

WANT Geotechnics

Site Classification & Bearing Capacity Assessment

For 44 Lots in

Stage 3A, Zuccoli, Northern Territory

Prepared for HiQA

Project NTG2018818

16 September 2018

PROVIDED FOR INFORMATION PURPOSES ONLY
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- BUILDERS/BUYERS ARE TO INFORM THEMSELVES

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Date: 16 September 2018.....

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Site Classification & Bearing Capacity Assessment for 44 Lots in Stage 3A, Zuccoli, Northern Territory

1. Introduction

WANT Geotechnics (WANT) was commissioned to undertake a review of geotechnical investigation data relating to the site classification and bearing capacity of 44 Lots developed as Stage 3A, Zuccoli in the Northern Territory. The review was commissioned by HiQA Darwin.

The assessment of individual lot site classification has been undertaken in general accordance with AS2870. The assessment of bearing capacity has been in accordance with the methodology presented in MJ Stockwell (1977) and titled *Determination of Allowable Bearing Pressure Under Small Structures*.

The geotechnical investigation undertaken by HiQA comprised:

- Drilling of a total of 68 boreholes, typically 1.5 to 2 boreholes per lot; and
- A dynamic cone penetrometer test adjacent to each borehole.

This report presents a review of the data and certification of the site class and bearing capacity of each lot based on data provided by HiQA Darwin, a copy of the data is included in Appendix B.

In our judgement, the extent of this investigation has been sufficient to correlate the observed soil conditions with the known geology and published information for this area. However, localised variations are very difficult to locate using test holes and boreholes and natural soils can vary greatly over short distances. In which case, it would be prudent to commission site inspections during construction, in order that the true site conditions are verified.

2. Zuccoli Stage 3A

Zuccoli Stage 3A comprises 44 individual lots, varying in size from 368m² to 552m², earthworks to form the lots involved up to 0.75m of cut and up to 1.75m of fill. The earthworks were undertaken by Ostojic Pty Ltd, and Level 1 Supervision by HiQA Darwin. A plan showing the lot layout along with the cut and fill earthworks drawings are included in Appendix A.

3. Geology and Land System

The Extractive Geology of the Outer Darwin Area 1:100 000 Geological Series map indicates Stage 3A is underlain by Tertiary age laterite gravel and ferricrete.

Reference to NT Government Natural Resource Maps website indicates the site sits on land of the Bustad Land System (sandstone plains and rises and no occurrence of acid sulphate soils).

4. Assessment

Australian Standard AS 2870 provides a system of site classification as shown in the table below.

Class	Predicted Surface Movement	Foundation
A		Most sand and rock sites with little or no ground movement from moisture changes
S	<20mm	Slightly reactive clay or silt sites with slight ground movement from moisture changes
M	20mm to 40mm	Moderately reactive clay or silt sites which can experience moderate ground movement from moisture changes
H1	40mm to 60mm	Highly reactive clay site, which can experience high ground movement from moisture changes
H2	60mm to 75mm	Highly reactive clay site, which can experience very high ground movement from moisture changes
E	>75mm	Extremely reactive sites, which can experience extreme ground movement from moisture changes
A to P		Filled sites
P		Sites which include: soft soils, such as soft clays, silts or organic soils, loose sands, landslip, mine subsidence, collapsing soils, soils subject to erosion, reactive sites subject to abnormal moisture conditions, sites with highly variable conditions such as weathered dolerite dykes, and sites which cannot be classified otherwise.

Table 1 – AS2870 Site Classes

The following tables summarise the ground investigation and DCP results and provide an assessment of site class along with the assessed allowable bearing capacity at likely foundation depth (0.30m)

Lot	Summary of Strata			Site Class	DCP Blows per 100mm	Allowable Bearing Capacity at 0.30m
	Fill	Residual Soil (Gravel)	Weathered Rock			
14844	0.00-0.15m		0.15-0.80m	S	25	>380kPa
14845	0.00-0.40m	0.40-0.70m	0.70m	S	17, 25	>380kPa
14846	0.00-0.50m		0.50-1.00m	P equivalent to S	25	>380kPa
14847	0.00-0.60m		0.60-1.05m	P equivalent to S	25	>380kPa
14848	0.00-0.70m	0.70-0.85m	0.85-0.95m	P equivalent to S	25	>380kPa
14849	0.00-0.75m	0.75-0.95m	0.95-1.50m	P equivalent to S	25	>380kPa
14850	0.00-0.75m	0.75-0.85m	0.85-1.50m	P equivalent to S	25	>380kPa
14851	0.00-0.65m	0.65-0.85m	0.85-0.95m	P equivalent to S	25	>380kPa
14852	0.00-0.50m		0.50-0.80m	P equivalent to S	25	>380kPa
14853	0.00-0.15m		0.15-0.70m	P equivalent to S	25	>380kPa
14854	0.00-0.25m	0.25-0.50m	0.50-0.75m	S	25	>380kPa
14855	0.00-0.15m	0.15-0.30m	0.30-0.55m	S	25	>380kPa
14856	0.00-0.10m		0.10-0.35m	S	25	>380kPa
14857	0.00-0.10m		0.10-0.40m	S	25	>380kPa
14858	0.00-0.10m		0.10-0.40m	S	25	>380kPa
14859	0.00-0.15m		0.15-0.35m	S	25	>380kPa
14860	0.00-0.10m		0.10-0.55m	S	25	>380kPa
14861	0.00-0.10m		0.10-0.80m	S	25	>380kPa
14862	0.00-0.15m		0.15-1.05m	S	25	>380kPa
14863	0.00-0.50m		0.50-0.55m	P equivalent to S	25	>380kPa
14864	0.00-0.75m	0.75-0.90m	0.90m	P equivalent to S	25	>380kPa
14865	0.00-0.55m	0.55-0.85m	0.85m	P equivalent to S	25	>380kPa

Table 2 – Site Classification and Allowable Bearing Capacity for Lots 14844 to 14865

Lot	Summary of Strata			Site Class	DCP Blows per 100mm	Allowable Bearing Capacity at 0.30m
	Fill	Sand/Gravel	Weathered Rock			
14866	0.00-0.40m	0.40-0.50m	0.50-0.60m	P equivalent to S	25	>380kPa
14867	0.00-0.45m	0.45-0.65m	0.65-0.80m	P equivalent to S	25	>380kPa
14868	0.00-0.45m	0.45-0.80m	0.80m	P equivalent to S	25	>380kPa
14869	0.00-0.75m	0.75-0.95m	0.95-1.00m	P equivalent to S	25	>380kPa
14870	0.00-0.85m	0.85-0.95m	0.95-1.05m	P equivalent to S	25	>380kPa
14871	0.00-1.00m	1.00-1.2m	1.20-1.50m	P equivalent to S	12, 25	>380kPa
14872	0.00-1.00m	1.00-1.25m	1.25-1.40m	P equivalent to S	11, 14, 13, 25	280kPa
14873	0.00-1.05m	1.05-1.30m	1.30m	P equivalent to S	18, 25, 25	>380kPa
14874	0.00-0.60m		0.60-0.80m	P equivalent to S	16, 25	>380kPa
14875	0.00-0.50m	0.50-0.70m		P equivalent to S	15, 25	>380kPa
14876	0.00-0.50m		0.50-0.70m	P equivalent to S	18, 25	>380kPa
14877	0.00-0.40m		0.40-0.50m	S	18, 25	>380kPa
14878	0.00-0.20m	0.20-0.45m	0.45-0.75m	S	17, 25	>380kPa
14879	0.00-0.45m		0.45-1.00m	P equivalent to S	15, 25	>380kPa
14880	0.00-0.45m		0.45-0.90m	P equivalent to S	16, 25	>380kPa
14881	0.00-0.25m		0.25-0.85m	S	18, 25	>380kPa
14882	0.00-0.20m		0.20-0.40m	S	16, 25	>380kPa
14883	0.00-0.20m		0.20-0.70m	S	20, 25	>380kPa
14884	0.00-0.10m		0.10-0.20m	S	25	>380kPa
14885	0.00-0.10m		0.10-0.30m	S	25	>380kPa
14886	0.00-0.10m		0.10-0.35m	S	25	>380kPa
14887	0.00-0.10m		0.10-0.70m	S	21, 25	>380kPa

Table 3 – Site Classification and Allowable Bearing Capacity for Lots 14866 to 14887

5. Site Preparation

All earthworks should be carried out in general accordance with the requirements of AS 3798 *Guidelines on earthworks for commercial and residential developments*.

Prior to construction any remnant topsoil, uncontrolled fill and material containing organic matter should be stripped from the site. This material is not considered suitable for use as selected fill but can be stockpiled for later use as non-structural fill or for landscaping purposes.

The exposed surface should then be wetted or dried back to approximate optimum moisture content (OMC) and the exposed subgrade compacted to 95% Standard Maximum Dry Density as required by AS3798. A final test roll, under the supervision of a suitably qualified and experienced engineering geologist, should be undertaken to identify any remaining areas requiring further rolling (sand and gravel) or removal (clay and silt).

If required, additional fill for the building footprint should comprise granular material that is placed in 250mm thick layers, and then compacted to 95% modified maximum dry density ratio, within $\pm 2\%$ of OMC.

6. Foundations

Footing systems for residential dwellings on Class S and P equivalent to S sites can be designed in accordance with standard footings as set out in Section 3 of AS 2870.

P equivalent to S class means that in places the site is underlain by more than 0.40m of engineered fill, however because the fill has been engineered (rolled, moisture conditioned and compacted under Level 1 supervision) the fill can be considered equivalent to in situ material, in effect the site is classed as S Class.

7. Certification

Subject to the site preparation set out in Section 3, the data provided, the above review, and utilising Stockwell's method for the determination of bearing capacity, then all 44 Lots making up Zuccoli Stage 3A are certified as having:

- **an allowable bearing capacity of at least 100kPa at likely foundation depth (at least 0.30m depth);**
- **are Class S or P equivalent to S; and**
- **hence are considered suitable for the construction of single or double residential dwellings.**

8. References

1. Northern Territory Geological Survey *Extractive Minerals Within the Outer Darwin Area*
2. Australian Standard AS 2870 *Residential Slabs and Footings*
3. MJ Stockwell, 1977, *Determination of Allowable Bearing Pressure Under Small Structures*

9. Limitations

This report is provided for the exclusive use of HIQA and their client for this project only and for the purposes described in the report. It should not be used for other projects or by a third party. In preparing this report WANT has necessarily relied upon information provided by the client and/or others.

Geotechnical engineering is based extensively on judgment and opinion. It is far less exact than other engineering disciplines. Geotechnical engineering reports are prepared to meet the specific needs of individuals. The results provided in the report are indicative of the sub-surface conditions only at the specific testing locations to the depths investigated at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of anthropogenic influences.

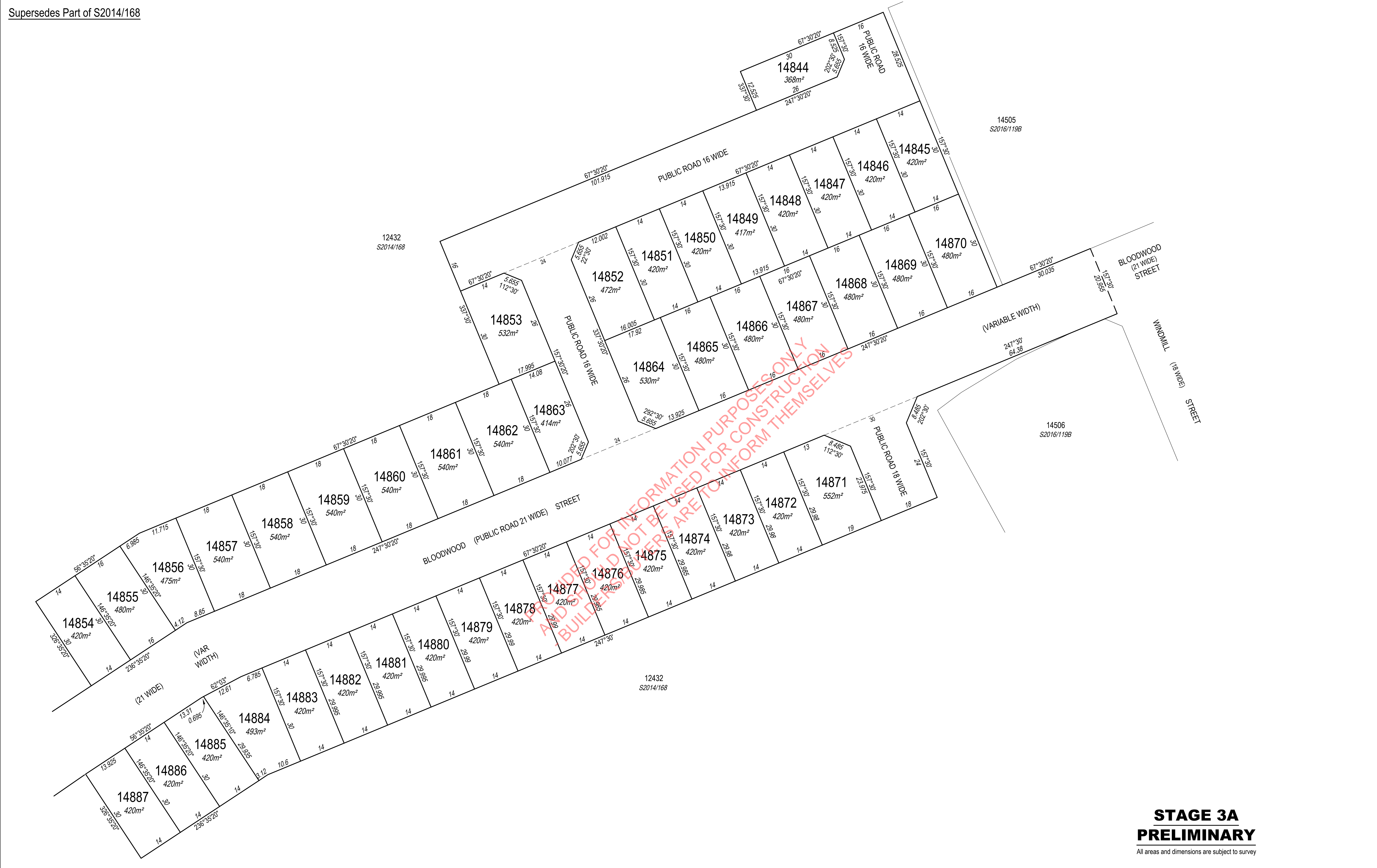
During construction, excavation is frequently undertaken which exposes the actual subsurface conditions. For this reason geotechnical consultants should be retained through the construction stage, to identify variations if they are exposed and to conduct additional tests which may be required and to deal quickly with geotechnical problems if they arise.

This report cannot be applied to other sites.

Appendix A

Subdivision Layout and Earthworks Drawings

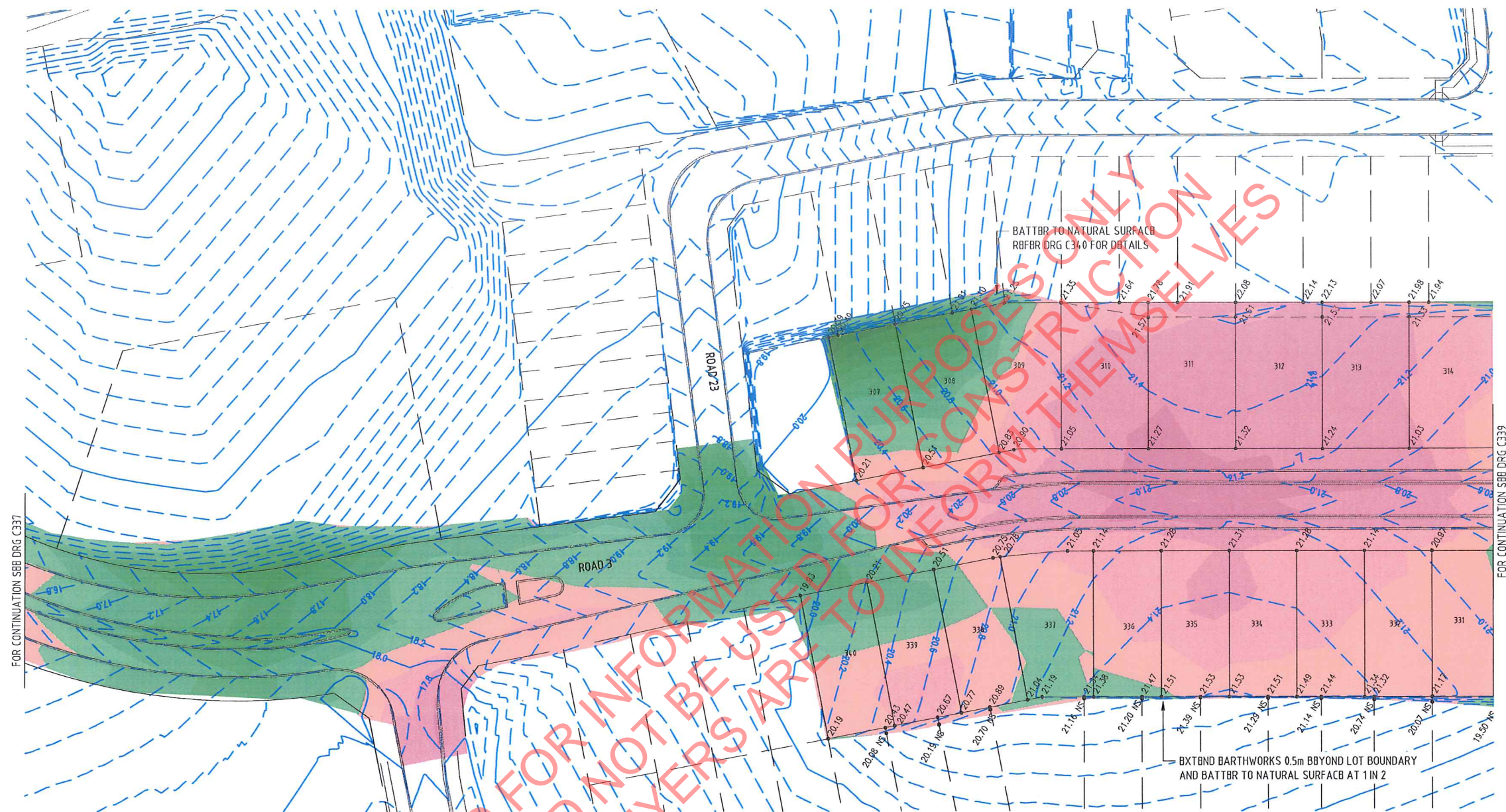
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**STAGE 3A
PRELIMINARY**

