126
			SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022
PARAMETER	UOM	LOR	SE235939.112	SE235939.113	SE235939.114	SE235939.115	SE235939.116
% Moisture	%w/w	1	15.9	14.7	16.3	14.6	17.7

			TP127	TP127	TP128	TP128	TP129
			SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022
PARAMETER	UOM	LOR	SE235939.117	SE235939.118	SE235939.119	SE235939.120	SE235939.121
% Moisture	%w/w	1	18.3	18.8	18.2	15.9	14.8

			TP129	TP130	TP130	TP131	TP131
			SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022
PARAMETER	UOM	LOR	SE235939.122	SE235939.123	SE235939.124	SE235939.125	SE235939.126
% Moisture	%w/w	1	14.3	14.6	15.0	15.7	13.9

			TP132	TP132	TP133	TP133	TP134
			SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022
PARAMETER	UOM	LOR	SE235939.127	SE235939.128	SE235939.129	SE235939.130	SE235939.131
% Moisture	%w/w	1	15.6	12.9	14.5	13.0	11.2

			TP134	TP135	TP135	TP136	TP136
			SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022
PARAMETER	UOM	LOR	SE235939.132	SE235939.133	SE235939.134	SE235939.135	SE235939.136
% Moisture	%w/w	1	12.0	14.8	15.5	18.1	17.2

			TP137	TP137	TP138	TP138	TP139
			SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022
PARAMETER	UOM	LOR	SE235939.137	SE235939.138	SE235939.139	SE235939.140	SE235939.141
% Moisture	%w/w	1	19.9	3.1	13.3	18.4	14.6

			TP139	TP140	TP140	TP141	TP141
			SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022	SOIL 0.4-0.5 22/8/2022	SOIL 0.8-0.9 22/8/2022
PARAMETER	UOM	LOR	SE235939.142	SE235939.143	SE235939.144	SE235939.145	SE235939.146
% Moisture	%w/w	1	15.5	15.9	18.8	16.0	17.4

Moisture Content [AN002] Tested: 28/8/2022 (continued)

PARAMETER	UOM	LOR	TP142	TP142	TP143	TP143
			SOIL 0.4-0.5 22/8/2022 SE235939.147	SOIL 0.8-0.9 22/8/2022 SE235939.148	SOIL 0.4-0.5 22/8/2022 SE235939.149	SOIL 0.8-0.9 22/8/2022 SE235939.150
% Moisture	%w/w	1	11.4	12.1	13.2	12.9

METHOD

METHODOLOGY SUMMARY

AN002

The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.

AN101

pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl₂) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.

AN106

Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as µmhos/cm or µS/cm @ 25°C. For soils, an extract of as received sample with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Salinity can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. Reference APHA 2510 B.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received. Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- a. 1 Bq is equivalent to 27 pCi
- b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This report must not be reproduced, except in full.

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015		Sampling By: JSH,JC Job No 8599/94	
PH: 02 8594 0400 FAX: 02 8594 0499		Project:	
ATTN: Ms Emily Yin		Project Manager: KB Location: STAGE 7D & 7B	

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34

Sampling details						Results required by:						
Location	Depth	Soil	Water	EC (1:5)	pH	Sulphate	Chloride	ESP			Notes	Keep Sample
TP69	0.4-0.5	DSP		✓	✓						ESP=Exchnageable Sodium Percentage	
	0.8-0.9	DSP		✓	✓							
TP70	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP71	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP72	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP73	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP74	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP75	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP76	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP77	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP78	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP79	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP80	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP81	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP82	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP83	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP84	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP85	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							

SGS EHS Sydney COC
SE235939



Please Use Geotechnical Engineering Template for Reporting

Relinquished by		Received by	
Name	Signature	Name	Signature
Jack	JSH	M. Rous	29.8.02
Date			
6/05/2022			

Legend:

WG	USG	Undisturbed soil sample (glass jar)	DSP	Disturbed soil sample (small plastic bag)	* Purge & Trap
SGS	DSG	Disturbed soil sample (glass jar)	✓	Test required	# Geotechnique Screen
WP					

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015		Sampling By: JSH,JC		Job No 8599/94
PH: 02 8594 0400 ATTN: Ms Emily Yin		FAX: 02 8594 0499		Project:
		Project Manager: KB	Location: STAGE 7B	

Sampling details						Results required by:						
Location	Depth	Soil	Water	EC (1:5)	pH	Sulphate	Chloride	ESP			Notes	Keep Sample
35 36	TP86	0.4-0.5	DSP	✓	✓						ESP=Exchnageable Sodium Percentage	
		0.8-0.9	DSP	✓	✓							
37 38	TP87	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
39 40	TP88	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
41 42	TP89	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
43 44	TP90	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
45 46	TP91	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
47 48	TP92	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
49 50	TP93	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
51 52	TP94	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
53 54	TP95	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
55 56	TP96	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
57 58	TP97	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
59 60	TP98	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
61 62	TP99	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
63 64	TP100	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
65 66	TP101	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
67 68	TP102	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							

