

DESCRIPTION AND CLASSIFICATION OF SOILS SUMMARY SHEET TO ACCOMPANY ENGINEERING BORELOGS

Soils are logged by an experienced Geotechnical Engineer in accordance with the Unified Soil Classification (USC) System as outlined in AS 1726 -2017 "Geotechnical Site Investigations". Where laboratory investigations such as Particle Size Distribution and Atterberg Limit testing have been completed, soil classifications are required to be confirmed in accordance with the 'Laboratory Classification' section on Page 2.

CLASSIFICATION OF COARSE GRAINED SOILS

Major Divisions		ns	Field Identification	USC	Primary Descriptor
COARSE GRAINED SOILS More than 65% of material less than 63 mm is larger than 0.075mm	rse 6 mm	⊑ I	Well graded. Wide range in grain size and substantial amounts of all intermediate sizes.	GW	GRAVEL
		0.075mm	izes with more intermediate sizes missing. Coarse material with excess non -plastic fines.	GP 500	GRAVEL
	GRAVELS More than half of fraction larger than	>12% passing		GM	Silty GRAVEL
	Mon	0.075mm		GC	Clayey GRAVEL
	action (<12% passing	Vell graded. Wide range in grain size and substantial mounts of all intermediate sizes.	SW	SAND
	DS coarse fra 1 2.36mm	0.075mm	Poorly graded. Predominantly one size or a range of sizes with more intermediate sizes missing.	SP	SAND
	SANDS More than half of coarse fraction smaller than 2.36mm	>12% passing	Coarse material with excess non -plastic fines.	SM	Silty SAND
	More tha	0.075mm	Coarse material with excess plastic fines.	SC	Clayey SAND

For fines contents between 5% and 12%, the soil shall be given a dual classification comprising the two group symbols separated by a dash, e.g. for a gravel with between 5% and 12% silt fines, the classification is GP-GM.

CLASSIFICATION OF FINE GRAINED SOILS

Major Divisions		Field Identification		USC		Primary		
	major bivisions			Dilatancy	Toughness	030		Descriptor
FINE GRAINED SOILS 35% of material less than 63 mm is smaller than 0.075 mm SILTS & CLAYS	S.Y.S		None to Low	Slow to Rapid	Low	ML		SILT
			Medium to High	None to Slow	Medium	CL, CI		CLAY
	SILT (Lov F		Low to Medium	Slow	Low	OL		Organic SILT
FINE GRAINED 55% of material I smaller than 0.0	SILTS & CLAYS (high plasticity)	∞ ∺ \50%	Low to Medium	None to Slow	Low to Medium	МН		SILT
			High to Very High	None	High	СН		CLAY
More than			Medium to High	None to Very Slow	Low to Medium	ОН		Organic CLAY
HIGHLY ORGANIC SOIL		Identified by colour, odour, spongy feel and frequently fibrous texture		1	7 77 7 77 77 7 77 7	PEAT		

^{*} Plot results of Atterberg Limit testing on modified Casagrande Chart (See Page 2) for accurate classification

DESCRIPTORS FOR SECONDARY/MINOR SOIL COMPONENTS

		In Coarse	In Fine Grained Soils			
Designation	% Fines	Terminology	% Coarse Fraction	Terminology	% Sand/ Gravel	Terminology
Minor	<5	Add 'trace clay/silt" as applicable	<15	Add 'trace sand/gravel" as applicable	<15	Use 'Trace'
	>5, <12	Add 'with clay/silt" as applicable	>15, <30	Add 'with sand/gravel" as applicable	>15, <30	Add 'with sand/gravel" as applicable
Secondary	>12	Prefix soil name as 'Silty' or 'Clayey' as applicable	>30	Prefix soil name as 'Sandy' or 'Gravelly' as applicable	>30	Prefix soil name as 'Sandy' or 'Gravelly' as applicable



DESCRIPTION AND CLASSIFICATION OF SOILS SUMMARY SHEET TO ACCOMPANY ENGINEERING BORELOGS

MOISTURE CONDITION -

COARSE GRAINED SOILS

Name	Symbol	Field Guide to Moisture
Dry	D	Non-cohesive and free running
Moist	М	Feels cool, darkened in colour Soil tends to stick together
Wet	W	Feels cool, darkened in colour Soil tends to stick together Free water forms when handling

FINE GRAINED SOILS

Name	Symbol	Field Guide to Moisture
Moist/Dry of Plastic Limit	M <pl< td=""><td>Hard and friable or powdery</td></pl<>	Hard and friable or powdery
Moist/Near Plastic Limit	M~PL	Soils can be moulded at a moisture content approximately equal to the plastic limit
Moist/Wet of Plastic Limit	M>PL	Soils usually weakened and free water forms on hands when handling
Near Liquid Limit	M>>PL	Wet, near liquid limit

DENSITY/CONSISTENCY -

NON-COHESIVE SOILS

Name	Symbol	Density Index (%)
Very Loose	VL	<15
Loose	L	15 - 35
Moderately Dense	MD	35 - 65
Dense	D	65 - 85
Very Dense	VD	>85

COHESIVE SOILS

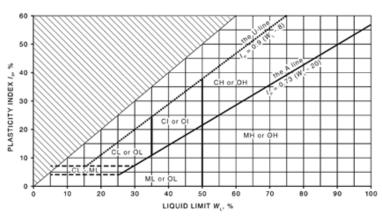
Consistency	Symbol	Field Guide to Consistency	S _u (kPa)	
Very Soft	VS	Exudes between the fingers when squeezed in h and	<12	
Soft	S	Can be moulded by light finger pressure	12-25	
Firm	F	Can be moulded by strong finger pressure	25–50	
Stiff	St	Cannot be moulded by fingers	50-100	
Very Stiff	VSt	Can be indented by thumb nail	100-200	
Hard	Н	Can be indented with difficulty by thumb nail	>200	
Friable	Fb	Can be easily crumbled or broken into small pieces by hand	N/A	

The undrained shear strength Su is assessed in the field using a pocket or hand penetrometer (PP). Su values are approximately half of the PP reading.

LABORATORY CLASSIFICATION - PARTICLE SIZE DEFINITIONS

Name	Fraction	Size (mm)
Bould	>200	
Cobb	63 - 200	
Gravel	Coarse Medium Fine	19 - 63 6.7 - 19 2.36 - 6.7
Sand	Coarse Medium Fine	0.6 - 2.36 0.21 - 0.6 0.075 - 0.21
Silt	0.002 - 0.075	
Clay		<0.002

MODIFIED CASAGRANDE CHART



DRILLING/EXCAVATION METHOD -

BH	Backhoe Bucket
PT	Push Tube
HFA	Hollow Flight Auger
HA	Hand Auger
N	Natural Exposure
Χ	Existing Excavation
AST	Auger Screwing + TC bit
ADT	Auger Drilling + TC bit
ASV	Auger Screwing + V bit
ADV	Auger Drilling + V bit

WATER -

Ī	Standing Water Level at Date 1 Shown			
∇	Standing Water Level at Date 2 Shown			
$ar{ar{m{\Lambda}}}$	Standing Water Level at Date 3 Shown			
to collapse of to	f groundwater was not possib le due est pit /borehole or similar, add to IDWATER NOT OBSERVED '			
If the test pit /borehole was dry soon after excavation add to notes: 'GROUNDWATER NOT ENCOUNTERED'				
permeable stra	vater may still be present in less ta, or inflows may have been he test pit /borehole been left open iod.)			