All areas and dimensions are subject to survey

<div>Keith Leslie Schulz</div> <div>hereby certify that the survey represented on this plan was carried out by me or under my supervision and was completed on and that this survey has been executed in accordance with the Licensed Surveyors Act and the Directions thereunder.</div> <div>Licensed Surveyor</div> <div>Date</div>		<table><tr><th colspan="4">AMENDMENTS</th></tr><tr><th>Reference</th><th>Details</th><th>Approved</th><th>Date</th></tr><tr><td></td><td></td><td></td><td></td></tr></table>				AMENDMENTS				Reference	Details	Approved	Date					<div>Note</div> <div>Area to be surrendered from Lot 12432 (CLT 2508) is Public Roads are vested in the City of Palmerston</div> <div>Version 1 - survey plan as lodged</div>	<div>Field Book</div> <div>EJA REF: 9512</div> <div>Drawn</div> <div>Earl James & Associates</div> <div>02.08.17</div> <div>Examined</div> <div>Earl James & Associates</div> <div>Map Reference</div>	<div></div> <div>Grid (Palmerston Datum)</div> <div>Bearings</div> <div>AZIMUTH</div> <div>Assumed from</div> <div>Observed at</div>	<div>LEGEND</div> <div>Concrete Post</div> <div>Concrete Block</div> <div>Peg or Wooden Post</div> <div>Reference Mark</div> <div>Lockspit</div> <div>Fence Post</div>	<div>LOTS 14844 TO 14887</div> <div>TOWN OF PALMERSTON</div> <div>SCALE 1:500 (A1)</div> <div></div> <div>S2017/062B</div> <div>SHEET 2 OF 3</div>
AMENDMENTS																						
Reference	Details	Approved	Date																			
<div>Northern Territory Government</div> <div>Department of Infrastructure, Planning & Logistics</div> <div>SURVEY APPROVED</div> <div>Acting Surveyor-General</div> <div>Date</div>																						



DEPTH RANGE LEGEND

2.25+ m		FILL
2.00 to 2.25 m		
1.75 to 2.00 m		
1.50 to 1.75 m		
1.25 to 1.50 m		
1.00 to 1.25 m		
0.75 to 1.00 m		
0.50 to 0.75 m		
0.25 to 0.50 m		CUT
0.00 to 0.25 m		
-0.25 to 0.00 m		
-0.50 to -0.25 m		
-0.75 to -0.50 m		
-1.00 to -0.75 m		
-1.25 to -1.00 m		
-1.50 to -1.25 m		
-1.75 to -1.50 m		
-1.75+m		

LEGEND - EARTHWORKS

• 12.80	FINISHED SURFACE LEVEL
• 12.78 NS	NATURAL SURFACE LEVEL
— 17.4	SURFACE CONTOURS (0.2M INTERVAL)

NOTES - EARTHWORKS

1. ALL BATTERS AT FRONT OF LOTS TO BE 1 ON 6, UNLESS NOTED OTHERWISE.
2. ALL BATTERS TO REAR AND SIDE BOUNDARIES TO BE 1 ON 2, UNLESS NOTED OTHERWISE. REFER DRG C340 FOR TYPICAL DETAILS.



WARNING

BWARE OF SERVICES
The locations of all existing services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown.

PERMISSION TO USE FOR CONSTRUCTION PURPOSES
ROADWORKS AND STORMWATER DRAINAGE

SIGNED DATE
DIRECTOR OF TECHNICAL SERVICES - CITY OF PALMERSTON
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REV	DESCRIPTION	TASK MAN.	APPROVED	DATE
0	ISSUED FOR CONSTRUCTION	LM	LM	12.07.17

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ASSOCIATED CONSULTANTS

CLIENT / PROJECT



COSTOJIC Pty Ltd
Stage 3A
Civilworks

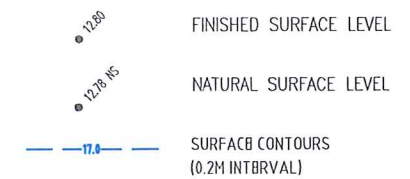


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EARTHWORKS PLAN
SHEET 2 OF 3

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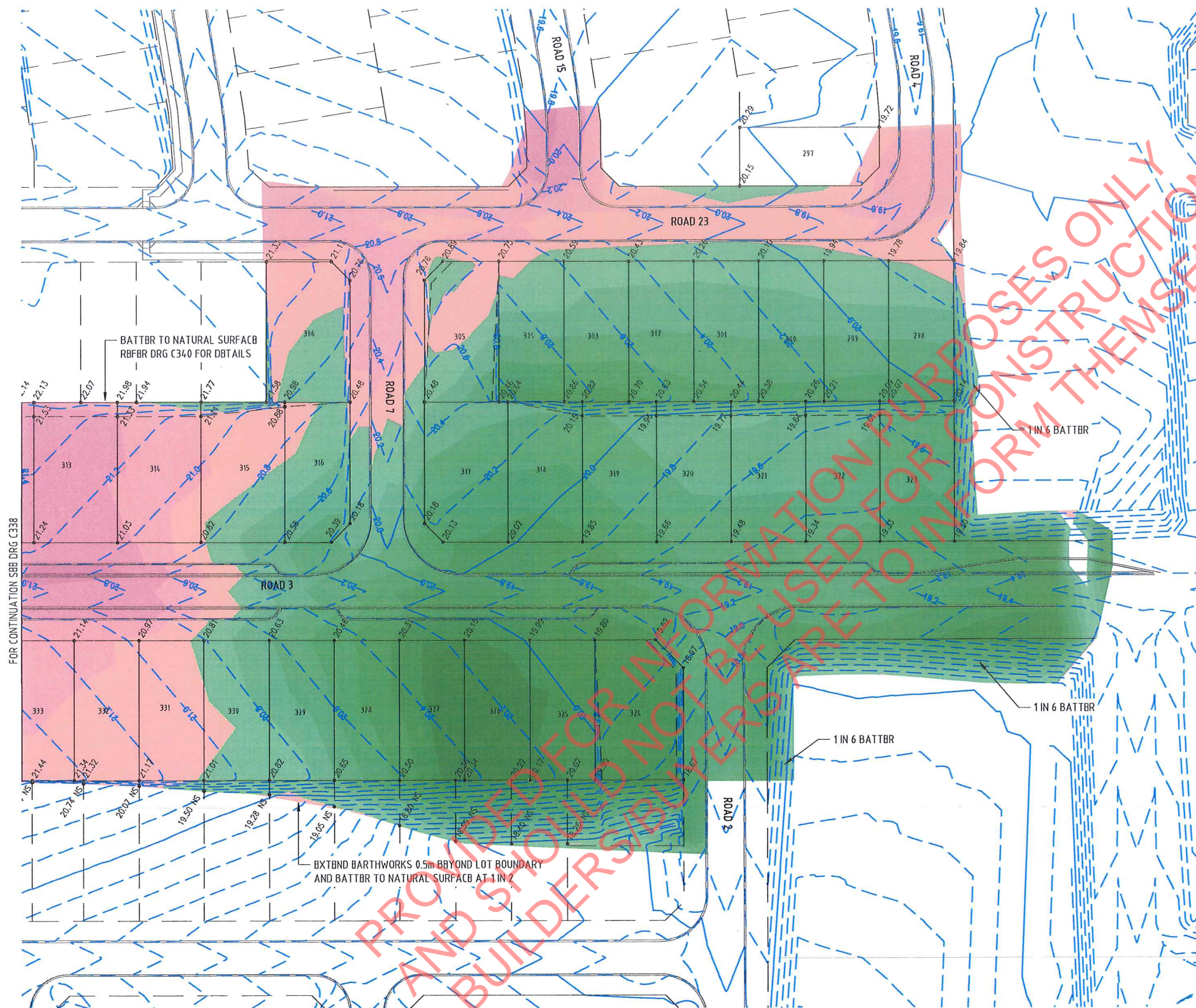
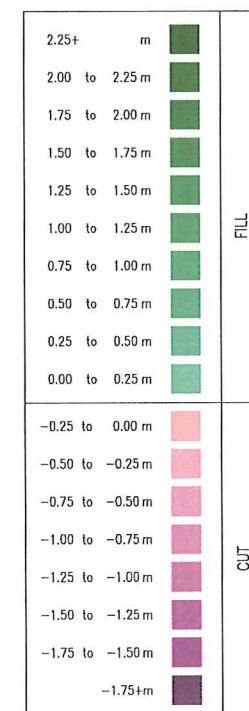
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DEPTH RANGE LEGEND



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COSTOJIC Pty Ltd
Stage 3A
Civilworks



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DRAWN	PW
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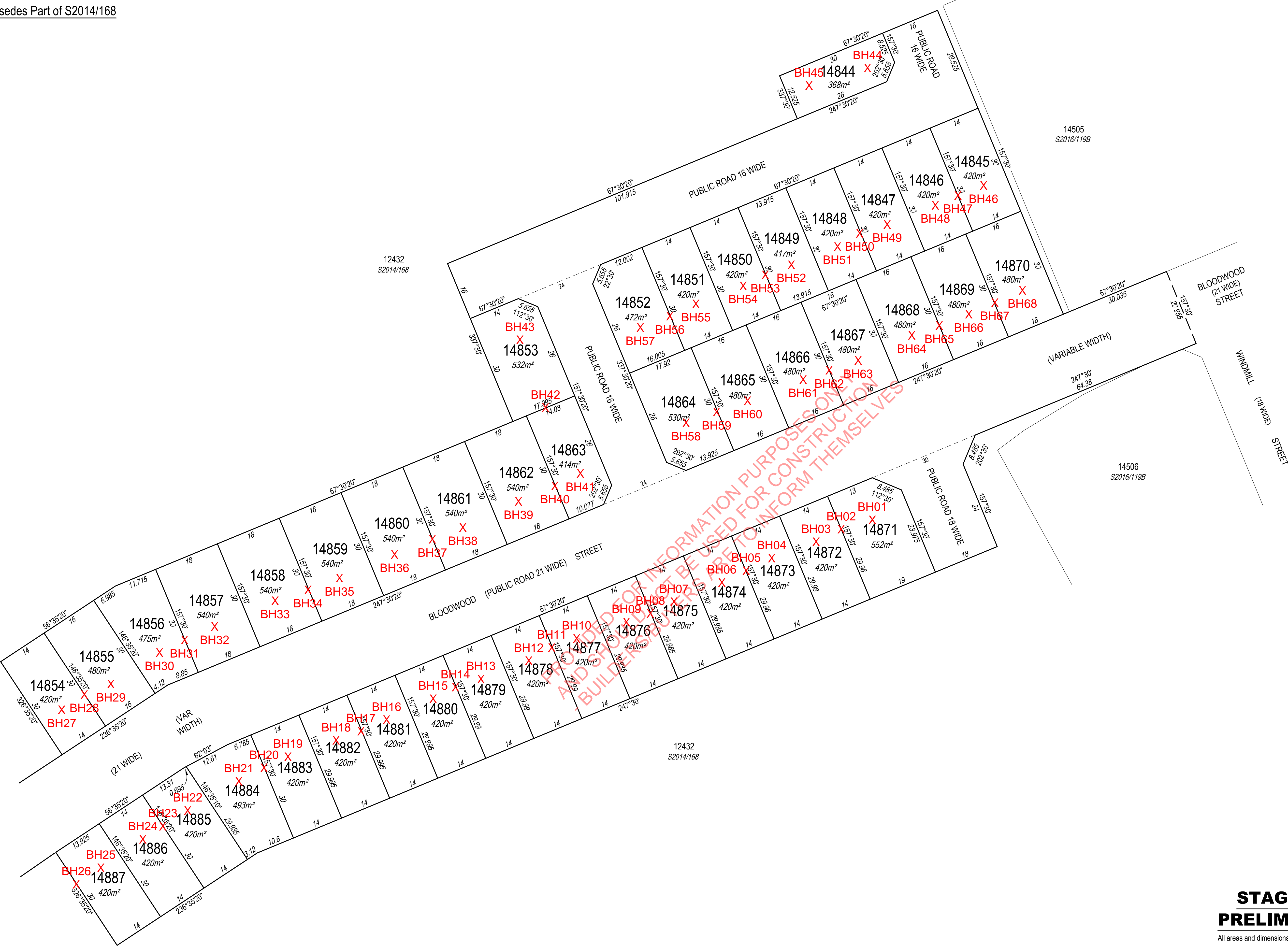
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EARTHWORKS PLAN
SHEET 3 OF 3

A1 FULL SIZE	DRAWING No. 4493-34-3-C339	REVISION 0
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Appendix B

HiQA Borehole Logs and Dynamic Cone Penetrometer Results

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**STAGE 3A
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<div><div><div>Keith Leslie Schulz</div><div>hereby certify that the survey represented on this plan was carried out by me or under my supervision and was completed on and that this survey has been executed in accordance with the Licensed Surveyors Act and the Directions thereunder.</div><div>Licensed Surveyor..... Date.....</div></div></div>		<table><tr><th colspan="4">AMENDMENTS</th></tr><tr><th>Reference</th><th>Details</th><th>Approved</th><th>Date</th></tr><tr><td></td><td></td><td></td><td></td></tr></table>				AMENDMENTS				Reference	Details	Approved	Date					<div>Note</div> <div>Area to be surrendered from Lot 12432 (CLT 2508) is Public Roads are vested in the City of Palmerston</div> <div>Version 1 - survey plan as lodged</div>		<table><tr><td>Field Book</td><td rowspan="4"><div><div><div><div></div></div></div><div>Grid (Palmerston Datum)</div></div></td><td rowspan="4"><div>LEGEND</div><div>Concrete Post .. □</div><div>Concrete Block .. ■</div><div>Peg or Wooden Post .. ○</div><div>Reference Mark .. x</div><div>Lockspit .. ►</div><div>Fence Post .. ⊗</div></td></tr><tr><td>EJA REF: 9512</td></tr><tr><td>Drawn</td></tr><tr><td>Earl James & Associates</td></tr><tr><td>02.08.17</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td>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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 01	0.00 – 1.00	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 01	1.00 – 1.20	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	-	Natural / Organic Roots
BH 01	1.20 – 1.50	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 20 15	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14871
GPS Location: UTM 52L
Northing 717843
Easting 8615605

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

HIQA.COM.AU

DARWIN

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 01	0.00 – 1.00	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 02	1.00 – 1.25	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Organic Roots
BH 02	1.25 – 1.40	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 20 15	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 1.40m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14871 – 14872
GPS Location: UTM 52L
Northing 717828
Easting 8615602

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 03	0.00 – 0.50	Dry	SM	Silty Gravelly Sand, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 03	0.50 – 1.00	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 03	1.00 – 1.25	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Angular-Sub Angular	RESIDUAL SOIL	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	EXTREMELY WEATHERD ROCK	Refusal @ 1.25m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14872
GPS Location: UTM 52L
Northing 717824
Easting 7615596

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 04	0.00 – 0.30	Dry	SM	Silty Gravelly SAND, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 04	0.30 – 1.05	Dry	GM	Silty Sandy GARVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 04	1.05 – 1.30	Dry	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Angular-Sub Angular	RESIDUAL SOIL	-
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	EXTREMELY WEATHERD ROCK	Refusal @ 1.30m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14873
GPS Location: UTM 52L
Northing 717613
Easting 8615591

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 05	0.00 – 0.25	Dry	SM	Silty Gravelly SAND, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 05	0.25 – 0.75	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 05	0.75 – 1.00	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	RESIDUAL SOIL	-
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	EXTREMELY WEATHERD ROCK	Refusal @ 1.0m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14873 – 14874
GPS Location: UTM 52L
Northing 717806
Easting 8615588

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 06	0.00 – 0.60	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 06	0.60 – 0.80	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.80m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14874
GPS Location: UTM 52L
Northing 717800
Easting 8615584

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 07	0.00 – 0.50	Dry	GM	Silty Sandy GRAVEL, Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 07	0.50 – 0.70	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	-	Refusal @ 0.70m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14875
GPS Location: UTM 52L
Northing 717788
Easting 8615583

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 08	0.00 – 0.50	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 5 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 08	0.50 – 0.70	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.70m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14875 – 14876
GPS Location: UTM 52L
Northing 717782
Easting 8615582

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 09	0.00 – 0.45	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 09	0.45 – 0.60	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.60m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14786
GPS Location: UTM 52L
Northing 717775
Easting 8615580

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 10	0.00 – 0.40	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BHJ 10	0.40 – 0.50	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 15	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.50m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14877
GPS Location: UTM 52L
Northing 717761
Easting 8615572

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 11	0.00 – 0.25	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 11	0.25 – 0.30	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.25m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14877 – 14878
GPS Location: UTM 52L
Northing 717754
Easting 8615567

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 12	0.00 – 0.20	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 12	0.20 – 0.45	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots & Organics
BH 12	0.45 – 0.75	Moist	GM	Silty Sandy GRAVEL, Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 0.75m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14878
GPS Location: UTM 52L
Northing 717749
Easting 8615564

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 13	0.00 – 0.20	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 13	0.20 – 0.30	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.30m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14879
GPS Location: UTM 52L
Northing 717735
Easting 8615558

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 14	0.00 – 0.25	Moist	-	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 14	0.25 – 0.45	Moist	-	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 14	0.45 – 1.00	Moist	-	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal@ 1.0m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14879 – 14880
GPS Location: UTM 52L
Northing 717727
Easting 8615555

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 15	0.00 – 0.25	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 15	0.25 – 0.90	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Roots Refusal @ 0.90m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14880
GPS Location: UTM 52L
Northing 717721
Easting 8615552

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 16	0.00 – 0.25	Moist	-	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 16	0.25 – 0.85	Moist	-	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Roots Refusal @ 0.85m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14881
GPS Location: UTM 52L
Northing 717709
Easting 8615550

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 17	0.00 – 0.20	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 17	0.20 – 0.50	Moist	SM	Silty Gravelly SAND, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	-	Roots
BH 17	0.50 – 0.80	Moist	GM	Silty Sandy GRAVEL, Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.80m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14881 – 14882
GPS Location: UTM 52L
Northing 717702
Easting 8615547

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 18	0.00 – 0.20	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 18	0.20 – 0.40	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Quartz / Refusal @0.40m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14882
GPS Location: UTM 52L
Northing 717694
Easting 8615543