Please Use Geotechnical Engineering Template for Reporting

Relinquished by				Received by			
Name	Signature	Date	Name	Signature	Date		
Jack	JSH	6/05/2022	Emily Yin	[Signature]			
Legend:							
WG	USG	Undisturbed soil sample (glass jar)	DSP	Disturbed soil sample (small plastic bag)	*	Purge & Trap	
SGS	DSG	Disturbed soil sample (glass jar)	✓	Test required	#	Geotechnique Screen	
WP							

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015		Sampling By: JSH,JC Job No 8599/94 Project:	
PH: 02 8594 0400 ATTN: Ms Emily Yin	FAX: 02 8594 0499	Project Manager: KB	Location: STAGE 7B

Sampling details						Results required by:						
Location	Depth	Soil	Water	EC (1:5)	pH	Sulphate	Chloride	ESP			Notes	Keep Sample
TP103	0.4-0.5	DSP		✓	✓						ESP=Exchnageable Sodium Percentage	
	0.8-0.9	DSP		✓	✓							
TP104	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP105	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP106	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP107	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP108	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP109	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP110	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP111	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP112	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP113	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP114	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP115	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP116	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP117	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP118	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							
TP119	0.4-0.5	DSP		✓	✓							
	0.8-0.9	DSP		✓	✓							

70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102

Please Use Geotechnical Engineering Template for Reporting

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	
Jack	JSH	6/05/2022	<i>[Signature]</i>	<i>[Signature]</i>	24/8 @ 3.05

Legend:

WG	USG	Undisturbed soil sample (glass j	DSP	Disturbed soil sample (small plastic bag)	* Purge & Trap
SGS	DSG	Disturbed soil sample (glass jar)	✓	Test required	# Geotechnique Screen
WP					

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015		Sampling By: JSH,JC		Job No 8599/94	
PH: 02 8594 0400		FAX: 02 8594 0499		Project:	
ATTN: Ms Emily Yin		Project Manager: KB		Location: STAGE 7B	

Sampling details						Results required by:						
Location	Depth	Soil	Water	EC (1:5)	pH	Sulphate	Chloride	ESP			Notes	Keep Sample
103 104	TP120	0.4-0.5	DSP	✓	✓						ESP=Exchnageable Sodium Percentage	
		0.8-0.9	DSP	✓	✓							
105 106	TP121	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
107 108	TP122	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
109 110	TP123	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
111 112	TP124	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
113 114	TP125	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
115 116	TP126	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
117 118	TP127	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
119 120	TP128	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
121 122	TP129	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
123 124	TP130	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
125 126	TP131	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
127 128	TP132	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
129 130	TP133	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
131 132	TP134	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
133 134	TP135	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							
135 136	TP136	0.4-0.5	DSP	✓	✓							
		0.8-0.9	DSP	✓	✓							

Please Use Geotechnical Engineering Template for Reporting

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	
Jack	JSH	6/05/2022	<i>Emily Yin</i>	<i>[Signature]</i>	24/5 @ 3.00

Legend:

WG	USG	Undisturbed soil sample (glass j	DSP	Disturbed soil sample (small plastic bag)	* Purge & Trap
SGS	DSG	Disturbed soil sample (glass jar)	✓	Test required	# Geotechnique Screen
WP					

GEOTECH TESTING PTY LTD

Laboratory Test Request / Chain of Custody Record

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

Page

9 of 9

TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015 PH: 02 8594 0400 ATTN: Ms Emily Yin	Sampling By: JSH,JC Job No 8599/94 Project: Project Manager: KB Location: STAGE 7B
FAX: 02 8594 0499	

Sampling details

Results required by:

137
138
139
140
141
142
143
144
145
146
147
148
149
150

Location	Depth	Soil	Water	EC (1:5)	pH	Sulphate	Chloride	ESP				Notes	Keep Sample
TP137	0.4-0.5	DSP		✓	✓							ESP=Exchnageable Sodium Percentage	
	0.8-0.9	DSP		✓	✓								
TP138	0.4-0.5	DSP		✓	✓								
	0.8-0.9	DSP		✓	✓								
TP139	0.4-0.5	DSP		✓	✓								
	0.8-0.9	DSP		✓	✓								
TP140	0.4-0.5	DSP		✓	✓								
	0.8-0.9	DSP		✓	✓								
TP141	0.4-0.5	DSP		✓	✓								
	0.8-0.9	DSP		✓	✓								
TP142	0.4-0.5	DSP		✓	✓								
	0.8-0.9	DSP		✓	✓								
TP143	0.4-0.5	DSP		✓	✓								
	0.8-0.9	DSP		✓	✓								

Please Use Geotechnical Engineering Template for Reporting

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	
Jack	JSH	6/05/2022	<i>Emily Yin</i>	<i>Jack</i>	

Legend:	USG	Undisturbed soil sample (glass jar)	DSP	Disturbed soil sample (small plastic bag)	* Purge & Trap
WG	DSG	Disturbed soil sample (glass jar)	✓	Test required	# Geotechnique Screen