SAMPLING AND TESTING-

SPT	Standard Penetration Test – Results expressed as blows per 150mm (N Value = Sum of blows excluding 150mm seating).
PP	Pocket Penetrometer Test – Results expressed in 'Comments/ Observations' as instrument reading in kPa
AU	Auger Cuttings
BK	Bulk Sample
PT	Push Tube
SS	Split Spoon
U100	Undisturbed 100mm
U50	Undisturbed 50mm

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CLIENT	Wentworth Shire Council	I		NORTHII	NG 622284	4	ELEVATION (mAHD) 43.4
PROJECT	Buronga Landfill Expans	ion Detailed Design		EASTING	609920		TOTAL DEPTH (mBGL) 2.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ţ			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	∇			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

to	n	an	7	9 N	97 Pine A Mildura V Γ +61 3 5			OLE NUMBER				BH02		
CLIEN			orth Shire			021 1700	NORTHI	NG 62228	74		ELEVATION (mAHD) 43.3			
PROJE					on Detail	ed Design	EASTING	,						
LOCAT		_	orth, NSV		OII Detail	eu Design	LASTIN	J 00990	•		TOTAL DEF ITT (IIIDGE) 2.00			
START		17/03/2		V	COM	PLETED 17/03/2023	SYMBOL	SWL (mBGL)		DATE	NOTES			
			Berri Drafting & Drilling				₹ VINIBOL		DATE		er not encountered			
	RACTOR			Drilling		SED BY IPN					_			
EQUIP		Rockma	aster			KED BY MA	<u>Ā</u> <u>Ā</u>				-			
METH	טט	PT	I	T	1	IIT NO.	Ā							
DEPTH (mAHD)	DEPTH (mGBL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND	D OBSERVATIONS			SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS		
			-	D	D	FILL. Calcareous Clayey Sand, f	ne to coarse g	rained, pale						
		XXX				brown, low plasticity fines, with fill sub-rounded to sub-angular	ne to medium (grained gravels,						
43.1	0.2 -	XXXX				Sub rounded to out ungular				BH2_0.1-0.3				
42.9	0.4 -													
42.7	0.6 -													
42.5	0.8 -		SC	D	1	Calcaroous Clavey CAND Fine 4	0.000000 ====!-	ad nala brave	-					
			30	"	L MD	Calcareous Clayey SAND. Fine t and white, low plasticity fines, wit	eu, paie brown im grained							
42.3	1.0-					gravels, sub-rounded to sub-ang	ular							
-														
42.1	1.2 -													
72.1	1.2													
44.0	4.4													
41.9	1.4 -													
41.7	1.6 -					Colour darkens and gravel conte	nt decreases							
41.5	1.8 -													
41.3	2.0	Y				End of hole at 2.0 m, target deptl	n reached							
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CLIENT	Wentworth Shire Council			NORTHI	NG 622287	'4	ELEVATION (mAHD) 43.3
PROJECT	Buronga Landfill Expansi	on Detailed Design		EASTING	609934	ŀ	TOTAL DEPTH (mBGL) 2.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ţ			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	$\overline{\Delta}$			
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CLIENT	Wentworth Shire Council			NORTHI	NG 622286	52	ELEVATION (mAHD) 43.5
PROJECT	Buronga Landfill Expansi	ion Detailed Design		EASTING	609947	•	TOTAL DEPTH (mBGL) 2.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ţ			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	$\bar{\Delta}$			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

to	nl	ar	7	9 N	7 Pine A Mildura V	IC 3500	BOREHO	OLE NUMBER				BH04		
CLIEN [*]	Γ CT	Wentwo	orth Shire a Landfill	Council Expansion		021 4486 ed Design	NORTHI				ELEVATION TOTAL DEPT	(mAHD) 46 TH (mBGL) 3.00		
LOCAT			orth, NSV	/										
START		17/03/2				PLETED 17/03/2023	SYMBOL	SWL (mBGL)		DATE		NOTES Groundwater not encountered		
	RACTOR		afting & [Orilling		SED BY IPN	<u>T</u>							
EQUIP		Rockma	aster			KED BY MA	<u>Ā</u>							
METHO	DD OC	PT				IIT NO.	Ā	<u>Ā</u>				<u> </u>		
DEPTH (mAHD)	DEPTH (mGBL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND O	BSERVATIONS BSERVATIONS			SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS		
			-	D	MD	FILL. Calcareous sandy gravel, fine sub-rounded to angular, asphalt in	e to medium	grained,						
45.8	0.2 -		SP	D	MD	fines Calcareous SAND. Fine to coarse plasticity fines, trace fine grained g	grained, pale							
45.6	0.4		SC	D	MD	Calcareous Clayey SAND. Fine to fine to coarse grained gravels, sub becoming pale brown with depth	coarse grain -rounded to	ed, white, with sub-angular,						
45.4	0.6 -					gp								
45.2	0.8													
45.0	1.0													
44.8	1.2 -													
44.6	1.4													
44.4	1.6													
44.2	1.8 -													
44.0	2.0-													
43.8	2.2		SC	D	MD	Clayey SAND. Fine to coarse grain plasticity fines, trace fine grained g	ned, orange-l	prown, low						
43.6	2.4 -													
43.4	2.6													
43.2	2.8		01		F1.	Condu OLAV Love L. C. Y.	a hacery C							
43.0	3.0		CL	w <pl< td=""><td>Fb</td><td>Sandy CLAY. Low plasticity, orang grained, trace fine grained gravels End of hole at 3.0 m, target depth r</td><td></td><td>e to coarse</td><td></td><td></td><td></td><td></td></pl<>	Fb	Sandy CLAY. Low plasticity, orang grained, trace fine grained gravels End of hole at 3.0 m, target depth r		e to coarse						
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tonk	and	97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486		BOREHO	DLE NUMBER		BH04
CLIENT	Wentworth Shire Counci	I		NORTHI	NG 622284	0	ELEVATION (mAHD) 46
PROJECT	Buronga Landfill Expans	ion Detailed Design		EASTING	610046		TOTAL DEPTH (mBGL) 3.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	¥			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	∇			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

to	nl	(ln	7	9 9	97 Pine A Mildura V		BONER	OLE NUMBER				BH05
CLIEN			orth Shire		1 10133	021 4400	NORTHI	NG 622285	 5Λ		EI EVATION	(mAHD) 47.5
PROJE					an Datail	ad Danian	EASTING	` ,				
		_			on Detail	ed Design	EASTING	3 610106)	TOTAL DEPTH (mBGL) 3.00		
LOCAT			orth, NSV	V	2011	AT/00/0000	OVALDOL	SWL (mBGL)		DATE	NOTES	
START		17/03/2				PLETED 17/03/2023	SYMBOL		DATE	NOTES Groundwat	er not encountered	
	RACTOR		afting & I	Drilling		GED BY IPN	<u> </u>					
EQUIP		Rockma	aster		CHEC	CKED BY MA	Ā					
METH	OD	PT			PERM	IIT NO.	$ar{oldsymbol{\Lambda}}$			•		
DEPTH (mAHD)	DEPTH (mGBL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND	OBSERVATIONS		SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS
		{}}}}	SC	_ D	L	Calcareous Clayey SAND. Fine to	o coarse grain	ed poorly				
					MD	graded, pale brown, low plasticity	fines, with fine	e to medium				
47.3	0.2 -					grained gravels, sub-angular to s mm depth	ub-rounded, o	rganics to 200				
47.1	0.4 -											
	U. 4											
40.0	• •											
46.9	0.6 -											
			SC	D	L	Calcareous Clayey SAND. Fine to	coarse grain	ed, poorly				
46.7	0.8 -				MD	graded, white, low plasticity fines gravels, becoming trace gravels to	, with fine to co from 0.9 mBGI	parse grained				
						gravolo, boooning taob gravolo i	10111 0.0 1112 0.	-				
46.5	1.0-											
46.3	1.2 -											
46.1	1.4 -											
40.1	1.4											
45.0												
45.9	1.6 -											
45.7	1.8 -											
45.5	2.0-											
45.3	2.2 -											
45.1	2.4 -					0						
	2.7		SC	D	MD	Clayey SAND. Fine to coarse gra plasticity fines, trace fine grained	ined, orange-l gravels	prown, low				
44.9	2.6					, and a second of the second o	J = . 3.0					
77. 3	2.6 -											
44.7	2.8 -											
44.5	3.0-	1111				End of hole at 3.0 m, target depth	reached		1			
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tonk	an T	97 Pine Avenue Mildura VIC 3500 Γ +61 3 5021 4486		BOREHO	DLE NUMBER		BH05
CLIENT	Wentworth Shire Council			NORTHII	NG 6222854	ļ	ELEVATION (mAHD) 47.5
PROJECT	Buronga Landfill Expansi	on Detailed Design		EASTING	610106		TOTAL DEPTH (mBGL) 3.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ā			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	Ā			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