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 19	0.00 – 0.20	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	25 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 19	0.20 – 0.50	Dry	GM	Silty Sandy GRAVEL, Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 15	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots
BH 19	0.50 – 0.70	Dry	SM	Silty Gravelly SAND, Dark Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 0.70m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
Lot 14883 GPS Location: UTM 52L Northing 717682 Easting 8615538												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 20	0.00 – 0.15	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 20	0.15 – 0.30	Dry	GM	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 15	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Quartz / Refusal @ 0.30m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14883 – 14884 GPS Location: UTM 52L Northing 717675 Easting 8615537												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 21	0.00 – 0.10	Dry	-	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 21	0.10 – 0.20	Moist	-	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.20m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14884 GPS Location: UTM 52L Northing 717662 Easting 8615533												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 22	0.00 – 0.10	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 22	0.10 – 0.30	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 0.30m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14885
GPS Location: UTM 52L
Northing 717653
Easting 8615531

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 23	0.00 – 0.10	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 23	0.10 – 0.35	Moist	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERED ROCK	Refusal @ 0.35m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14885 – 14886
GPS Location: UTM 52L
Northing 717645
Easting 8615529

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 24	0.00 – 0.10	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 24	0.10 – 0.30	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.30m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14886
GPS Location: UTM 52L
Northing 717641
Easting 8615525

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 25	0.00 – 0.10	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 25	0.10 – 0.70	Moist	GM	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots Refusal @ 0.70m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14887
GPS Location: UTM 52L
Northing 717632
Easting 8615510

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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22/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 26	0.00 – 0.15	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 26	0.15 – 0.65	Dry	GM	Silty Sandy GRAVEL, Dark Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERED ROCK	Refusal @ 0.65m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14887 – 14888
GPS Location: UTM 52L
Northing 717627
Easting 8615506

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 27	0.00 – 0.25	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	FILL	-
BH 27	0.25 – 0.50	Dry	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots!
BH 27	0.50 – 0.75	Dry	SM	Silty Gravelly SAND, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERED ROCK	Refusal @ 0.75m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14854
GPS Location: UTM 52L
Northing 717608
Easting 8615550

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 28	0.00 – 0.20	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 28	0.20 – 0.70	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Quartz Refusal @ 0.70m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14854 – 14855
GPS Location: UTM 52L
Northing 717617
Easting 8615554

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 29	0.00 – 0.15	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 10 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	
BH 29	0.15 – 0.30	Dry	GM	Silty Sandy GRAVEL, Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	-
BH 29	0.30 – 0.55	Dry	SM	Gravelly Silty SAND, Dark Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 0.55m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14855
GPS Location: UTM 52L
Northing 717622
Easting 8615558

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 30	0.00 – 0.10	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 10 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 30	0.10 – 0.35	Dry	GM	Silty Sandy GRAVEL, Very Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 0.35m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14856
GPS Location: UTM 52L
Northing 717632
Easting 8615567

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 31	0.00 – 0.15	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 31	0.15 – 0.65	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots / Refusal @ 0.65m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14856 – 14857 GPS Location: UTM 52L Northing 717643 Easting 8615569												

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 32	0.00 – 0.10	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 32	0.10 – 0.40	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots / Refusal @ 0.40m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14857 GPS Location: UTM 52L Northing 717647 Easting 8615573												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 33	0.00 – 0.10	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 33	0.10 – 0.40	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots / Refusal @ 0.40m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14858 GPS Location: UTM 52L Northing 717660 Easting 8615580												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 34	0.00 – 0.10	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 34	0.10 – 0.35	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots / Refusal @ 0.35m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14858 – 14859 GPS Location: UTM 52L Northing 717669 Easting 8615583												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 35	0.00 – 0.15	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 35	0.15 – 0.35	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots / Refusal @ 0.35m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14859 GPS Location: UTM 52L Northing 717678 Easting 8615586												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 36	0.00 – 0.10	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 36	0.10 – 0.55	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots / Refusal @ 0.55m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14860 GPS Location: UTM 52L Northing 717695 Easting 8615593												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 37	0.00 – 0.10	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 37	0.10 – 0.90	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots / Refusal @ 0.90m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14860 – 14861 GPS Location: UTM 52L Northing 717704 Easting 8615597												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 38	0.00 – 0.10	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 38	0.10 – 0.80	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots / Refusal @ 0.80m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14861 GPS Location: UTM 52L Northing 717711 Easting 8615599												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 39	0.00 – 0.15	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 39	0.15 – 1.05	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 1.05m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14862
GPS Location: UTM 52L
Northing 717744
Easting 8615612

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 40	0.00 – 0.10	Dry	-	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	25 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 40	0.10 – 0.30	Dry	-	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	FILL	-
BH 40	0.30 – 0.65	Dry	-	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 25 15	Fine to Course	Fine to Medium	Angular-Sub Angular	RESIDUAL SOIL	-
		-	-	-	-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	EXTREMELY WEATHERD ROCK	Refusal @ 0.65m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14862 – 14863
GPS Location: UTM 52L
Northing 717754
Easting 8615617

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 41	0.00 – 0.15	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 41	0.15 – 0.30	Dry	GM	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	FILL	Roots
BH 41	0.30 – 0.55	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.55m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14863 GPS Location: UTM 52L Northing 717765 Easting 8615617												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 42	0.00 – 0.25	Dry	-	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 42	0.25 – 0.50	Dry	-	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Roots
BH 42	0.50 – 0.75	Moist	-	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	
BH 42	0.75 – 1.00	Dry	-	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 1.0m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
Lot 14863 – 14853 GPS Location: UTM 52L Northing 717751 Easting 8615638												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 43	0.00 – 0.15	Dry	-	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 43	0.15 – 0.25	Moist	-	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots
BH 43	0.25 – 0.70	Moist	-	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 0.70m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14853
GPS Location: UTM 52L

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 44	0.00 – 0.15	Dry	-	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 44	0.15 – 0.60	Dry	-	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots Refusal @ 0.60m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14844 GPS Location: UTM 52L Northing 717843 Easting 8615729												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 45	0.00 – 0.15	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 45	0.15 – 0.35	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Roots
BH 45	0.35 – 0.80	Moist	SM	Gravelly Silty SAND, Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 35	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 0.80m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
Lot 14844 GPS Location: UTM 52L Northing 717834 Easting 8615723												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 46	0.00 – 0.35	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 25 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 46	0.35 – 0.70	Dry	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	RESIDUAL SOIL	Roots
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	EXTREMELY WEATHERD ROCK	Refusal @ 0.70m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14845
GPS Location: UTM 52L
Northing 717868
Easting 8615694

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 47	0.00 – 0.40	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	25 30 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 47	0.40 – 0.75	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	RESIDUAL SOIL	-
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	EXTREMELY WEATHERD ROCK	Refusal @ 0.75m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14845 – 14846 GPS Location: UTM 52L Northing 717862 Easting 8615692												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 48	0.00 – 0.50	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 48	0.50 – 1.00	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 1.0m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14846
GPS Location: UTM 52L
Northing 717857
Easting 8615689

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 49	0.00 – 0.60	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 49	0.60 – 0.80	Dry	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-
BH 49	0.80 – 1.05	Dry	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 1.05m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
Lot 14847 GPS Location: UTM 52L Northing 717844 Easting 8615687												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 50	0.00 – 0.60	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 50	0.60 – 0.70	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 50	0.70 – 0.90	Dry	GM	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 0.90m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14847 – 14848
GPS Location: UTM 52L
Northing 717836
Easting 8615684

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 51	0.00 – 0.70	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 51	0.70 – 0.85	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 51	0.85 – 0.95	Dry	GM	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 0.95m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14848
GPS Location: UTM 52L
Northing 717831
Easting 8615681

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 52	0.00 – 0.75	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 52	0.75 – 0.95	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 52	0.95 – 1.50	Dry	GM	Silty Sandy GRAVEL, Dark Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	No Refusal
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14849
GPS Location: UTM 52L
Northing 717819
Easting 8615678

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 53	0.00 – 0.80	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 53	0.80 – 0.95	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 53	0.95 – 1.50	Dry	GM	Silty Sandy GRAVEL, Dark Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	No Refusal
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14849 – 14850
GPS Location: UTM 52L
Northing 717810
Easting 8615675

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 54	0.00 – 0.75	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 54	0.75 – 0.85	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 54	0.85 – 1.50	Dry	GM	Silty Sandy GRAVEL, Dark Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	No Refusal
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14850
GPS Location: UTM 52L
Northing 717802
Easting 8615672

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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23/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 55	0.00 – 0.65	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	25 30 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 55	0.65 – 0.85	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 55	0.85 – 0.95	Moist	GM	Silty Sandy GRAVEL, Dark Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	RESIDUAL SOIL	-
-	-	-	-	-	-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	EXTREMELY WEATHERED ROCK	Refusal @ 0.95m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
Lot 14851 GPS Location: UTM 52L Northing 717792 Easting 8615666												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 56	0.00 – 0.50	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 56	0.50 – 0.55	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	-
BH 56	0.55 – 1.50	Moist	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	No Refusal
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14851 – 14852
GPS Location: UTM 52L
Northing 717784
Easting 8615666

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 57	0.00 – 0.30	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 35 25	Fine to Course	Fine to Course	Sub Angular-Sub Rounded	FILL	-
BH 57	0.30 – 0.80	Dry	SM	Gravelly Silty SAND, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Roots / Refusal @ 0.80m
	-	-	-	-	-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	-
	-	-	-	-	-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	-
	-	-	-	-	-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	-
Lot 14852 GPS Location: UTM 52L Northing 717778 Easting 8615666												

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 58	0.00 – 0.75	Dry	GM	Silty Sandy GRAVEL, Dark Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 58	0.75 – 0.90	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 15 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
-	-	-	-	-	-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	EXTREMELY WEATHERD ROCK	Refusal @ 0.90m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14864
GPS Location: UTM 52L
Northing 717789
Easting 8615633

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 59	0.00 – 0.65	Dry	GM	Silty Sandy GRAVEL, Dark Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 59	0.65 – 0.90	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
-	-	-	-	-	-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	EXTREMELY WEATHERD ROCK	Refusal @ 0.90m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14864 – 14865
GPS Location: UTM 52L
Northing 717795
Easting 8615639

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 60	0.00 – 0.55	Moist	-	Silty Sandy GRAVEL, Dark Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 60	0.55 – 0.75	Moist	-	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 60	0.75 – 0.85	Moist	-	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
-	-	-	-	-	-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	EXTREMELY WEATHERD ROCK	Refusal @ 0.85m
-	-	-	-	-	-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	-

Lot 14865
GPS Location: UTM 52L
Northing 717802
Easting 8615644

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 61	0.00 – 0.40	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 61	0.40 – 0.50	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 61	0.50 – 0.60	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 20 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Roots / Refusal @ 0.60m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14866
GPS Location: UTM 52L
Northing 717818
Easting 8615650

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 62	0.00 – 0.50	Moist	GM	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 62	0.50 – 0.75	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 15 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 62	0.75 – 1.05	Moist	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 1.05m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14866 – 14867
GPS Location: UTM 52L
Northing 717826
Easting 8615652

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 63	0.00 – 0.45	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 63	0.45 – 0.65	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 63	0.65 – 0.80	Dry	SM	Silty SAND with Gravel, Very Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	4 10 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 0.80m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14867
GPS Location: UTM 52L
Northing 717835
Easting 8615654

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 64	0.00 – 0.45	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 64	0.45 – 0.60	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 64	0.60 – 0.80	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
-	-	-	-	-	-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	EXTREMELY WEATHERD ROCK	Refusal @ 0.80m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14868
GPS Location: UTM 52L
Northing 717851
Easting 8615659

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 65	0.00 – 0.50	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 65	0.50 – 0.85	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 65	0.85 – 1.10	Moist	SM	Silty SAND with Gravel, Very Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	3 10 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal @ 1.10m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14868 – 14869
GPS Location: UTM 52L
Northing 717856
Easting 8615660

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 66	0.00 – 0.75	Moist	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 66	0.75 – 0.95	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 66	0.95 – 1.00	Moist	GM	Silty Sandy GRAVEL, Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 1.0m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Lot 14869
GPS Location: UTM 52L
Northing 717866
Easting 8615663

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24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 67	0.00 - 0.85	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 67	0.85 – 1.00	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 67	1.00 – 1.10	Dry	GM	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	20 15 15	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 1.10m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14869 – 14870
GPS Location: UTM 52L
Northing 717875
Easting 8615664

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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POSTAL: PO BOX 3569, ALICE SPRINGS NT 0871

24/08/2018			Drill Rig/Excavator :		Excavator				Surface Elevation :		Finished Surface	
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 68	0.00 – 0.85	Dry	GM	Silty Sandy GRAVEL, Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 68	0.85 – 0.95	Moist	GM	Silty Sandy GRAVEL, Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Roots
BH 68	0.95 – 1.05	Dry	GM	Silty Sandy GRAVEL, Pale Orange Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 20 15	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal @ 1.05m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	-	-	-	-	-	

Lot 14870
GPS Location: UTM 52L
Northing 717881
Easting 8615667

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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Report No: PR:WD18-1262-S1

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 01 - Lot 14871



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[Signature]

Approved Signatory: Matthew Dunkley
(Darwin Laboratory Branch Leader)

Date of issue: 11/09/2018

Test Details

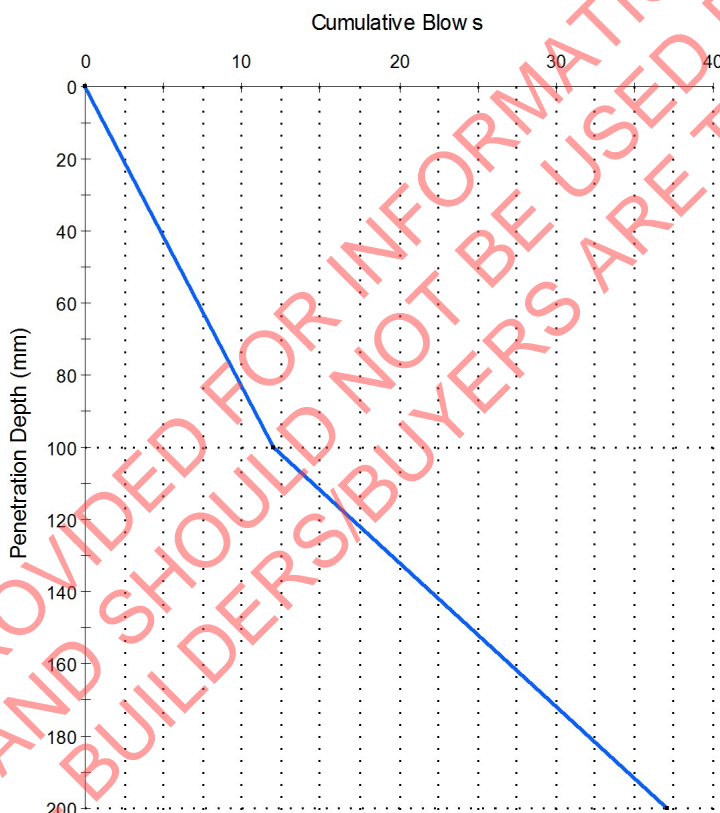
Sample ID: WD18-1262-S1
Location: Bore Hole 01
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	12
2	200	37

Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S1

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 01 - Lot 14871

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 (Darwin Laboratory Branch Leader)

Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	12	12	100	
2	25	37	200	

Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S2

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 02 - Lot 14871/14872

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Test Details

Sample ID: WD18-1262-S2
Location: Bore Hole 02
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	14
2	200	39

Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S2

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 02 - Lot 14871/14872

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Date of issue: 11/09/2018

Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	14	14	100	
2	25	39	200	

Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S3

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 03 - Lot 14872

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Test Details

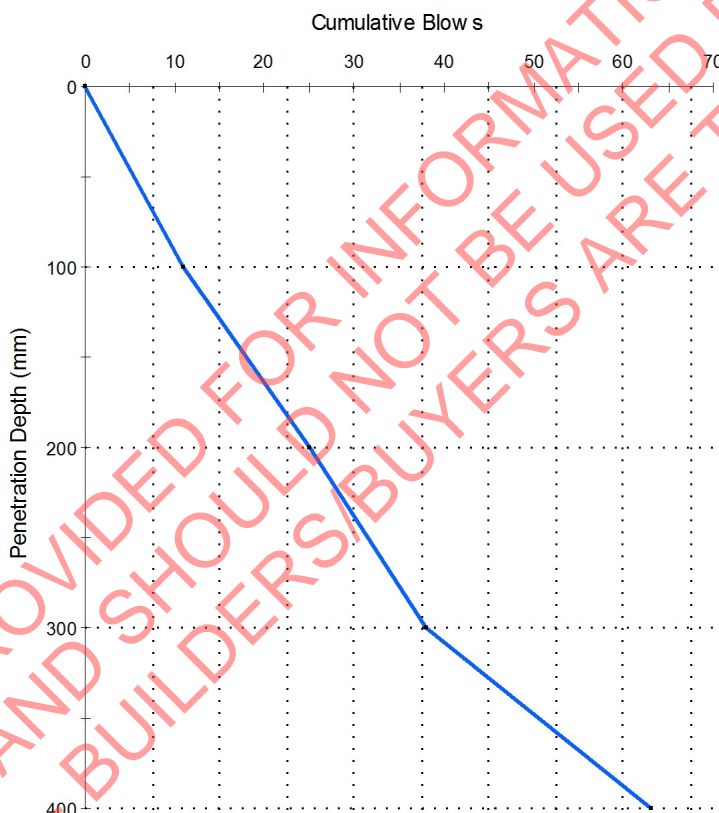
Sample ID: WD18-1262-S3
Location: Bore Hole 03
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance (AS 1289.6.3.2)

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	11
2	200	25
3	300	38
4	400	63


Comments

Note: Refusal reached @ 460mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 03 - Lot 14872

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 Date of issue: 11/09/2018

Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	11	11	100	
2	14	25	200	
3	13	38	300	150
4	25	63	400	250

Comments

Note: Refusal reached @ 460mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S4

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 04 - Lot 14873

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 Date of Issue: 11/09/2018

Test Details

Sample ID: WD18-1262-S4
Location: Bore Hole 04
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	18
2	200	43
3	300	68

Comments

Note: Refusal reached @ 330mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S4

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 04 - Lot 14873



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Approved Signatory: Matthew Dunkley
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Date of issue: 11/09/2018

Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	18	18	100	
2	25	43	200	
3	25	68	300	150

Comments

Note: Refusal reached @ 330mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S5

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 05 - Lot 14873/14874

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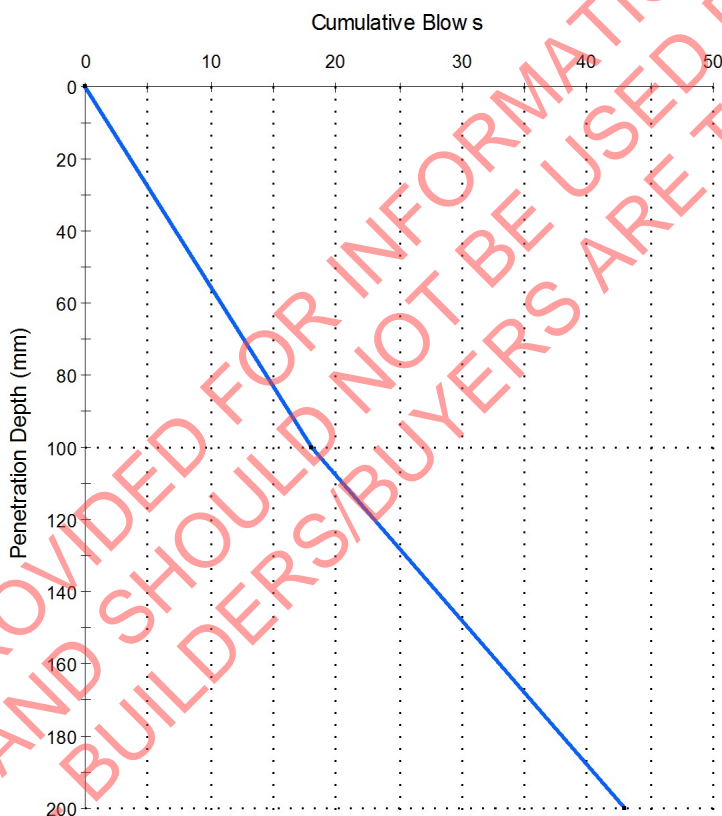
Test Details

Sample ID: WD18-1262-S5
Location: Bore Hole 05
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	18
2	200	43

Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S5

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 05 - Lot 14873/14874

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	18	18	100	
2	25	43	200	

Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S6

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 06 - Lot 14874

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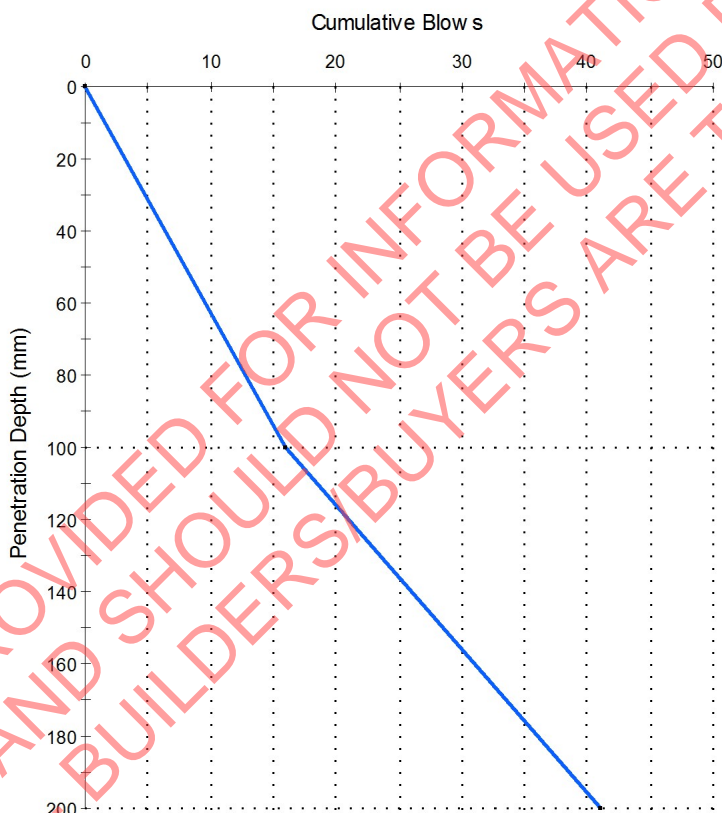
Test Details

Sample ID: WD18-1262-S6
Location: Bore Hole 06
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Sandy Silty GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	16
2	200	41


Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 06 - Lot 14874

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	16	16	100	
2	25	41	200	

Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S7

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 07 - Lot 14875



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Date of issue: 11/09/2018

Test Details

Sample ID: WD18-1262-S7
Location: Bore Hole 07
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	15
2	200	40

Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S7

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 07 - Lot 14875

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	15	15	100	
2	25	40	200	

Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S8

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 08 - Lot 14875/14876

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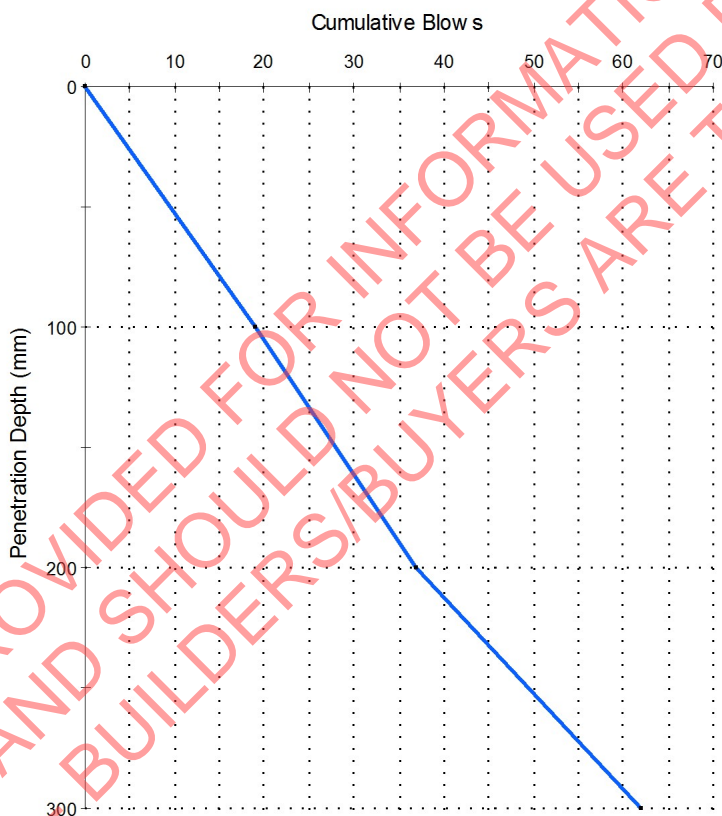
Test Details

Sample ID: WD18-1262-S8
Location: Bore Hole 08
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	19
2	200	37
3	300	62

Comments

Note: Refusal reached @ 340mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S8

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 08 - Lot 14875/14876

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	19	19	100	
2	18	37	200	
3	25	62	300	150

Comments

Note: Refusal reached @ 340mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S9

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 09 - Lot 14876



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Test Details

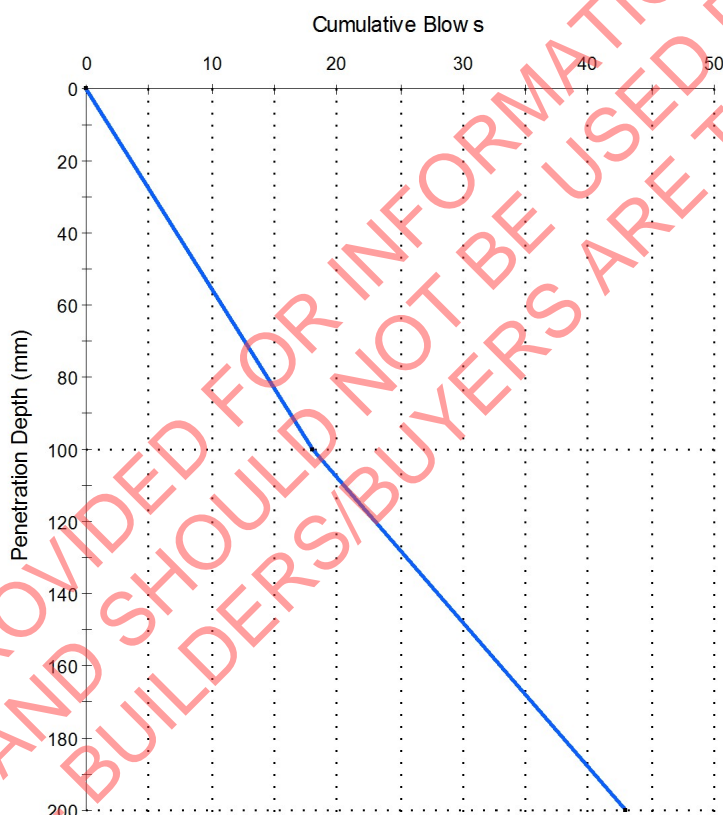
Sample ID: WD18-1262-S9
Location: Bore Hole 09
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	18
2	200	43


Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 09 - Lot 14876

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	18	18	100	
2	25	43	200	

Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S10

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 10 - Lot 14877

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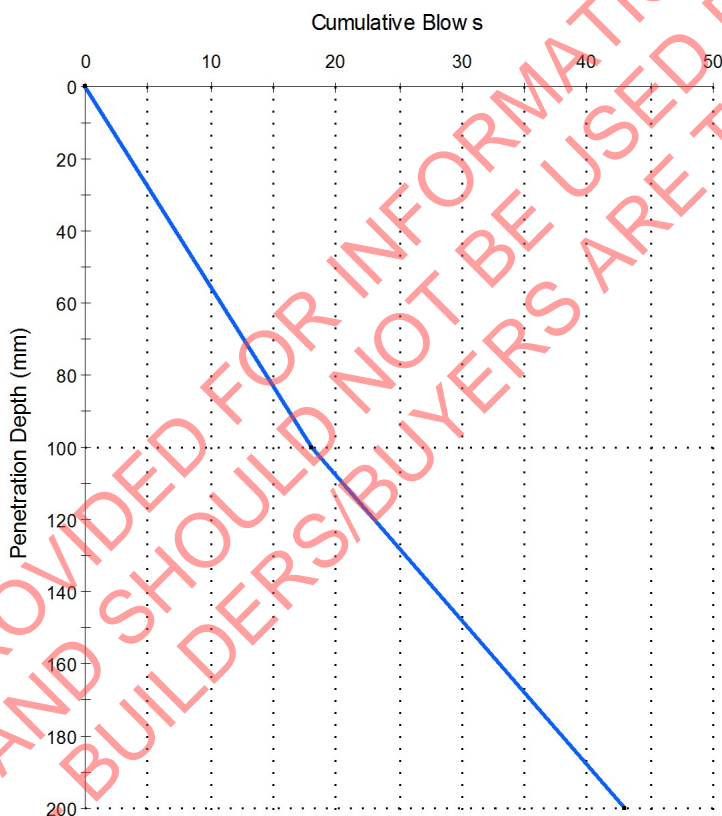
Test Details

Sample ID: WD18-1262-S10
Location: Bore Hole 10
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	18
2	200	43


Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 10 - Lot 14877

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	18	18	100	
2	25	43	200	

Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S11

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 11 - Lot 14877/14878

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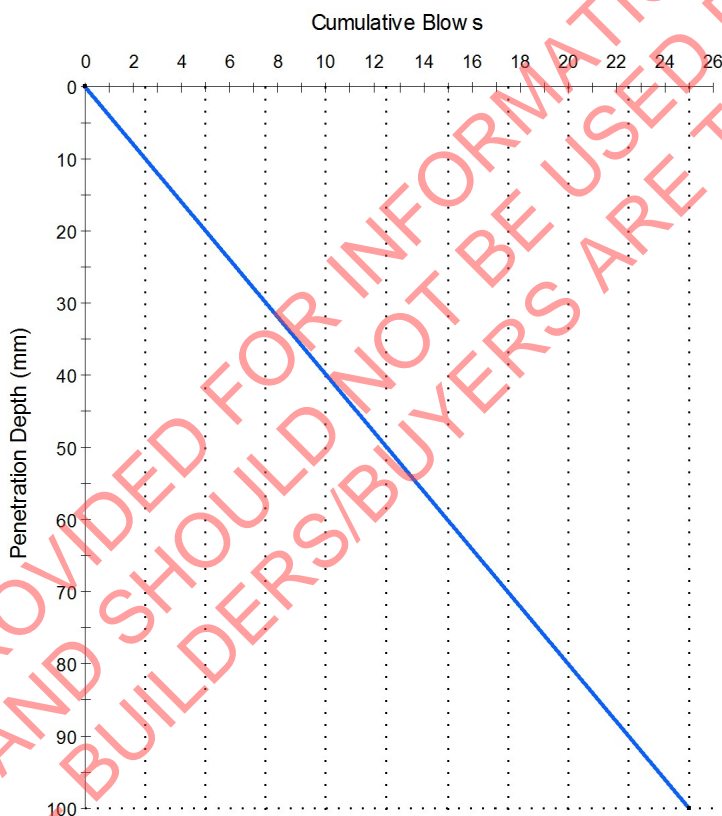
Test Details

Sample ID: WD18-1262-S11
Location: Bore Hole 11
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 11 - Lot 14877/14878

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S12

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 12 - Lot 14878

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Test Details

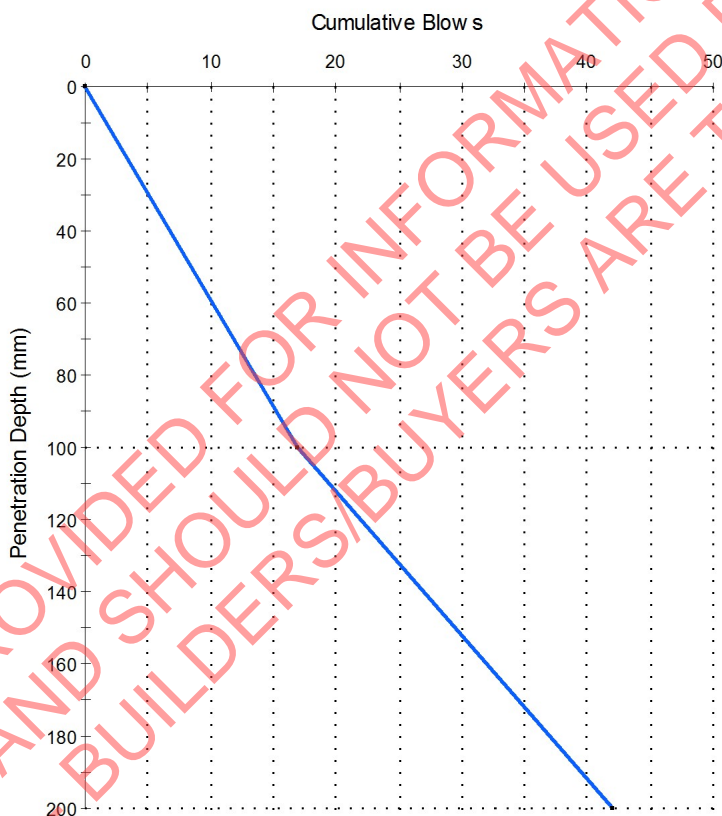
Sample ID: WD18-1262-S12
Location: Bore Hole 12
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	17
2	200	42


Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 12 - Lot 14878

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	17	17	100	
2	25	42	200	

Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S13

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 13 - Lot 14879

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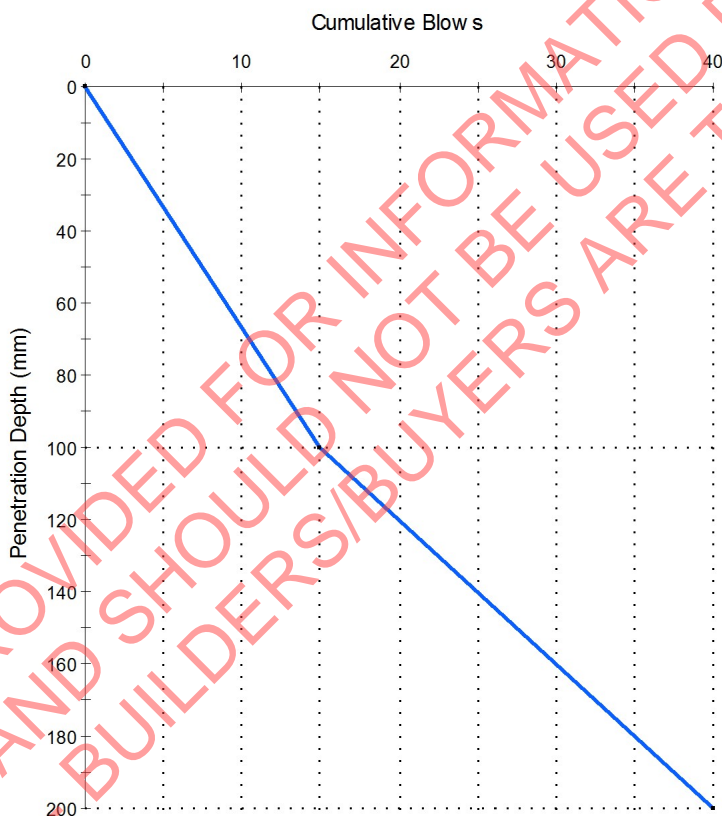
Test Details

Sample ID: WD18-1262-S13
Location: Bore Hole 13
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	15
2	200	40


Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 13 - Lot 14879

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	15	15	100	
2	25	40	200	

Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S14

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 14 - Lot 14879/14880

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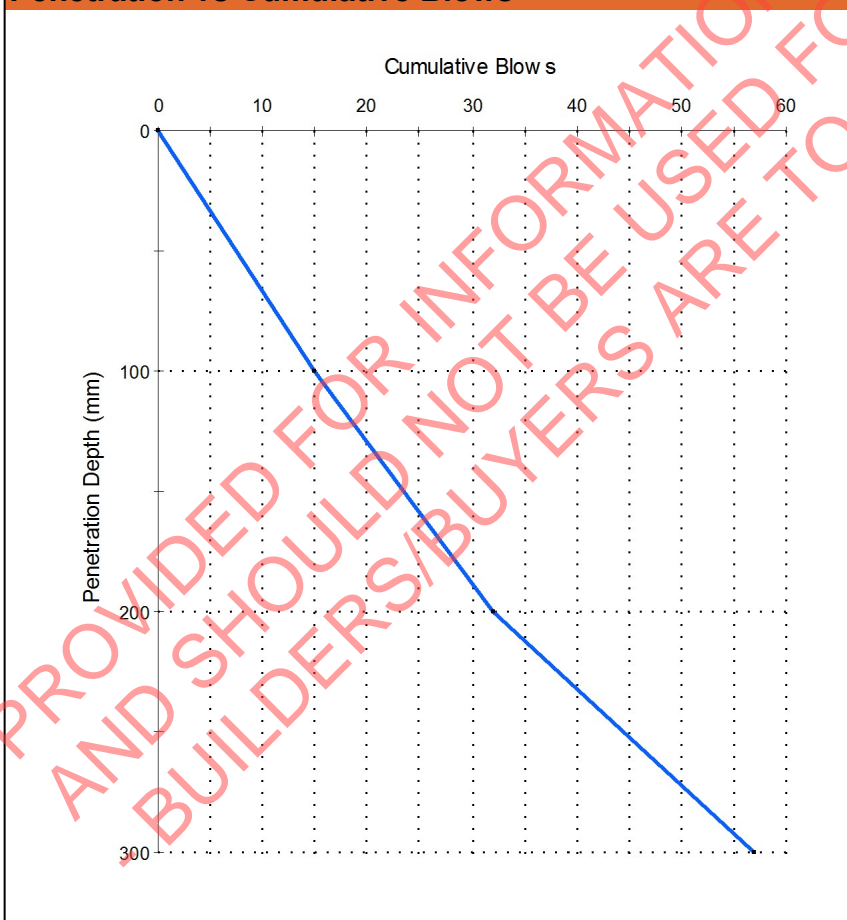
Test Details