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CLIENT			orth Shire		TO 1 3 3	UZ 1 4400	NORTHII	NG 622285	52		ELEVATION (mAHD) 48.5		
PROJE					on Dotaile	ed Design	EASTING					H (mBGL) 3.00	
LOCAT		_	orth, NSW		on Detail	eu Design	EASTING	010217			TOTAL DEFT	H (HIBGL) 5.00	
START		17/03/2		·	COME	PLETED 17/03/2023	SYMBOL	SWL (mBGL)		DATE	NOTES		
	ACTOR		afting & [Orilling		ED BY IPN	▼	OTTE (IIIDOE)		DAIL		er not encountered	
EQUIP		Rockma		Jilling		KED BY MA	$\overline{\Sigma}$						
METHO		PT	10101			IIT NO.	<u> </u>				+		
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DEPTH (mAHD)	DEPTH (mGBL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND			SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS	
			SC	D	L MD	Calcareous Clayey SAND. Fine to graded, pale brown, low plasticity	coarse grain	ed, poorly					
40.0					טועו	grained gravels, sub-angular to si	ub-rounded, o	rganics to 100					
48.3	0.2 -					mm depth							
40.4	0.4												
48.1	0.4 -												
47.0													
47.9	0.6 -												
47.7			SC	D	MD	Calcareous Clayey SAND. Fine to fine to coarse grained gravels, su	coarse grain	ed, white, with					
47.7	0.8 –					lille to coalse grained gravels, su	D-TOUTIQEG (O S	sub-angulai					
47.5	4.0												
47.5	1.0												
47.3	1.2 -												
47.1	1.4 -					Becomes pale brown							
46.9	1.6 -												
40.7	4.0												
46.7	1.8 -												
40.5													
46.5	2.0-		SC	D	MD	Clayey SAND. Fine to coarse gra plasticity fines, trace fine grained	ined, orange-l	prown, low					
40.0						plasticity lines, trace line grained	graveis						
46.3	2.2 -												
10.4	0.4												
46.1	2.4 -												
45.0	2.0												
45.9	2.6 -												
45.7	20												
1 0.1	2.8 -												
45.5	3.0-												
TU.U	3.0					End of hole at 3.0 m, target depth	reached						
	-												
	Ī												

PROJECT NO.

31/5/23
L.GDT
JCTURA
STR
LATE
TEMP
TANDARD
IN STAI
TONK
STAGE2.GPJ
202597STA(
PG2 2
71010
0.2M
H/AHD
- DEPTI
EO 21
TONKIN GEO 21 - DEPTH/AHD 0.2M PHOTO PG2 202597STAGE2. GPJ TONKIN STANDARD TEMPLATE_STRUCTURAL.GDT 31

tonk	an	97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486		BOREHO	DLE NUMBER		BH06
CLIENT	Wentworth Shire Council	I		NORTHII	NG 622285	2	ELEVATION (mAHD) 48.5
PROJECT	Buronga Landfill Expans	ion Detailed Design		EASTING	610217		TOTAL DEPTH (mBGL) 3.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ā			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	∇			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