Sample ID: WD18-1262-S14
Location: Bore Hole 14
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	15
2	200	32
3	300	57


Comments

Note: Refusal reached @ 330mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 14 - Lot 14879/14880

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	15	15	100	
2	17	32	200	
3	25	57	300	150

Comments

Note: Refusal reached @ 330mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S15

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 15 - Lot 14880

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Test Details

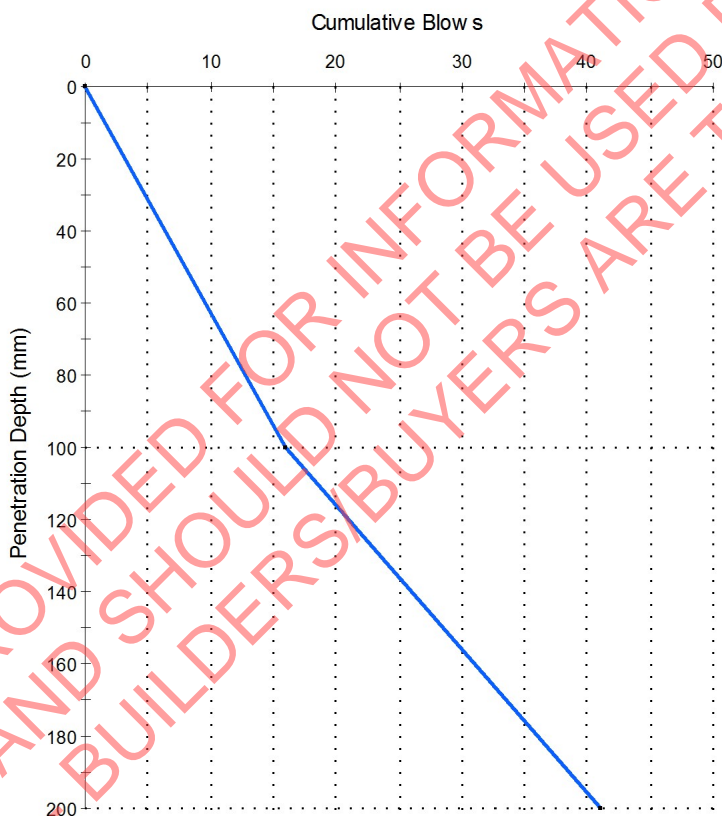
Sample ID: WD18-1262-S15
Location: Bore Hole 15
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	16
2	200	41


Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 15 - Lot 14880

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	16	16	100	
2	25	41	200	

Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S16

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 16 - Lot 14881

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Test Details

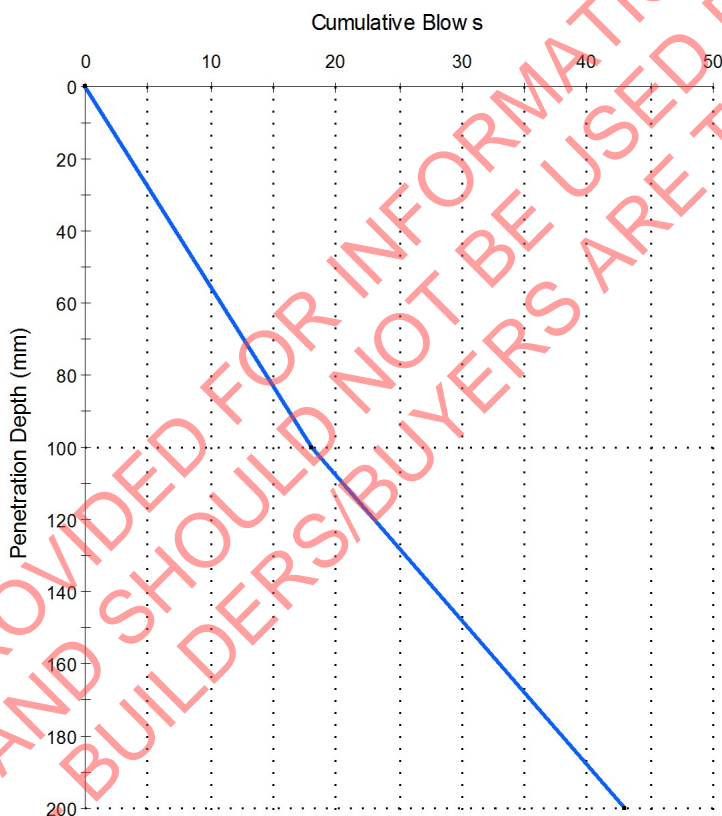
Sample ID: WD18-1262-S16
Location: Bore Hole 16
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	18
2	200	43


Comments

Note: Refusal reached @ 260mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 16 - Lot 14881

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	18	18	100	
2	25	43	200	

Comments

Note: Refusal reached @ 260mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S17

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 17 - Lot 14881/14882

Accredited for compliance with ISO/IEC 17025 - Testing.



Approved Signatory: Matthew Dunkley
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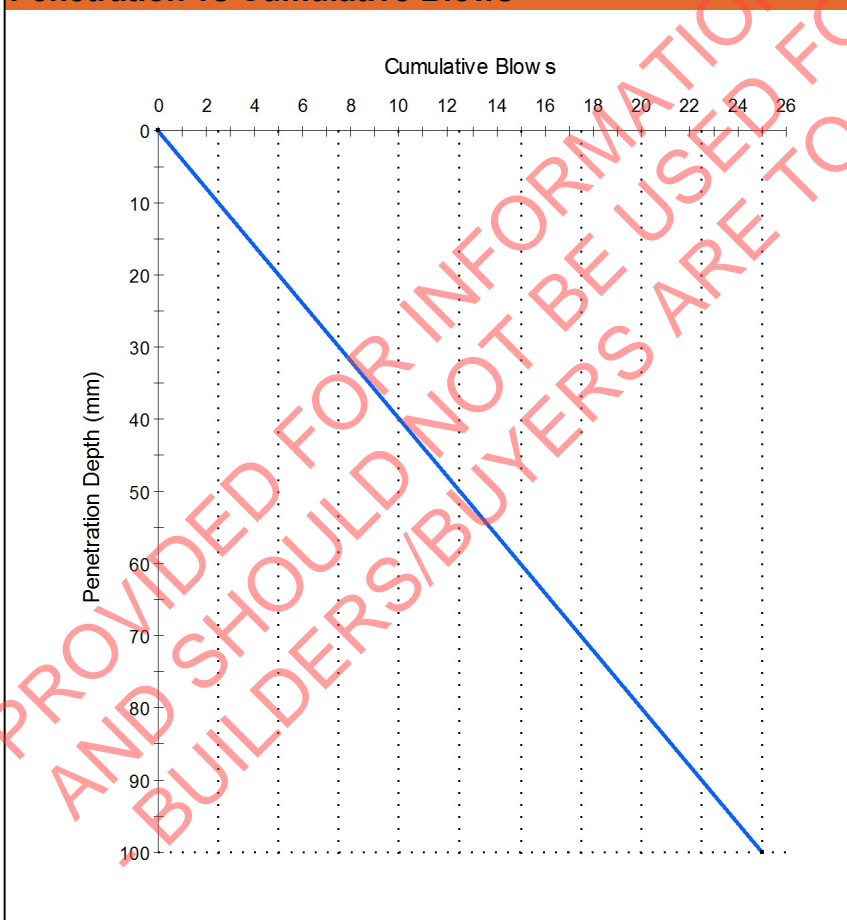
Test Details

Sample ID: WD18-1262-S17 **Location:** Bore Hole 17
Tested By: Glen Cawdrey **Date Tested:** 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0 **Soil Description:** Silty Sandy GRAVEL
Moisture Condition of Soil: Dry **Reduced Level of Ground Surface (m):**

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 170mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 17 - Lot 14881/14882

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 170mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S18

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 18 - Lot 14882

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Test Details

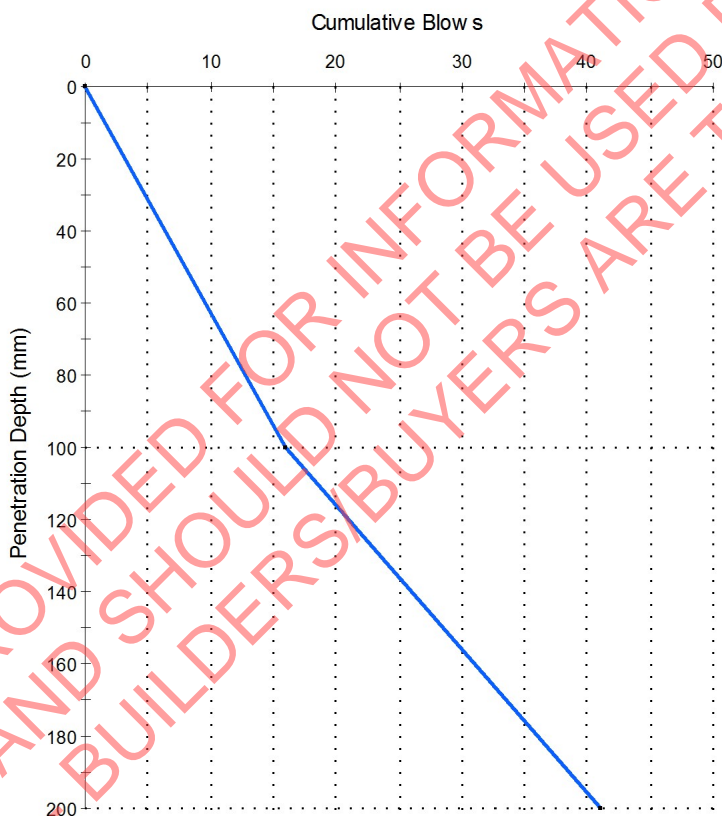
Sample ID: WD18-1262-S18 **Location:** Bore Hole 18
Tested By: Glen Cawdrey **Date Tested:** 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0 **Soil Description:** Silty Sandy GRAVEL
Moisture Condition of Soil: Dry **Reduced Level of Ground Surface (m):**

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	16
2	200	41


Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 18 - Lot 14882

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	16	16	100	
2	25	41	200	

Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S19

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 19 - Lot 14883

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Test Details

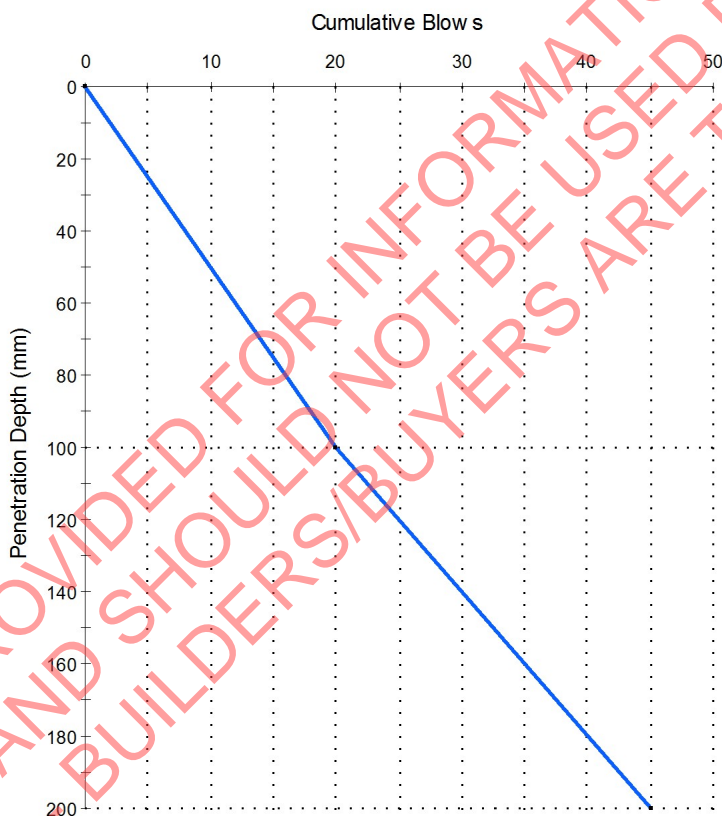
Sample ID: WD18-1262-S19
Location: Bore Hole 19
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	20
2	200	45


Comments

Note: Refusal reached @ 230mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 19 - Lot 14883

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	20	20	100	
2	25	45	200	

Comments

Note: Refusal reached @ 230mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S20

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 20 - Lot 14883/14884

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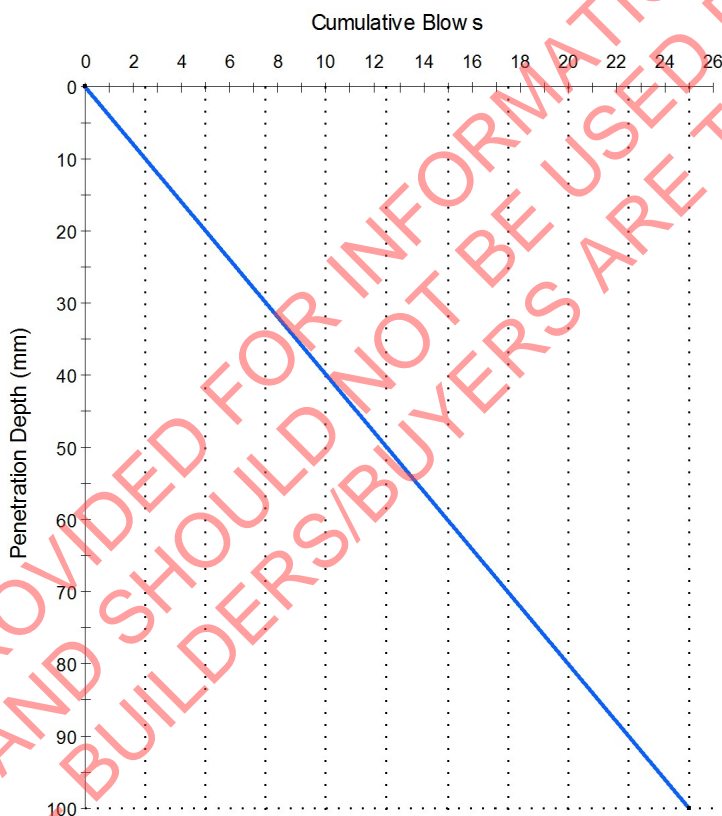
Sample ID: WD18-1262-S20
Location: Bore Hole 20
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 20 - Lot 14883/14884



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S21

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 21 - Lot 14884

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Test Details

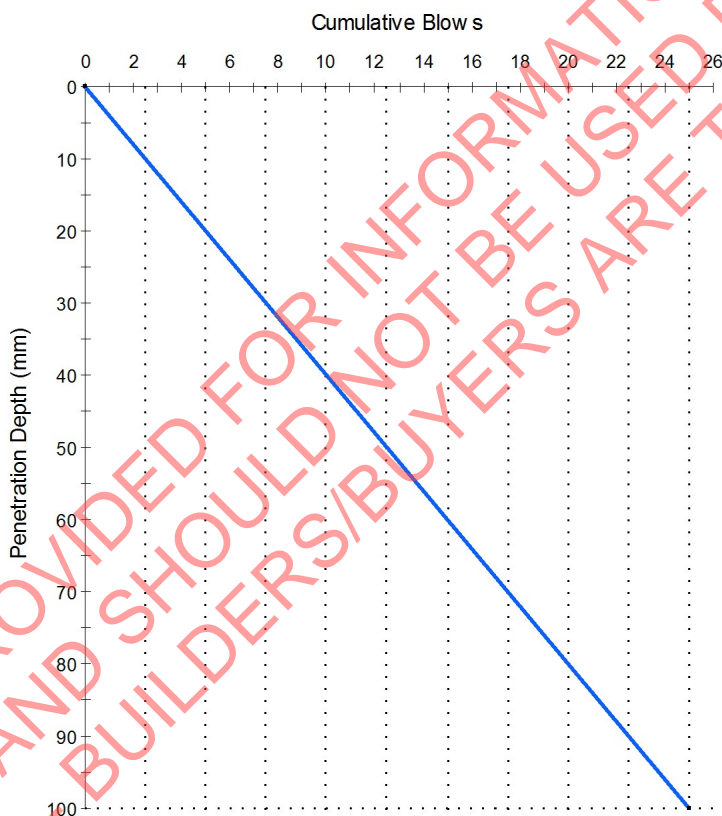
Sample ID: WD18-1262-S21
Location: Bore Hole 21
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S21


Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 21 - Lot 14884



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S22

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 22 - Lot 14885

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Test Details

Sample ID: WD18-1262-S22
Location: Bore Hole 22
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 22 - Lot 14885

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S23

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 23 - Lot 14885/14886

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Test Details

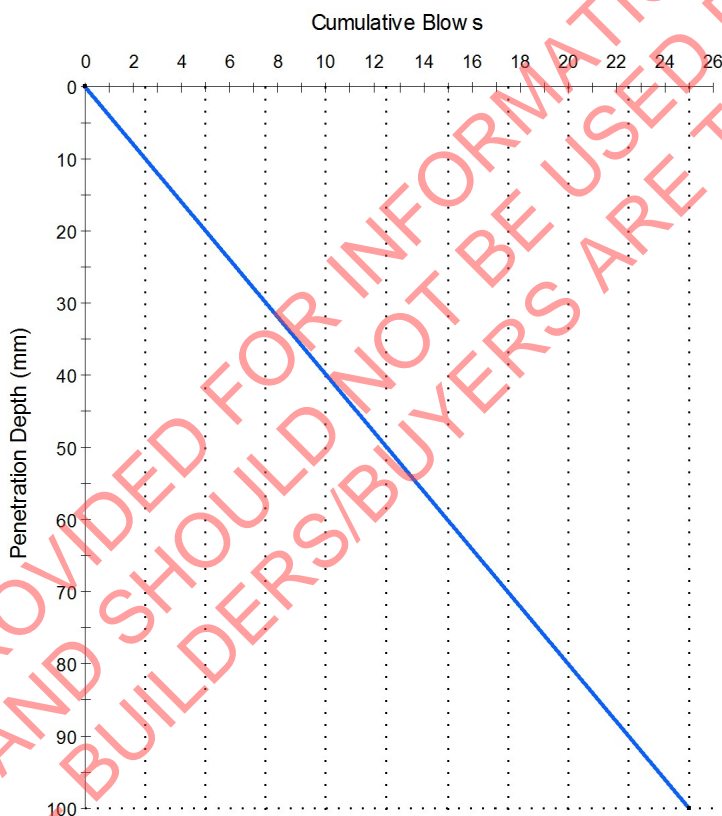
Sample ID: WD18-1262-S23
Location: Bore Hole 23
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 23 - Lot 14885/14886

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S24

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 24 - Lot 14886

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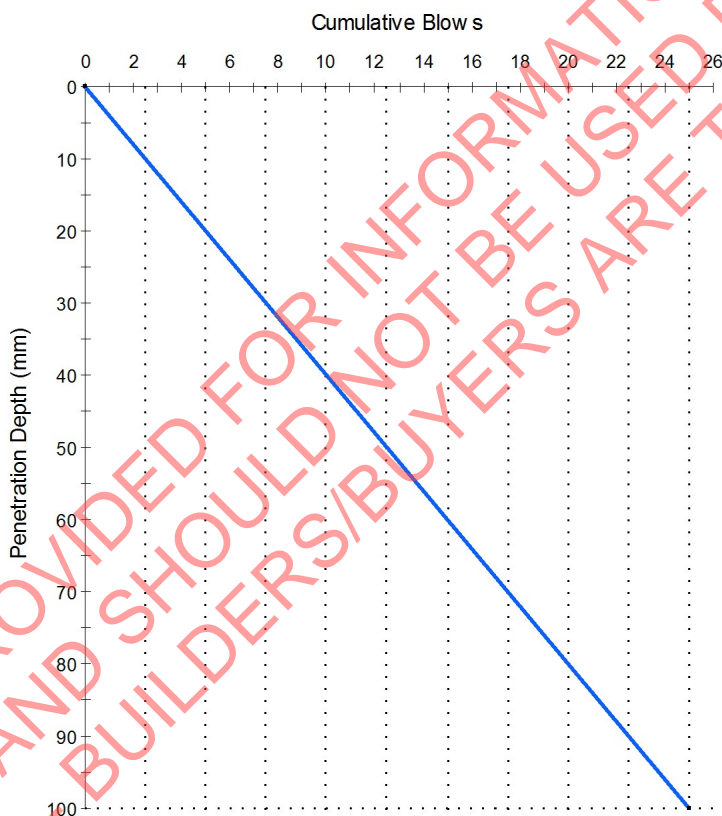
Test Details

Sample ID: WD18-1262-S24
Location: Bore Hole 24
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S24

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 24 - Lot 14886



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S25

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 25 - Lot 14887

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Test Details

Sample ID: WD18-1262-S25
Location: Bore Hole 25
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	21
2	200	46


Comments

Note: Refusal reached @ 270mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 25 - Lot 14887

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	21	21	100	
2	25	46	200	

Comments

Note: Refusal reached @ 270mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S26

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 26 - Lot 14887/14888

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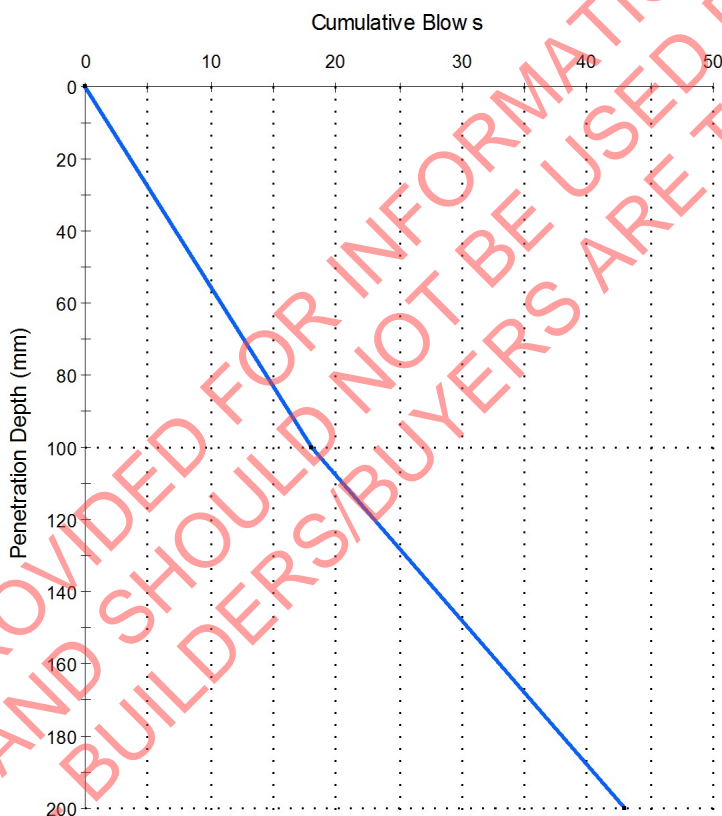
Test Details

Sample ID: WD18-1262-S26
Location: Bore Hole 26
Tested By: Glen Cawdrey
Date Tested: 22/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	18
2	200	43

Comments

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 26 - Lot 14887/14888

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	18	18	100	
2	25	43	200	

Comments


Report No: PR:WD18-1262-S27

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 27 - Lot 14854

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Test Details

Sample ID: WD18-1262-S27
Location: Bore Hole 27
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 27 - Lot 14854



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S28

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 28 - Lot 14854/14855

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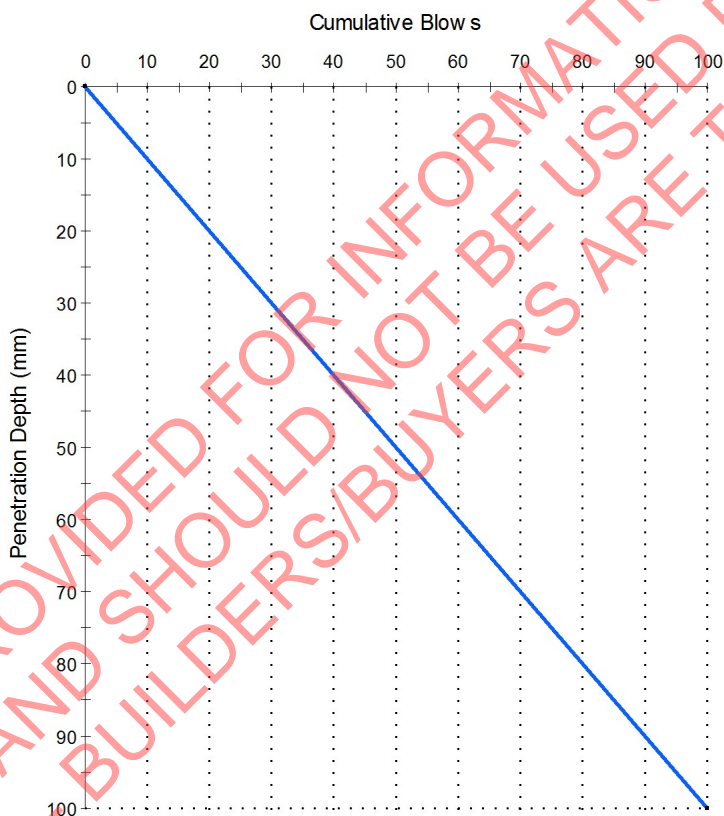
Test Details

Sample ID: WD18-1262-S28
Location: Bore Hole 28
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	100

Comments


Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S28


Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 28 - Lot 14854/14855



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	100	100	100	

Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S29

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 29 - Lot 14855

Accredited for compliance with ISO/IEC 17025 - Testing.

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Test Details

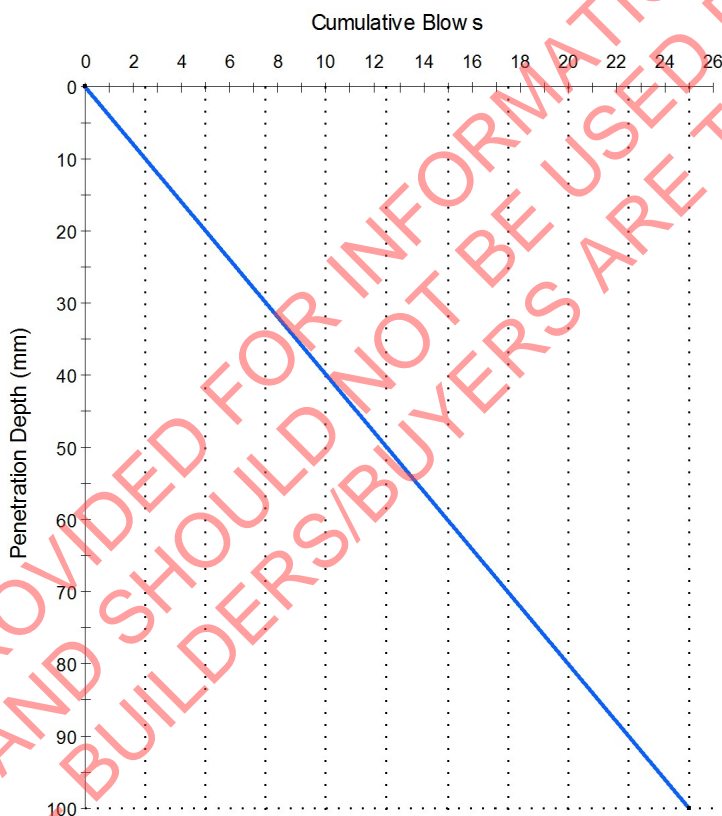
Sample ID: WD18-1262-S29
Location: Bore Hole 29
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 29 - Lot 14855



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S30

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 30 - Lot 14856

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Test Details

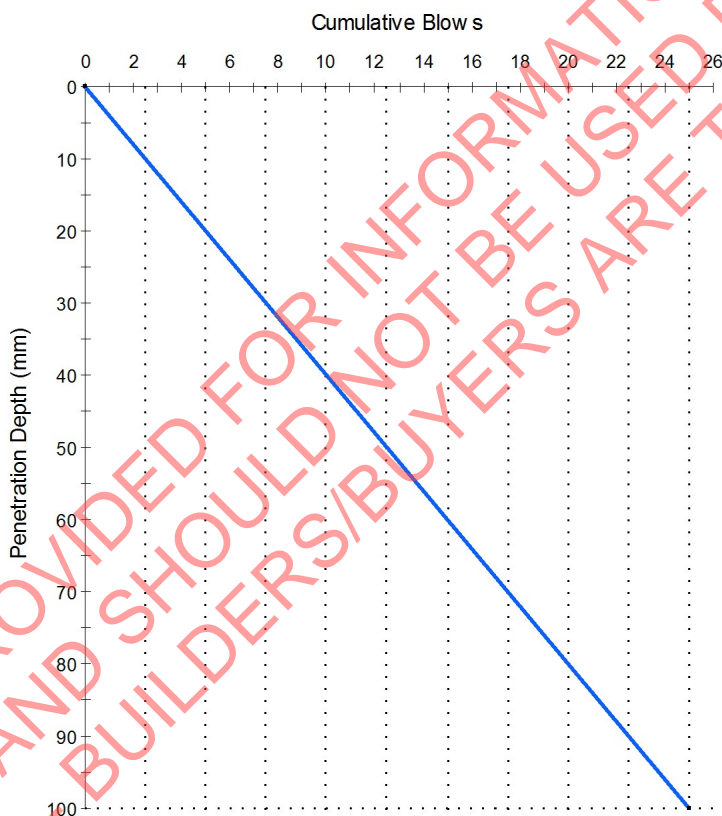
Sample ID: WD18-1262-S30
Location: Bore Hole 30
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 30 - Lot 14856



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S31

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 31 - Lot 14856/14857

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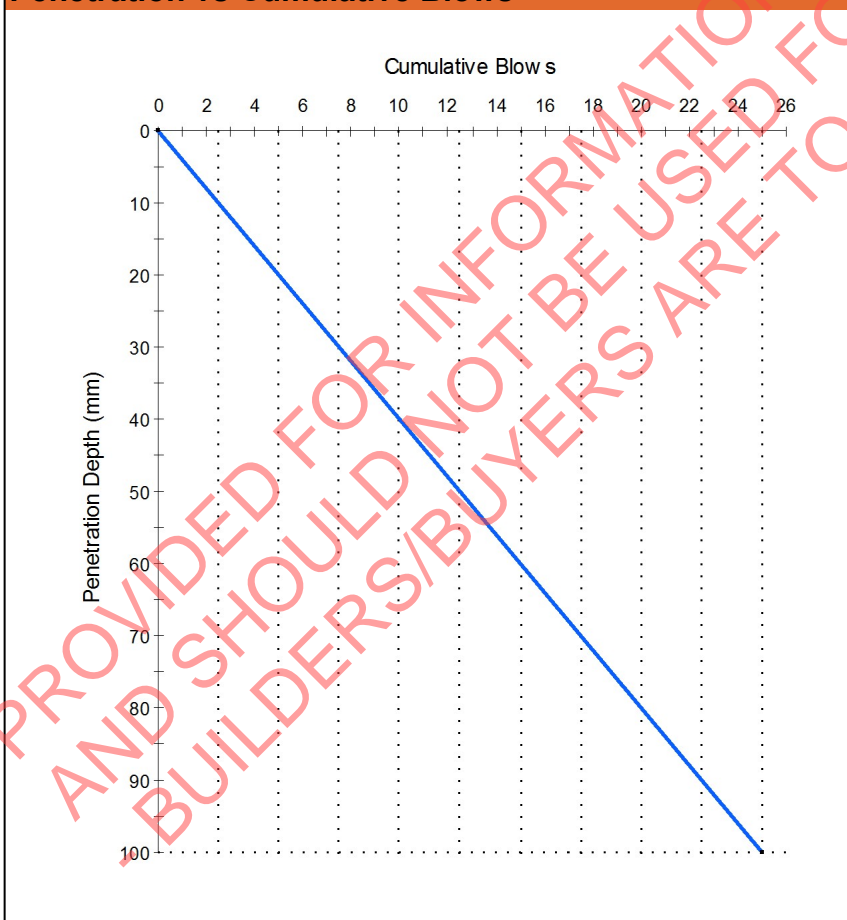
Test Details

Sample ID: WD18-1262-S31 **Location:** Bore Hole 31
Tested By: Glen Cawdrey **Date Tested:** 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0 **Soil Description:** Silty Sandy GRAVEL
Moisture Condition of Soil: Dry **Reduced Level of Ground Surface (m):**

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 31 - Lot 14856/14857

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S32

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 32 - Lot 14857

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Test Details

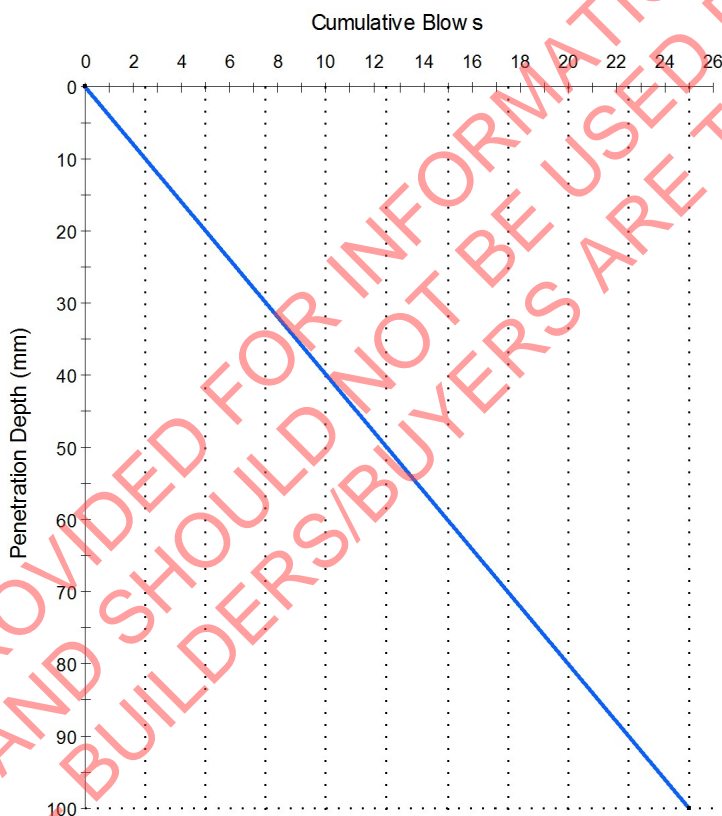
Sample ID: WD18-1262-S32
Location: Bore Hole 32
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 32 - Lot 14857

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S33

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 33 - Lot 14858

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Test Details

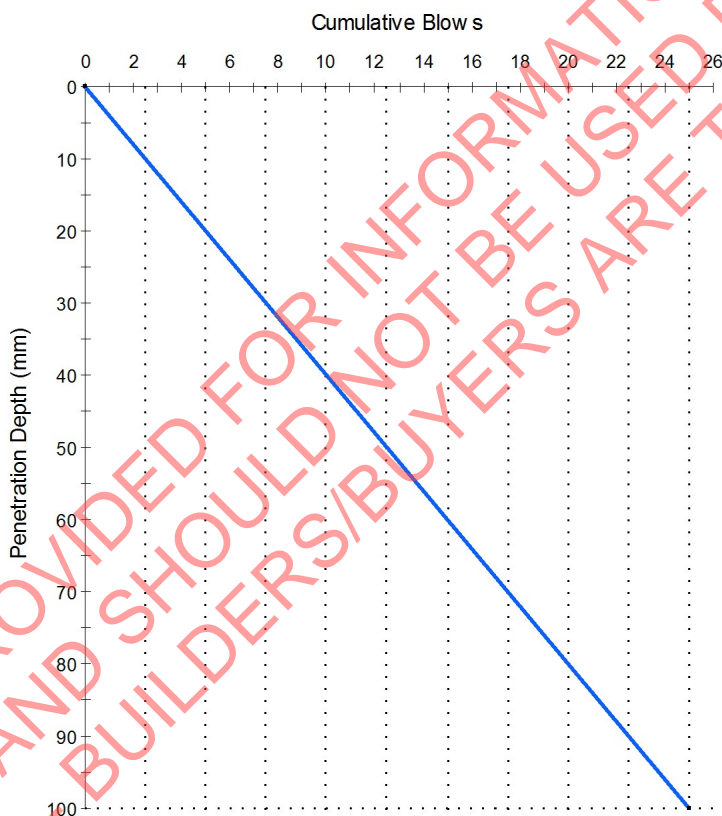
Sample ID: WD18-1262-S33
Location: Bore Hole 33
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 33 - Lot 14858