CLENT Wentworth Shire Council NORTHING 5222870 ELEVATION (mAHD) 45.7	to	nl	(Ir		9 <u>M</u>	7 Pine A	IC 3500	BOREHO	OLE NUMBER				BH07
STARTED 17/03/2023 COMPLETED 17/03/2023 SYMBOL SWL (mBGL) DATE CONTRACTOR Beril Drafting & Drilling LOGGED BY IPN CHECKED BY MA CY INTERPRETATION PT PERMIT NO. EGG FER STAND FOR CHECKED BY MA CY INTERPRETATION CHECKED BY	CLIENT	-	Wentworth Shire Council										
CONTRACTOR Berti Drafting & Drilling EQUIPMENT Rockmaster CHECKED BY MA TO PERMIT NO. PT PERMIT NO. DESCRIPTION AND OBSERVATIONS DESCRIPTION AND OBSERVAT	LOCAT	ION	Wentwo	orth, NSV	V								
CONTRACTOR Bern Detailing & Children & Checked by MA COMMENTSOBSENANC COMMENTSOBSENANC COMMENTSOBSENANC COMMENTSOBSENANC COMMENTSOBSENANC CHECKED BY MA COMMENTSOBSENANC COMMEN	START	ED	17/03/2	023		COMP	PLETED 17/03/2023	SYMBOL	SWL (mBGL)		DATE		or not ancountared
METHOD PT PERMIT NO. Egg 15	CONTR	ACTOR	Berri Dr	afting &	Drilling	LOGG	ED BY IPN					Groundwat	er not encountered
E G	EQUIP	MENT	Rockma	ster		CHEC	KED BY MA						
SC D MD Calcarous Clayey SAND. Fire to coarse grained, poorty granted gale brown with me to medium grained gravels, sub-angular to sub-rounded, organics tincephout a mixture of cobbles and calcarous day sand per FPO1, but a coarse grained sands, trace fine grained gravels. Col. w <pl and="" black="" brown="" calcareous="" cl.="" clay,="" coarse="" col.="" fb="" fine="" flecking,="" grained="" gravels.="" grey="" lackarous="" low="" medium="" minor="" mirror="" motiting,="" pale="" plasticity,="" pockets="" prown="" sands,="" sands<="" sandy="" td="" to="" trace="" w<pl="" white="" white,="" with=""><td>METHO</td><td>D</td><td>PT</td><td></td><td></td><td>PERM</td><td>IIT NO.</td><td>Ā</td><td></td><td></td><td></td><td></td><td></td></pl>	METHO	D	PT			PERM	IIT NO.	Ā					
SC D MD Calcarous Clayey SAND. Fire to coarse grained, poorty granted gale brown with me to medium grained gravels, sub-angular to sub-rounded, organics tincephout a mixture of cobbles and calcarous day sand per FPO1, but a coarse grained sands, trace fine grained gravels. Col. w <pl and="" black="" brown="" calcareous="" cl.="" clay,="" coarse="" col.="" fb="" fine="" flecking,="" grained="" gravels.="" grey="" lackarous="" low="" medium="" minor="" mirror="" motiting,="" pale="" plasticity,="" pockets="" prown="" sands,="" sands<="" sandy="" td="" to="" trace="" w<pl="" white="" white,="" with=""><td>DEPTH (mAHD)</td><td>DEPTH (mGBL)</td><td>GRAPHIC LOG</td><td>USCS CLASS.</td><td>MOISTURE</td><td>DENSITY/ CONSISTENCY</td><td>DESCRIPTION AND OR</td><td>SSERVATIONS</td><td></td><td>SAMPLE</td><td>SAMPLE TYPE/ID</td><td>IN-SITU TESTING</td><td>COMMENTS/OBSERVATIONS</td></pl>	DEPTH (mAHD)	DEPTH (mGBL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND OR	SSERVATIONS		SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS
45.5 0.2 45.5 0.4 45.6 0.6 45.7 0.6 45.8 0.4 45.9 0.8 44.7 1.0 44.5 1.2 CI w-PL Fb CLAY. Medium plasticity, grey with brown mottling, with fine to coarse grained sands, minor calcareous white pockets 44.7 1.0 44.5 1.2 CL w-PL Fb CLAY. Medium plasticity, grey with brown mottling, with fine to coarse grained sands, minor calcareous white pockets 44.7 1.8 44.7 1.8 45.7 2.0 CL w-PL Fb Sandy CLAY. Low to medium plasticity, pale brown with minor grey mottling, fine to coarse grained sands 45.7 2.0 46.5 2.2 CL w-PL Fb Sandy CLAY. Low to medium plasticity, pale brown with minor grey mottling, fine to coarse grained sands		_		SC	D		Calcareous Clayey SAND. Fine to	coarse grain	ed, poorly				
borehole as per description. 1.0 44.7 1.0 44.5 1.2 CI w <pl 1.6="" 2.0="" 43.7="" 44.1="" brown="" calcareous="" cl="" clay,="" coarse="" fb="" fine="" grained="" grey="" low="" medium="" minor="" mottling,="" pale="" plasticity,="" pockets="" sands,="" sands<="" sandy="" td="" to="" w<pl="" white="" with=""><td></td><td></td><td></td><td>CI</td><td>w<pl< td=""><td>Fb</td><td>grained gravels, sub-angular to sub throughout Calcareous Sandy CLAY. Medium black flecking, fine to coarse graine</td><td>p-rounded, o</td><td>rganics own and white,</td><td></td><td></td><td></td><td></td></pl<></td></pl>				CI	w <pl< td=""><td>Fb</td><td>grained gravels, sub-angular to sub throughout Calcareous Sandy CLAY. Medium black flecking, fine to coarse graine</td><td>p-rounded, o</td><td>rganics own and white,</td><td></td><td></td><td></td><td></td></pl<>	Fb	grained gravels, sub-angular to sub throughout Calcareous Sandy CLAY. Medium black flecking, fine to coarse graine	p-rounded, o	rganics own and white,				
44.7 1.0 44.5 1.2 CI w <pl 1.4="" 1.6="" 1.8="" 2.0="" 2.6="" 2.8<="" 43.1="" 43.2="" 43.9="" 44.1="" 44.3="" brown="" calcareous="" cl="" clay.="" coarse="" fb="" fine="" grained="" grey="" low="" medium="" minor="" mottling,="" pale="" plasticity,="" pockets="" sands="" sands,="" sandy="" td="" to="" w<pl="" white="" with=""><td>40.3</td><td></td><td></td><td></td><td></td><td></td><td>gravels.</td><td></td><td></td><td></td><td></td><td></td><td>borehole as per</td></pl>	40.3						gravels.						borehole as per
44.7 1.0 44.5 1.2 CI w <pl 1.4="" 1.6="" 2.0="" 2.6="" 2.8<="" 43.1="" 43.7="" 44.1="" 44.2="" 44.3="" brown="" calcareous="" cl="" clay.="" coarse="" fb="" fine="" grained="" grey="" low="" medium="" minor="" mottling,="" pale="" plasticity,="" pockets="" sands="" sands,="" sandy="" td="" to="" w<pl="" white="" with=""><td>45.1</td><td>0.6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pl>	45.1	0.6											
12- CI w <pl -="" 1.4="" 1.6="" 14.3="" 2.0="" 2.2="" 43.7="" brown="" calcareous="" cl="" clay.="" coarse="" fb="" fine="" grained="" grey="" low="" medium="" minor="" mottling,="" pale="" plasticity,="" pockets="" sands="" sands,="" sands<="" sandy="" td="" to="" w<pl="" white="" with=""><td>44.9</td><td>0.8 -</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pl>	44.9	0.8 -											
coarse grained sands, minor calcareous white pockets 1.4 1.6 43.7 2.0 CL w <pl 2.2="" 2.6="" 2.8<="" 42.9="" 43.1="" brown="" clay.="" coarse="" fb="" fine="" grained="" grey="" low="" medium="" minor="" mottling,="" pale="" plasticity,="" sands="" sandy="" td="" to="" with=""><td>44.7</td><td>1.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pl>	44.7	1.0											
44.1 1.6 43.9 1.8 43.7 2.0 CL w <pl 2.6="" 2.8<="" 42.9="" 43.1="" brown="" clay.="" coarse="" fb="" fine="" grained="" grey="" low="" medium="" minor="" mottling,="" pale="" plasticity,="" sands="" sandy="" td="" to="" with=""><td>44.5</td><td>1.2 -</td><td></td><td>CI</td><td>w<pl< td=""><td>Fb</td><td>CLAY. Medium plasticity, grey with coarse grained sands, minor calcar</td><td>brown mottli eous white p</td><td>ing, with fine to</td><td>_</td><td></td><td></td><td></td></pl<></td></pl>	44.5	1.2 -		CI	w <pl< td=""><td>Fb</td><td>CLAY. Medium plasticity, grey with coarse grained sands, minor calcar</td><td>brown mottli eous white p</td><td>ing, with fine to</td><td>_</td><td></td><td></td><td></td></pl<>	Fb	CLAY. Medium plasticity, grey with coarse grained sands, minor calcar	brown mottli eous white p	ing, with fine to	_			
43.7 2.0— 43.7 2.0— CL w <pl 2.6—="" 2.8—="" 2.8—<="" 43.1="" 43.7="" 44.9="" 45.7="" 46.7="" brown="" clay.="" coarse="" fb="" fine="" grained="" grey="" low="" medium="" minor="" mottling,="" pale="" plasticity,="" sands="" sandy="" td="" to="" with=""><td>44.3</td><td>1.4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pl>	44.3	1.4											
2.0 CL w <pl 2.2="" brown="" clay.="" coarse="" fb="" fine="" grained="" grey="" low="" medium="" minor="" mottling,="" pale="" plasticity,="" sands="" sands<="" sandy="" td="" to="" with=""><td>44.1</td><td>1.6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pl>	44.1	1.6											
43.5 2.2 CL w <pl 2.6="" 2.8<="" 42.9="" 43.1="" brown="" clay.="" coarse="" fb="" fine="" grained="" grey="" low="" medium="" minor="" mottling,="" pale="" plasticity,="" sands="" sandy="" td="" to="" with=""><td>43.9</td><td>1.8 -</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pl>	43.9	1.8 -											
43.5 2.2 grey mottling, fine to coarse grained sands 43.1 2.6 42.9 2.8	43.7	2.0											
43.1 2.6 42.9 2.8	43.5	2.2		CL	w <pl< td=""><td>Fb</td><td>Sandy CLAY. Low to medium plast grey mottling, fine to coarse grained</td><td>icity, pale bro d sands</td><td>own with minor</td><td></td><td></td><td></td><td></td></pl<>	Fb	Sandy CLAY. Low to medium plast grey mottling, fine to coarse grained	icity, pale bro d sands	own with minor				
42.9 2.8	43.3	2.4											
407	43.1	2.6											
42.7 3.0 End of hole at 3.0 m, target depth reached	42.9	2.8											
	42.7	3.0					End of hole at 3.0 m, target depth r	eached					
		-											
		-											
		-											