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S34

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 34 - Lot 14858/14859

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Test Details

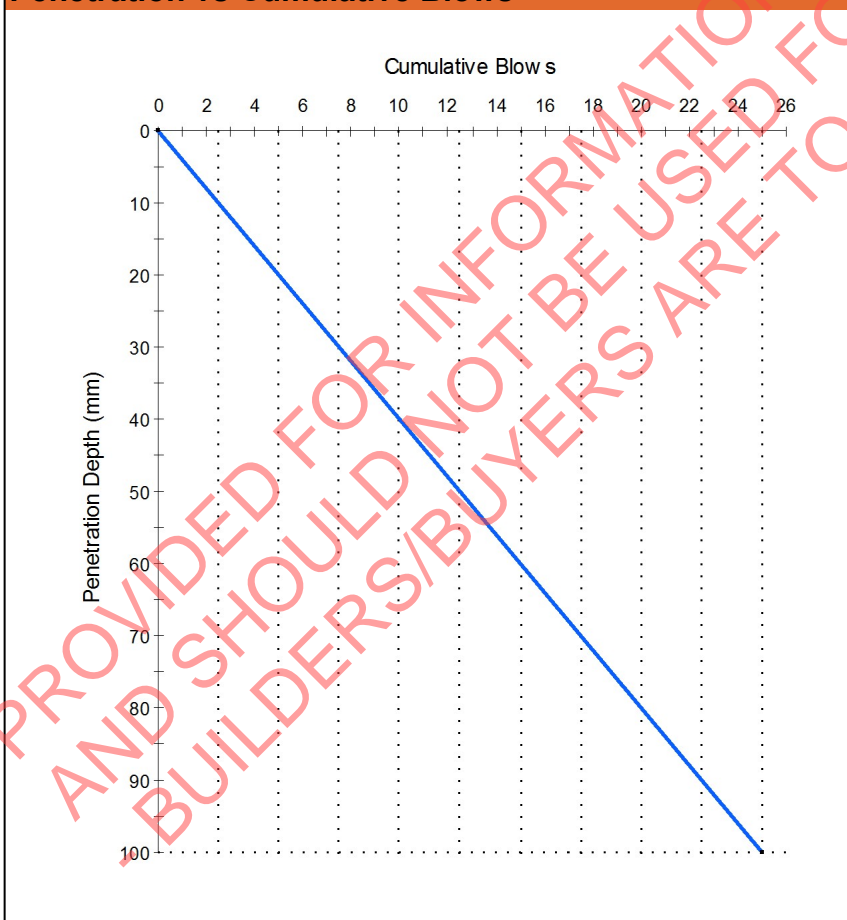
Sample ID: WD18-1262-S34 **Location:** Bore Hole 34
Tested By: Glen Cawdrey **Date Tested:** 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0 **Soil Description:** Silty Sandy GRAVEL
Moisture Condition of Soil: Dry **Reduced Level of Ground Surface (m):**

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 34 - Lot 14858/14859

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S35

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 35 - Lot 14859

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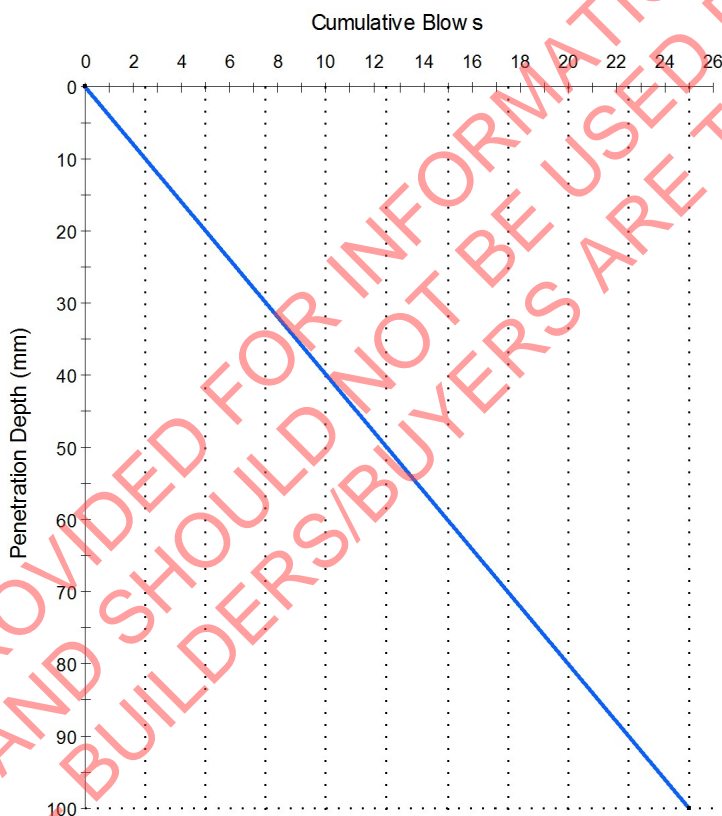
Test Details

Sample ID: WD18-1262-S35
Location: Bore Hole 35
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 180mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 35 - Lot 14859

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 180mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S36

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 36 - Lot 14860

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Test Details

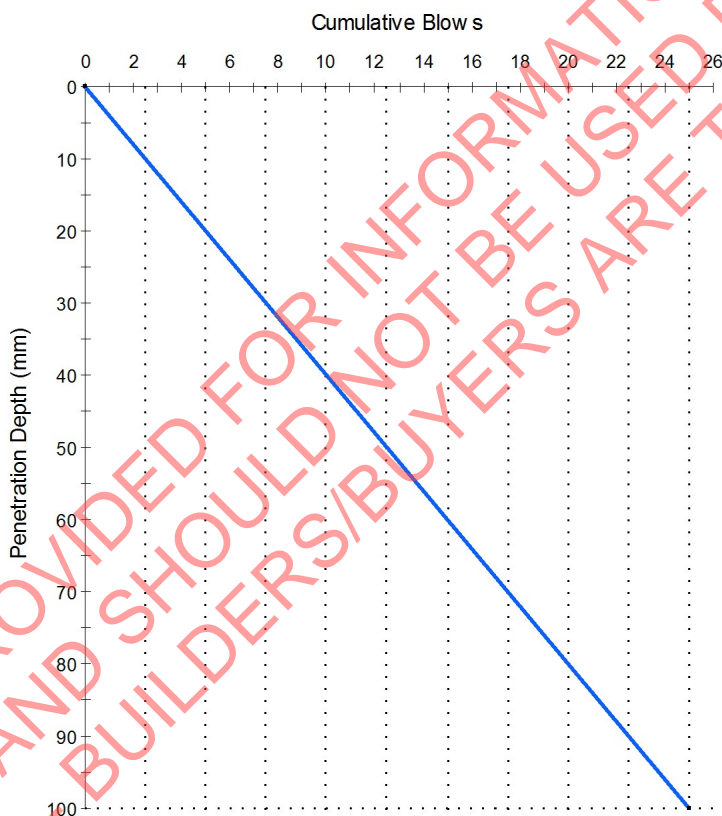
Sample ID: WD18-1262-S36
Location: Bore Hole 36
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 170mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 36 - Lot 14860

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 170mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S37

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 37 - Lot 14860/14861

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Test Details

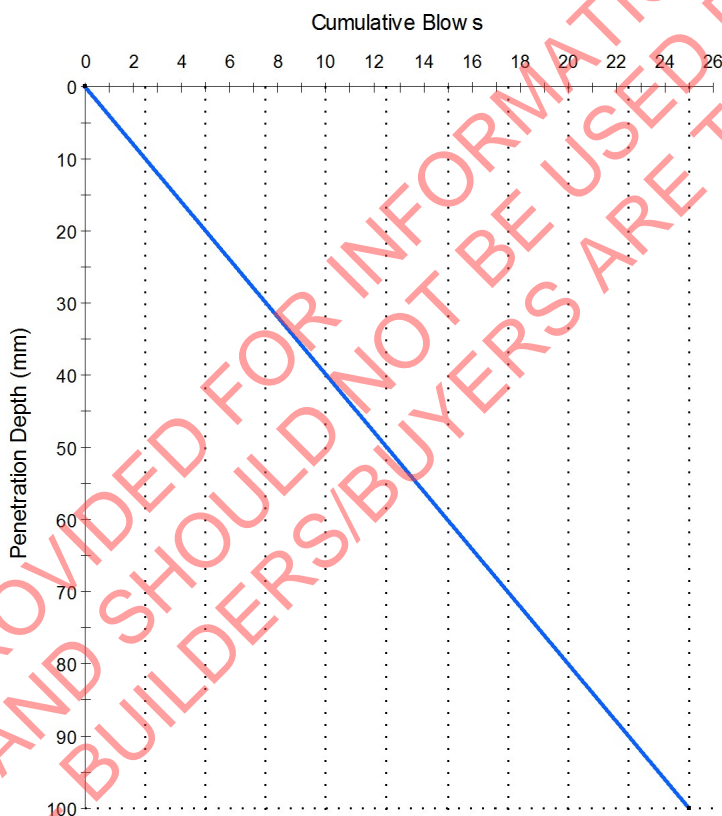
Sample ID: WD18-1262-S37
Location: Bore Hole 37
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 37 - Lot 14860/14861



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S38

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 38 - Lot 14861

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Test Details

Sample ID: WD18-1262-S38
Location: Bore Hole 38
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 38 - Lot 14861

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S39

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 39 - Lot 14862

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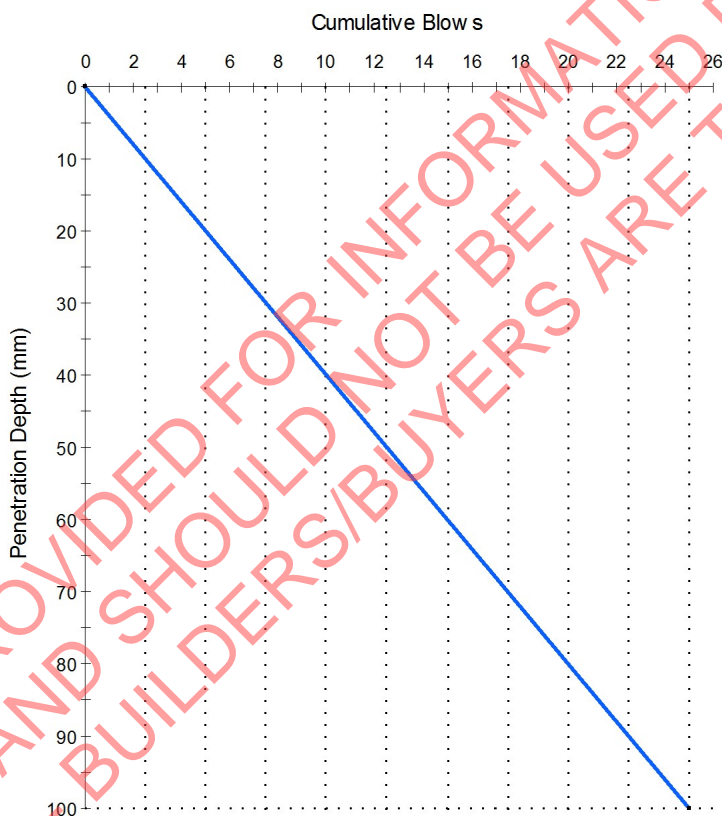
Test Details

Sample ID: WD18-1262-S39
Location: Bore Hole 39
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 180mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 39 - Lot 14862

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 180mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S40

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 40 - Lot 14862/14863

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Test Details

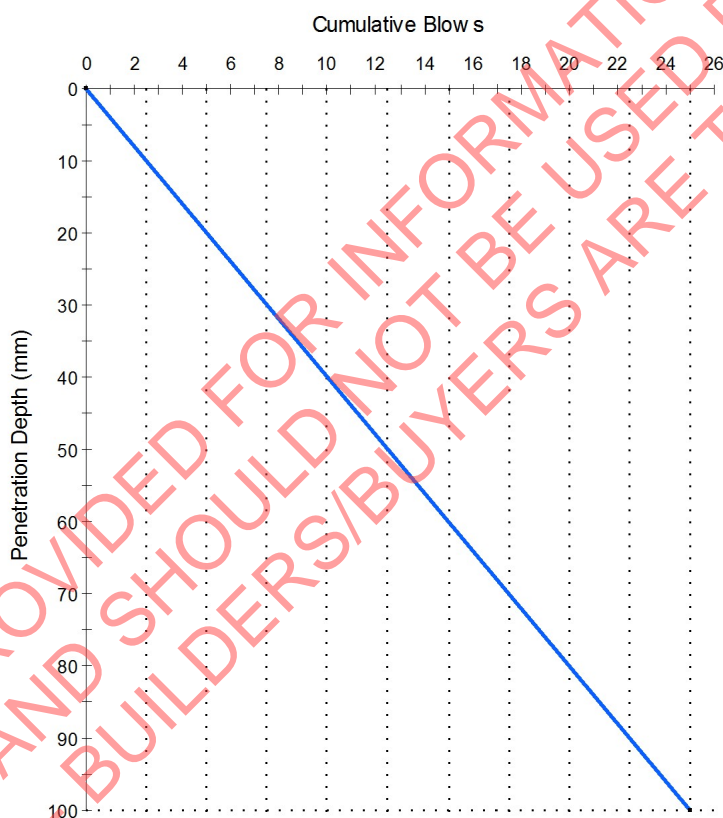
Sample ID: WD18-1262-S40
Location: Bore Hole 40
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 170mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 40 - Lot 14862/14863



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 170mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S41

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 41 - Lot 14863

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Test Details

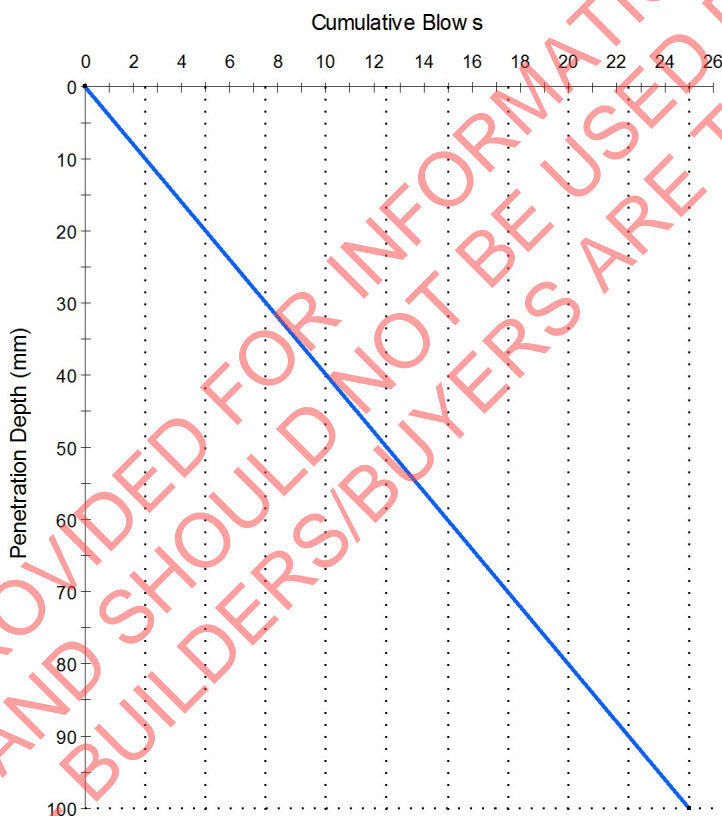
Sample ID: WD18-1262-S41
Location: Bore Hole 41
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 41 - Lot 14863

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S42

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 42 - Lot 14863/14853

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Test Details

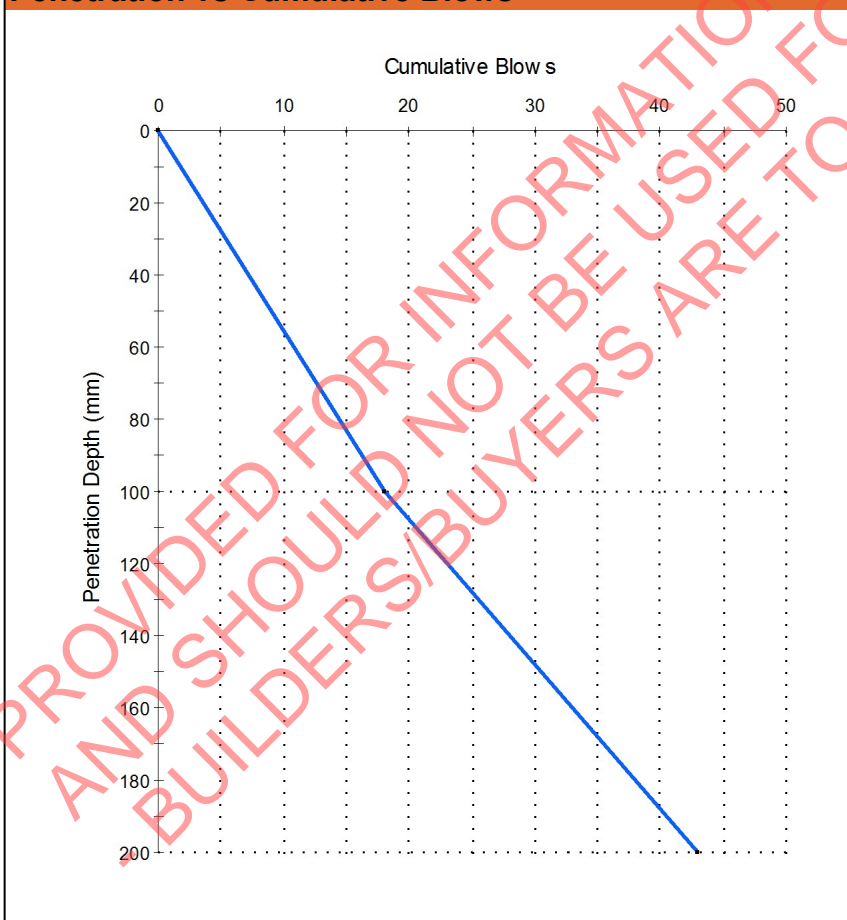
Sample ID: WD18-1262-S42 **Location:** Bore Hole 42
Tested By: Glen Cawdrey **Date Tested:** 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0 **Soil Description:** Silty Sandy GRAVEL
Moisture Condition of Soil: Dry **Reduced Level of Ground Surface (m):**