PROJECT NO. 202597

31/5/23
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TRUCTURAL.GDT 31
LATE_ST
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٩Nb
TONKIN ST
GE2.GPJ
D 0.2M PHOTO PG2 202597STAGE2.GF
TO PG2
2M PHOT
1/AHD 0.2
- DEPT
TONKIN GEO 21
\vdash

tonk	ant !	97 Pine Avenue Mildura VIC 3500 Γ +61 3 5021 4486		BOREHO	DLE NUMBER		BH07
CLIENT	Wentworth Shire Council			NORTHII	NG 622287	0	ELEVATION (mAHD) 45.7
PROJECT	Buronga Landfill Expansi	on Detailed Design		EASTING	610312		TOTAL DEPTH (mBGL) 3.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ţ			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	$\overline{\Delta}$			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

to	nŀ	(ln	7	9 9	7 Pine A Mildura V		BOREHO	OLE NUMBER				BH08
CLIEN			orth Shire		+0133	021 4486	NORTHING 6222908				ELEVATION	(mAHD) 48.7
PROJE					on Dotoil	ad Dasign	EASTING					H (mBGL) 3.00
LOCAT		_	a Landiii orth, NSV		on Detail	ed Design	EASTING	010200)		IOIALDEPI	n (IIIBGL) 3.00
START		17/03/2		V	COM	PLETED 17/03/2023	SYMBOL	SWL (mBGL)		DATE	NOTES	
	RACTOR		afting & [Drilling			▼ TIMBOL	SVVE (IIIDOE)		DAIL		er not encountered
EQUIP		Rockma		Dilling			$\frac{1}{2}$					
			ister			CKED BY MA	<u> </u>					
METHO	טע	PT		1		NIT NO.	<u>Ā</u>					
DEPTH (mAHD)	DEPTH (mGBL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND O	BSERVATIONS		SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS
			-	D	VD	FILL. Granular pavement material	recovered as	sandy gravel,				
			SC	D	D	white, fine to coarse grained grave fine to coarse grained sands	eis, sub-angul	ar to angular,				
48.5	0.2 -					Clayey SAND. Fine to coarse grain	ned, red-brow	n, low plasticity				
						fines, lenses grade to with clay						
48.3	0.4 -											
48.1	0.6 -				L							
					MD							
47.9	0.8 -											
47.7	1.0											
			00		MD	Olava OAND Fire to access to						
47.5	1.2 -		SC	D	MD	Clayey SAND. Fine to coarse grain plasticity fines, trace fine to coarse	nea, orange-r grained grav	orown, iow vels				
47.3	1.4 -											
47.5	1.4											
17.4	4.0											
47.1	1.6 -											
46.9	1.8 -											
46.7	2.0-											
46.5	2.2 -											
46.3	2.4 -											
46.1	2.6 -		SC	D	D	Clayey SAND. Fine to coarse grain	ned orange-h	orown low				
			00			plasticity fines	ica, orange-k	Jiowii, iow				
45.9	2.8 -											
45.7	3.0-					F 1 (1 1 100 1 11 11						
						End of hole at 3.0 m, target depth i	reached					
	_											
	-											
	-											

PROJECT NO. 202597

31/5/23
L.GDT
JCTURA
STR
LATE
TEMP
TANDARD
IN STAI
TONK
STAGE2.GPJ
202597STA(
PG2 2
71010
0.2M
H/AHD
- DEPTI
EO 21
TONKIN GEO 21 - DEPTH/AHD 0.2M PHOTO PG2 202597STAGE2. GPJ TONKIN STANDARD TEMPLATE_STRUCTURAL.GDT 31

tonk	an T	07 Pine Avenue Mildura VIC 3500 Γ +61 3 5021 4486		BOREHO	DLE NUMBER		BH08
CLIENT	Wentworth Shire Council			NORTHII	NG 622290	3	ELEVATION (mAHD) 48.7
PROJECT	Buronga Landfill Expansi	on Detailed Design		EASTING	610266		TOTAL DEPTH (mBGL) 3.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ā			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	$\overline{\Delta}$			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

to	nk	ar	7	9 N	7 Pine A Mildura V		BONEIL	DLE NUMBER				BH09	
CLIEN"			orth Shire		70133	UZ 1 4400	NORTHII	NG 622309	nn	ELEVATION (mAHD) 46.25			
PROJE					D-4-:I	ad Danima	EASTING						
		_			on Detail	ed Design	EASTING	0 10293)		IOIAL DEPI	ГН (mBGL) 3.00	
LOCAT			orth, NSV	/		ALETER 47/00/0000	OVMPOL	014/1 (DOL)		DATE	NOTES		
START		17/03/2		S ::::		PLETED 17/03/2023	SYMBOL	SWL (mBGL)		DATE	NOTES Groundwat	ter not encountered	
	RACTOR		rafting & I	Urilling		ED BY IPN	Ā				_		
EQUIP		Rockma	aster			KED BY MA	Σ				4		
METHO	DD D	PT				IIT NO.	Ā					T.	
DEPTH (mAHD)	DEPTH (mGBL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND (OBSERVATIONS		SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS	
		/////	SC	D	MD	Clayey SAND. Fine to coarse grain	ined, red-brow	n, low plasticity					
46.1	0.2 -				D	fines, grades to with clay in places	S.	,					
45.9	0.4												
45.7	0.6		SC	D	MD	Clayey SAND. Fine to coarse grain plasticity fines, trace fine grained Sandy CLAY	ined, orange-b gravels, lense	orown, low s grade to					
45.5	0.8												
45.3	1.0												
45.1	1.2 -												
44.9	1.4		SC	D	MD	Calcareous Clayey SAND. Fine to graded, pale brown to white, low p	plasticity fines.	with fine to					
44.7	1.6					medium grained gravels, sub-ang	jular to sub-ro	unded					
44.5	1.8												
44.3	2.0		SP	D	MD	SAND. Fine to coarse grained, po orange and red-brown, with low p	lasticity fines	grading to					
44.1	2.2 -					clayey in places, trace fine to med	alum grained g	raveis					
43.9	2.4												
43.7	2.6												
43.5	2.8												
43.3	3.0					End of hole at 3.0 m, target depth	reached						
	-												
	-												
	-												
	-												

PROJECT NO.

TONKIN GEO 21 - DEPTH/AHD 0.2M PHOTO PG2 202597STAGE2.GPJ TONKIN STANDARD TEMPLATE_STRUCTURAL.GDT		31	
1 - DEPTH/AHD 0.2M PHOTO P		IJ	
1 - DEPTH/AHD 0.2M PHOTO P	9	_	
1 - DEPTH/AHD 0.2M PHOTO P	9		
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1 - DEPTH/AHD 0.2M PHOTO P	i	AGEZ	
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TONKIN GEO 2	,	ر ا	
TONKIN	0	2	
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tonk	an T	97 Pine Avenue Mildura VIC 3500 Γ +61 3 5021 4486		BOREHO	DLE NUMBER		BH09
CLIENT	Wentworth Shire Council			NORTHII	NG 622309	9	ELEVATION (mAHD) 46.25
PROJECT	Buronga Landfill Expansi	on Detailed Design		EASTING	610295		TOTAL DEPTH (mBGL) 3.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ā			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	Ā			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

to	n	ar	7	9 M T	7 Pine A Mildura V 7 +61 3 5		BH10						
CLIEN				Council			NORTHING 6223689 ELEVATION (mAHD) 39.3						
PROJE					on Detail	ed Design	EASTING 610560 TOTAL DEPTH (mBGL) 4.00						
LOCAT		_	orth, NSV		on Dotain	od Dosign	End line Closed Total SET III (IIISSE) 4.00						
START		17/03/2		•	COME	PLETED 17/03/2023	SYMBOL	SWL (mBGL)		DATE	NOTES		
	RACTOR		afting &	Drilling		GED BY IPN	<u></u>	0112 (IIID02)	'	Groundwater not encountered			
EQUIP		Rockma	•	Diming		CKED BY MA	\(\bar{\triangle}{\triangle}\)				-		
METH		PT	20101			MIT NO.	<u>Ā</u>				-		
						11110.							
DEPTH (mAHD)	DEPTH (mGBL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND C	BSERVATIONS		SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS	
		7/1/V	-	D	MD	TOPSOIL. Silty Sand, fine to coars fines, trace fine to medium grained	se grained, br	own, non plastic					
20.4		$\overline{\overline{\lambda}} \cdot \overline{\overline{\gamma}} \cdot \overline{\lambda} \cdot \overline{\overline{\gamma}}$				inles, trace line to medium grained	graveis						
39.1	0.2	· <u>\\ i\</u> · <u>\\ i\ i\</u> ·											
38.9	0.4		SC	D	MD	Calcareous Clayey SAND. Fine to low plasticity fines, with fine to me	coarse grain	ed, pale brown,					
30.3	0.4					sub-rounded to sub-angular.	aidiri gidiriod	gravoio,					
38.7	0.6												
50.1	0.0												
38.5	0.8												
00.0	0.0		SC	D	MD	Calcareous Clayey SAND. Fine to plasticity fines, trace fine to mediu	coarse grain marained ara	ed, white, low avels.					
38.3	1.0-					sub-rounded	3 3 -	,					
00.0													
38.1	1.2 -												
37.9	1.4 -												
			0.0		MD	CAND Fire to construct on		20-112-2	.				
37.7	1.6		SP	D	MD	SAND. Fine to coarse grained, ora fines, trace gravels, possibly calca	inge-brown, v reous	vitn low plasticity					
37.5	1.8												
37.3	2.0	77777	SC	D	MD	Becomes Clayey SAND. Fine to o	parse grained	l. orange-brown.					
					2	low plasticity fines, trace gravels, p	ossibly calca	reous					
37.1	2.2												
36.9	2.4		CL	w <pl< td=""><td>Fb</td><td>Calcareous Sandy CLAY. Low to</td><td>nedium plast</td><td>city,</td><td></td><td></td><td></td><td></td></pl<>	Fb	Calcareous Sandy CLAY. Low to	nedium plast	city,					
						orange-brown and white, minor blagrained, trace fine to medium grain	ack flecking, f ned gravels	ine to coarse					
36.7	2.6					gramos, a socimo to mostam gram	.ou g.u.o.o						
36.5	2.8												
36.3	3.0												
36.1	3.2		CL	w <pl< td=""><td>Fb</td><td>Calcareous CLAY. Low to medium</td><td>plasticity, gr</td><td>ey, white and</td><td></td><td></td><td></td><td></td></pl<>	Fb	Calcareous CLAY. Low to medium	plasticity, gr	ey, white and					
25.0						pale brown, with fine to medium gralcareous	ained sands,	possibly					
35.9	3.4												
05.7													
35.7	3.6												
25.5	2.0					Becoming red-brown with minor g	еу						
35.5	3.8												
25.2	4.0												
35.3	4.0					End of hole at 4.0 m, target depth	reached						

PROJECT NO.

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tonk	an T	97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486		BOREHO	DLE NUMBER		BH10
CLIENT	Wentworth Shire Council			NORTHI	NG 622368	9	ELEVATION (mAHD) 39.3
PROJECT	Buronga Landfill Expans	ion Detailed Design		EASTING	3 610560		TOTAL DEPTH (mBGL) 4.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ā			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	$\overline{\Delta}$			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

to	n	เท	7	9 M T	7 Pine A lildura V +61 3 5		BOREHO	DLE NUMBER		BH11				
CLIEN		Wentwo					NORTHIN	NG 622350	6		ELEVATION (mAHD) 38.75			
PROJE LOCAT	СТ	Buronga Wentwo			on Detaile	ed Design	EASTING					TH (mBGL) 4.00		
START	ED	17/03/20	2023 COMPLETED 17/03/2023				SYMBOL	SWL (mBGL)		DATE	NOTES Groundwater not encountered			
CONTR	RACTOR	Berri Dra	afting & I	Drilling	LOGG	ED BY IPN	Ţ				Groundwat	er not encountered		
EQUIP			Rockmaster CHECKED BY MA				Δ				_			
METHO	DD	PT				IIT NO.	Ā					<u> </u>		
DEPTH (mAHD)	DEPTH (mGBL)	GRAPHIC LOG LOG USCS CLASS. CLASS. CLASS.				DESCRIPTION AND OF	SSERVATIONS		SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS		
			SP	D	MD	SAND. Fine to coarse grained, poo brown, grey and black, with low pla	rly graded, p	ale orange						
38.6	0.2 -					medium grained calcareous gravels	S							
			CL	w <pl< td=""><td>Fb</td><td>Sandy CLAY. Low plasticity, pale o</td><td>range brown</td><td>. fine to coarse</td><td></td><td></td><td></td><td></td></pl<>	Fb	Sandy CLAY. Low plasticity, pale o	range brown	. fine to coarse						
38.4	0.4					grained sands, trace fine to mediun gravels, sub-rounded to sub-angula	n grained cal	careous						
38.2	0.6					,								
JU.2	0.0													
38.0	0.8													
37.8	1.0													
37.6	1.2 -		SC	D	MD	Clayey SAND. Fine to coarse grain orange-brown, low plasticity fines, p	ed, poorly gr oossibly calc	aded, areous						
37.4	1.4													
37.2	1.6													
31.2	1.0													
37.0	1.8													
			CL	w <pl< td=""><td>Fb</td><td>Sandy CLAY. Low to medium plast</td><td>icity, grey wit</td><td>h minor orange</td><td></td><td></td><td></td><td></td></pl<>	Fb	Sandy CLAY. Low to medium plast	icity, grey wit	h minor orange						
36.8	2.0					and white mottling, trace fine to me calcareous in pockets	dium grained	l gravels,						
36.6	2.2													
36.4	2.4													
26.2	26													
36.2	2.6													
36.0	2.8 -													
35.8	3.0													
35.6	3.2													
50.0	J. <u>Z</u>		CI	w <pl< td=""><td>Fb</td><td>Sandy CLAY. Medium to high plast red-brown mottling, fine to coarse g</td><td>icity, grey wi rained sand</td><td>th white and s, calcareous in</td><td></td><td></td><td></td><td></td></pl<>	Fb	Sandy CLAY. Medium to high plast red-brown mottling, fine to coarse g	icity, grey wi rained sand	th white and s, calcareous in						
35.4	3.4					pockets								
o			GP	D	D	Sandy GRAVEL. Fine grained, poo	rly graded, s	ubangular to						
35.1	3.6		CI	w <pl< td=""><td>Fb</td><td>subrounded, grey, white and minor grained sands</td><td></td><td>Г</td><td></td><td></td><td></td><td></td></pl<>	Fb	subrounded, grey, white and minor grained sands		Г						
34.9	3.8 -		•			Sandy CLAY. Medium to high plast grained sands	ıcity, grey, fir	ne to coarse						
34.7	4.0					End of Hole at 4.0 m, target depth r	eached							

PROJECT NO. 202597

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tonk	an T	97 Pine Avenue Mildura VIC 3500 Γ +61 3 5021 4486		BOREHO	DLE NUMBER		BH11
CLIENT	Wentworth Shire Council			NORTHI	NG 622350	16	ELEVATION (mAHD) 38.75
PROJECT	Buronga Landfill Expansi	ion Detailed Design		EASTING	611220)	TOTAL DEPTH (mBGL) 4.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ţ			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	$\overline{\Delta}$			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

to	n	(In		9 M T	7 Pine A lildura V +61 3 5		BOREHO	BH12					
CLIEN				Council			NORTHII	NG 622278	ELEVATION	ATION (mAHD) 41.6			
PROJE					on Detaile	ed Design	EASTING 611156 TOTAL DEPTH (mBGL) 4.00						
LOCAT		Wentwo			J., 20ta	54 200.g.:		(
START		17/03/20		•	COME	PLETED 17/03/2023	SYMBOL	SWL (mBGL)		DATE	NOTES		
CONTR	RACTOR	Berri Dr		Drillina		ED BY IPN	T	- (- /			Groundwat	er not encountered	
EQUIP		Rockma	•			KED BY MA	$\overline{\Delta}$						
METHO		PT				IIT NO.	Ā						
		0		ш		-					1.0		
DEPTH (mAHD)	DEPTH (mGBL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND (SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS	
			SC	D	MD	Calcareous Clayey SAND. Fine to graded, pale brown and white, low	coarse grain	ed, poorly					
11 1	0.0					grained gravels.	v plasticity iii ie	ss, lille to coarse					
41.4	0.2 -												
41.2													
1 1.Z	0.4 -												
41.0	0.6 -												
+1.0	0.0												
40.8	0.8		CL	w <pl< td=""><td>Fb</td><td>Sandy CLAY. Low plasticity, pale</td><td>orange brown</td><td>, fine to coarse</td><td></td><td></td><td></td><td></td></pl<>	Fb	Sandy CLAY. Low plasticity, pale	orange brown	, fine to coarse					
	v.0					grained sands, trace fine to mediu gravels, sub-rounded to sub-angu	ım grained ca	lcareous					
40.6	1.0-					gravers, sub-rounded to sub-angl	ııdı						
10.0	1.0												
40.4	1.2 -												
70.7	1.2												
40.2	1.4 -												
			CI	w <pl< td=""><td>Fb</td><td>CLAY. Medium plasticity, orange- mottles, with fine to medium grain</td><td>brown with pa ed sands. trac</td><td>le brown e fine grained</td><td></td><td></td><td></td><td></td></pl<>	Fb	CLAY. Medium plasticity, orange- mottles, with fine to medium grain	brown with pa ed sands. trac	le brown e fine grained					
40.0	1.6 -					gravels, possibly calcareous	•	· ·					
39.8	1.8 -												
			SC	D	MD	Clayey SAND. Fine to coarse grain	and nooth a	en de d					
39.6	2.0		30		UIU	orange-brown, low plasticity fines	ineu, poony gi	aueu,					
39.4	2.2 -												
						Coarse grained content increasing	g from 2.25 m						
39.2	2.4 -												
			CL	w <pl< td=""><td>Fb</td><td>Sandy CLAY. Low plasticity, orange brown mottling, fine to coarse gra</td><td>ge brown with</td><td>minor dark</td><td></td><td></td><td></td><td></td></pl<>	Fb	Sandy CLAY. Low plasticity, orange brown mottling, fine to coarse gra	ge brown with	minor dark					
39.0	2.6 -					Stown moding, line to waise gla	mou sanus						
			SC	D	D	Clayey SAND. Fine to coarse grain	ined, poorly q	aded,					
38.8	2.8 -					orange-brown, low plasticity fines	. , ,						
			CL	w <pl< td=""><td>Fb</td><td>Sandy CLAY. Low plasticity, oran</td><td>ge brown with</td><td>minor dark</td><td></td><td></td><td></td><td></td></pl<>	Fb	Sandy CLAY. Low plasticity, oran	ge brown with	minor dark					
38.6	3.0-					brown mottling, fine to coarse gra	ined sands						
38.4	3.2 -												
20.0													
38.2	3.4 -		SC	D	D	Clayey SAND. Fine to coarse grain	ined, poorly gi	aded,					
20.0						orange-brown, low plasticity fines							
38.0	3.6 -												
27.0	2.0		CI	w <pl< td=""><td>Fb</td><td>Sandy CLAY. Medium plasticity, o coarse grained sands</td><td>range-brown</td><td>and grey, fine to</td><td></td><td></td><td></td><td></td></pl<>	Fb	Sandy CLAY. Medium plasticity, o coarse grained sands	range-brown	and grey, fine to					
37.8	3.8 -					ooaise giallieu sailus							
37.6	<i>1</i> n_												
	4.0					End of Hole at 4.0 m, target depth	reached						

PROJECT NO.

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tonl	an T	97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486		BOREHO	DLE NUMBER		BH12
CLIENT	Wentworth Shire Council			NORTHI	NG 622278	ô	ELEVATION (mAHD) 41.6
PROJECT	Buronga Landfill Expansi	ion Detailed Design		EASTING	611156		TOTAL DEPTH (mBGL) 4.00
LOCATION	Wentworth, NSW						
STARTED	17/03/2023	COMPLETED	17/03/2023	SYMBOL	SWL (mBGL)	DATE	NOTES
CONTRACTOR	Berri Drafting & Drilling	LOGGED BY	IPN	Ţ			Groundwater not encountered
EQUIPMENT	Rockmaster	CHECKED BY	MA	$\overline{\Delta}$			
METHOD	PT	PERMIT NO.		Ā			



ADDITIONAL NOTES

to	n	(In		M	7 Pine A lildura V +61 3 5		TEST PI	T NUMBER			TP01
CLIEN	Т	Wentwo	rth Shire	Council			NORTHII	NG 622286	31.157	ELEVATION (mAHD) 44.244	
PROJE	CT	Buronga	a Landfill	Expansion	n Detaile	ed Design	EASTING	609969	9.976		TOTAL DEPTH (mBGL) 1.2
LOCAT	ΓΙΟΝ	Wentwo	rth, NSV	٧		-					
START	ED	21/03/20	023		COMF	PLETED 21/03/2023	SYMBOL	SWL (mBGL)	DATE		NOTES
CONTI	RACTOR	Wentwo	rth Shire	Council	LOGG	ED BY IPN	Ţ	<u> </u>			Groundwater not encountered
EQUIP	MENT	25t Exca	avator		CHEC	KED BY MA	$\overline{\Sigma}$				
METH	OD	Е			PERM	IIT NO.	Ā				
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION	N AND OBSERVATIONS		SAMPLE	SAMPLE TYPE /ID	COMMENTS/OBSERVATIONS
44.1	0.1 -		SC	D	D	Mixture of Calcareous Clay Calcrete Cobbles. Fine to c Sand, pale brown to orange	coarse grained Calc e brown, low plastic	areous Clayey city fines, with			
44.0	0.2 -					fine to coarse grained grave angular to sub-angular to 3	els, sub-angular, 20 300 mm, 5% cobble	0% boulders, s, sub-angular			
43.9	0.3 -							-,			
43.8	0.4 -										
43.7	0.5 -										
43.6	0.6 -										
43.5	0.7 -										
43.4	0.8 -										
43.3	0.9 -										
43.2	1.0		SC	D	D	Clayey SAND. Fine to coar	se grained, orange	brown, low			
43.1	1.1 -					plasticity, with fine to coarse	e grained gravels				
43.0	1.2 -	\'J\Z\J\'J				End of hole at 1.2 m, no wa	aste encountered				
	-										
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ADDITIONAL NOTES

Located in drop off area

to	nk	เเท	97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486						T NUMBER			TP02								
CLIEN	ſ	Wentwo	rth Shire	Council				NORTHING 6222975.596				ELEVATION (mAHD) 45.060								
PROJE	CT	Buronga	a Landfill	Expansio	n Detaile	ed Design		EASTING	6105	15.848		TOTAL DEPTH (mBGL) 0.9								
LOCAT	ION	Wentwo	rth, NSV	V																
START	ED	21/03/20	023		COMP	LETED	ETED 21/03/2023		SWL (mBGL)		DATE	NOTES								
CONTR	RACTOR	Wentwo	rth Shire	Council	LOGG	ED BY	IPN	T				Groundwater not encountered								
EQUIP	MENT	25t Exca	t Excavator		xcavator		it Excavator		5t Excavator		t Excavator		CHECKED BY MA		MA	Ā	Ţ.			
METHO	DD	E			PERM	IIT NO.		Ā												
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY		DESCRIPTION AND OF	BSERVATIONS		SAMPLE	SAMPLE TYPE /ID	COMMENTS/OBSERVATIONS								
45.0	0.1		-	M D	MD	and Ca pale br	lixture of Calcareous Claye Icrete Cobbles, fine to coa own to orange brown, low grained gravels, sub-angu	rse grained of plasticity fine	clayey sand, s, with fine to											
44.9	0.2	$\times\!\!\times\!\!\times$					angular to 300 mm, 5% col													
44.8	0.3		-	М	MD	FILL. C	layey Sand, stained black,	potentially le	eachate	\dashv										
14.7	0.4					to leach	ed and strong waste/organ nate impact but inferred to													
44.6	0.5					inclusio	ons.													
44.5	0.6																			
14.4	0.7																			
44.3	0.8																			
44.2	0.9	XXXXX				End of	hole at 0.9 m. Leachate im	pacted soils	and edge of	-										
	_						nclusions indicate inferred													
	7																			
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ADDITIONAL NOTES

Edge of exiting landfill

to	nk	เเท	97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486						T NUMBER			TP03						
CLIENT	•	Wentwo	rth Shire	Council				NORTHING 6223001.724				ELEVATION (mAHD) 40.524						
PROJE	СТ	Buronga	a Landfill	Expansio	n Detaile	ed Design		EASTING	6106	91.21		TOTAL DEPTH (mBGL) 1.0						
LOCAT	ION	Wentwo	rth, NSV	V														
START	ED	21/03/20	023		COMPLETED 21/03/2023		SYMBOL	SWL (mBGL)		DATE	NOTES							
CONTR	ACTOR	Wentwo	entworth Shire Council of Excavator		LOGG	ED BY	IPN	¥				Groundwater not encountered						
EQUIPI	MENT	25t Exca			cavator		t Excavator		Excavator		Excavator		CHEC	KED BY	MA	$\overline{\nabla}$		
METHOD E		E				IT NO.		Ā										
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY		DESCRIPTION AND OF	SSERVATIONS		SAMPLE	SAMPLE TYPE /ID	COMMENTS/OBSERVATIONS						
40.4	0.1		-	M D	MD		alcareous clayey sand, pal ty, with fine to coarse grain ons											
40.3	0.2																	
40.2	0.3			М	MD	EII C	layey Sand, stained black,	notontially	aahata									
10.1	0.4		-	IVI	MU	impacto to lead	ed and strong waste/organ nate impact but inferred to	ics odour. No	tactile log due									
40.0 39.9	0.5 - 0.6 -					inclusio	ons.											
39.8	0.7																	
39.7	0.8																	
39.6	0.9	>>>>																
39.5	1.0		SC	D	D	Clayey plastici	SAND. Fine to coarse grainty, with fine to coarse grain	ned, orange ed gravels	brown, low									
	1	LLIYY				End of waste i	hole at 1.2 m. Edge of lead nclusions inferred extent of	chate impacto f waste.	ed soils and									
	-																	
	-																	
	-																	
	-																	



ADDITIONAL NOTES

Edge of exiting landfill

to	nk	เท	d	M	7 Pine A ildura VI +61 3 5			TEST PI	T NUMBER			TP04
CLIEN	Т	Wentworth Shire Council						NORTHING 6222963.076			ELEVATION (mAHD) 39.611	
PROJECT		Buronga Landfill Expansion Detailed Design					EASTING 610765.52				TOTAL DEPTH (mBGL) 0.9	
LOCATION		Wentworth, NSW										
STARTED		21/03/20)23		COMPLETED 21/03/2023			SYMBOL	SWL (mBGL)		DATE	NOTES
CONTRACTOR		Wentworth Shire Council			LOGGED BY IPN			Ā				Groundwater not encountered
EQUIPMENT		25t Excavator			CHECKED BY MA		$\overline{\Delta}$					
METHOD		Е			PERMIT NO.		Ā					
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG USCS CLASS.			DENSITY/ CONSISTENCY	DESCRIPTION AND OBS				SAMPLE	SAMPLE TYPE /ID	COMMENTS/OBSERVATIONS
39.5	0.1		-	M D	MD		alcareous clayey sand, pa ty, with fine to coarse grain nout					
39.4	0.2		-	D	MD	FILL. S	and, fine to coarse grained	d, poorly grad	ded, grey, trace			
39.3	0.3			D	MD		sticity fines, organics throu alcareous clayey sand, pa		Lorongo lour	-		
39.2	0.4	plasticity, with fine to coarse grain inclusions						ed gravels, v				
39.1	0.5	XXX										
39.0	0.6	>>>>										
38.9	0.7	XXX										
38.8	0.8											
38.7	0.9		-	-	-	Waste.	Mixed, plastic bags, chip p	ackets, plas	tics, cardboard.			
	-				End of hole at 1.0 m. Waste encountered.							
	-											



ADDITIONAL NOTES

Edge of exiting landfill

PROJECT NO.

Screen

PAGE 2 OF 3

PROJECT NO.

PAGE 3 OF 3

PROJECT NO.

PROJECT NO. 202597

PAGE 2 OF 2

PROJECT NO.

PROJECT NO.

PAGE 2 OF 3

PROJECT NO.

BOREHOLE NUMBER 97 Pine Avenue tonkın Mildura VIC 3500 T +61 3 5021 4486 CLIENT **NORTHING** 6223245.46 **ELEVATION (mAHD)** 39.566 Wentworth Shire Council **PROJECT EASTING** 610893.05 TOTAL DEPTH (m BGL) 13.00 Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW STARTED SYMBOL SWL (mTOC) 17/04/2023 **COMPLETED** 17/04/2023 DATE NOTES Stickup finish in yellow steel standpipe Monitoring Point Elevation to top of PVC 40.524 mAHD CONTRACTOR In-Depth Drilling LOGGED BY IPN 7.8 18/04/2023 ∇ **EQUIPMENT** Rockmaster **CHECKED BY** MA 1 **METHOD** ΑU PERMIT NO. SAMPLE ID GRAPHIC LOG MOISTURE SAMPLE SPT (N Value) USCS CLASS. ELEV (m AHD) DEPTH (m) WELL CONSTRUCTION DESCRIPTION AND OBSERVATIONS No recovery (continued) 27.0 13.0 End of hole at 13.0 m, hole collapsing 26.0 25.0 24.0 23.0 22.0

PAGE 3 OF 3

PROJECT NO.