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	18
2	200	43


Comments

Note: Refusal reached @ 230mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 42 - Lot 14863/14853

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	18	18	100	
2	25	43	200	

Comments

Note: Refusal reached @ 230mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S43

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 43 - Lot 14853

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Test Details

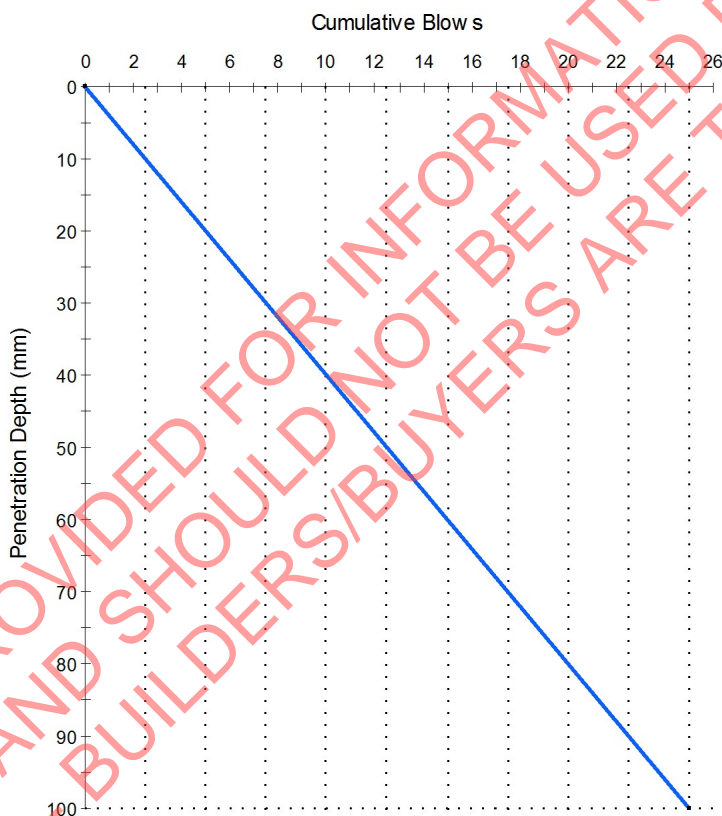
Sample ID: WD18-1262-S43
Location: Bore Hole 43
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 43 - Lot 14853

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S44

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 44 - Lot 14844

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Test Details

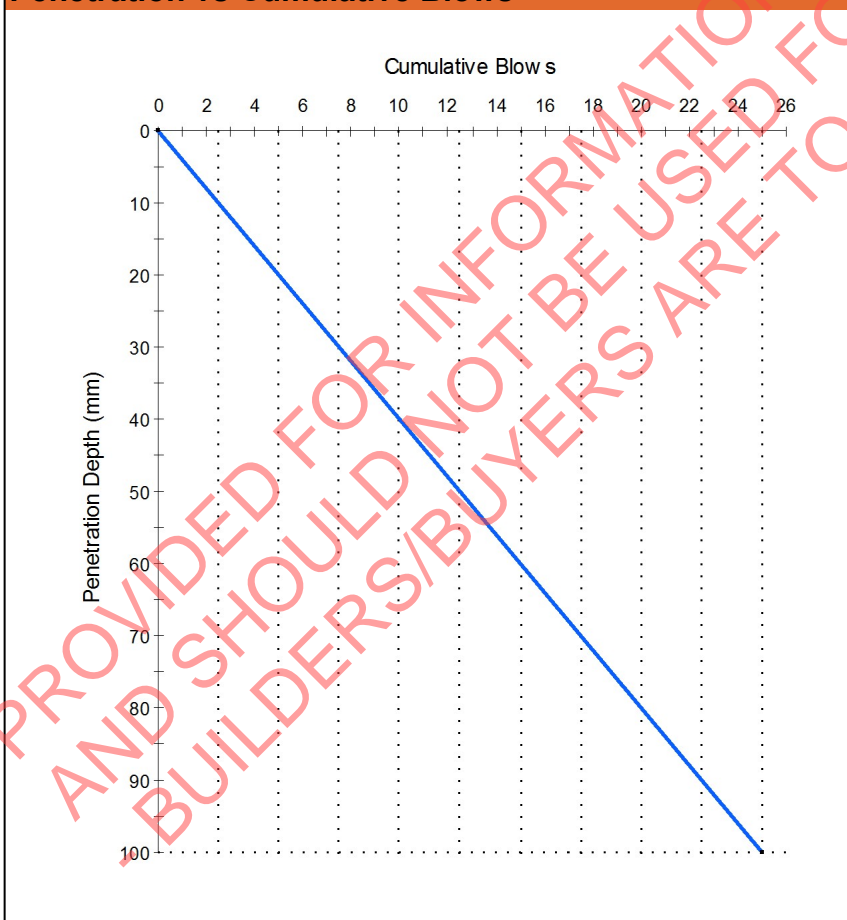
Sample ID: WD18-1262-S44 **Location:** Bore Hole 44
Tested By: Glen Cawdrey **Date Tested:** 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance (AS 1289.6.3.2)

Depth at the Commencement (mm): 0 **Soil Description:** Silty Sandy GRAVEL
Moisture Condition of Soil: Dry **Reduced Level of Ground Surface (m):**

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 170mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 44 - Lot 14844

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 170mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S45

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 45 - Lot 14844

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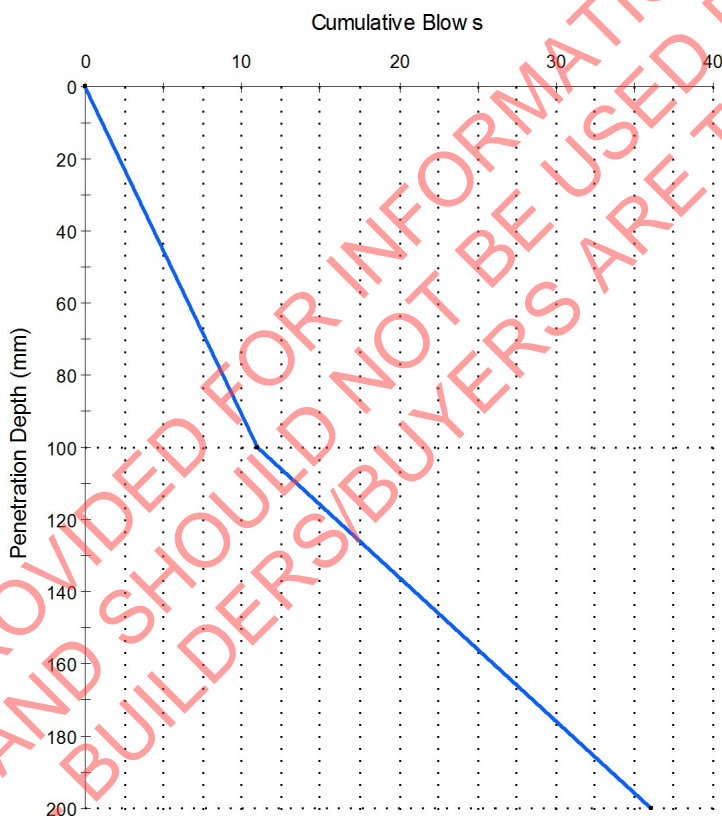
Test Details

Sample ID: WD18-1262-S45
Location: Bore Hole 45
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	11
2	200	36


Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 45 - Lot 14844

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	11	11	100	
2	25	36	200	

Comments

Note: Refusal reached @ 250mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S46

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 46 - Lot 14845

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Test Details

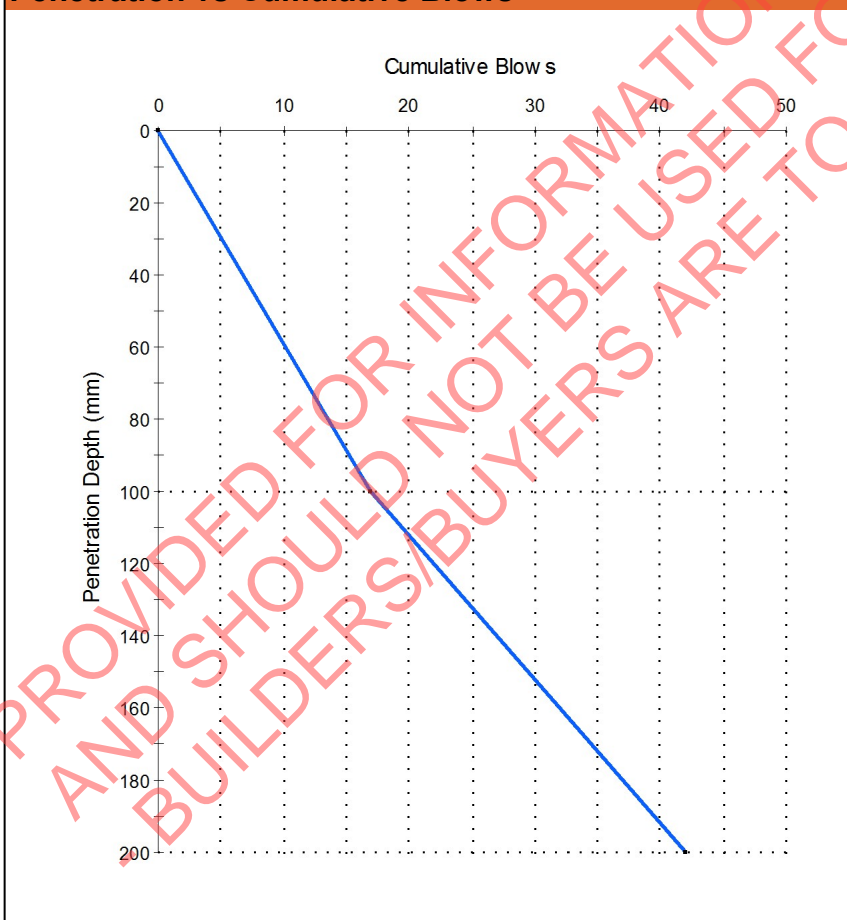
Sample ID: WD18-1262-S46 **Location:** Bore Hole 46
Tested By: Glen Cawdrey **Date Tested:** 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0 **Soil Description:** Silty Sandy GRAVEL
Moisture Condition of Soil: Dry **Reduced Level of Ground Surface (m):**

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	17
2	200	42


Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 46 - Lot 14845

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	17	17	100	
2	25	42	200	

Comments

Note: Refusal reached @ 240mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S47

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 47 - Lot 14845/14846

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Test Details

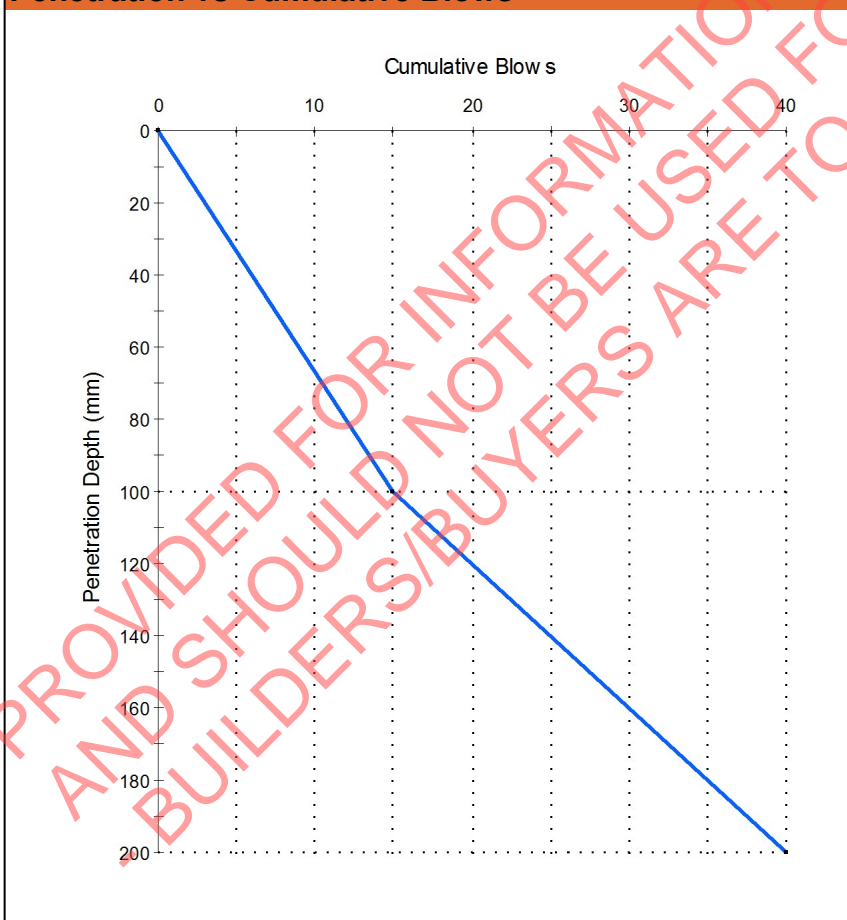
Sample ID: WD18-1262-S47 **Location:** Bore Hole 47
Tested By: Glen Cawdrey **Date Tested:** 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0 **Soil Description:** Silty Sandy GRAVEL
Moisture Condition of Soil: Dry **Reduced Level of Ground Surface (m):**

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	15
2	200	40


Comments

Note: Refusal reached @ 230mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 47 - Lot 14845/14846

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	15	15	100	
2	25	40	200	

Comments

Note: Refusal reached @ 230mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S48

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 48 - Lot 14846

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Test Details

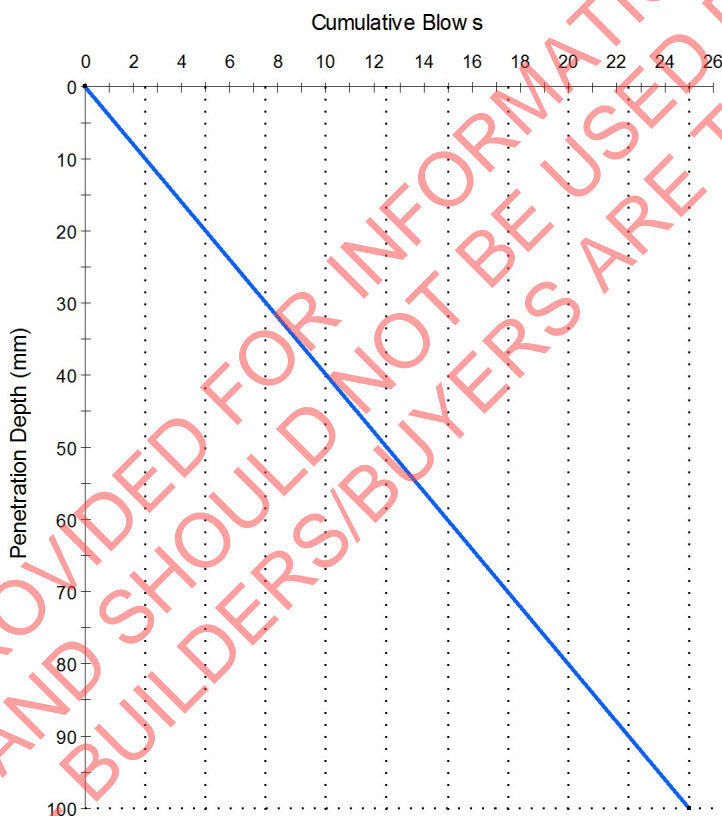
Sample ID: WD18-1262-S48
Location: Bore Hole 48
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 48 - Lot 14846

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S49

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 49 - Lot 14847

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Test Details

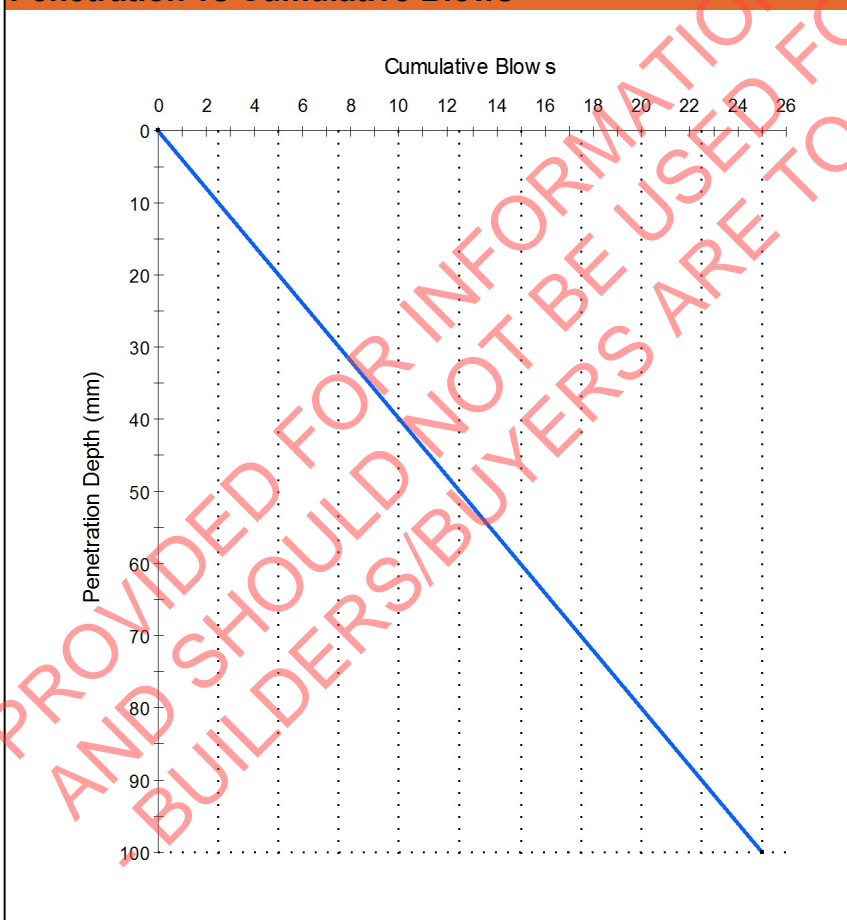
Sample ID: WD18-1262-S49 **Location:** Bore Hole 49
Tested By: Glen Cawdrey **Date Tested:** 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0 **Soil Description:** Silty Sandy GRAVEL
Moisture Condition of Soil: Dry **Reduced Level of Ground Surface (m):**

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 49 - Lot 14847

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S50

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 50 - Lot 14847/14848

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Test Details

Sample ID: WD18-1262-S50
Location: Bore Hole 50
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 50 - Lot 14847/14848

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S51

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 51 - Lot 14848

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Test Details

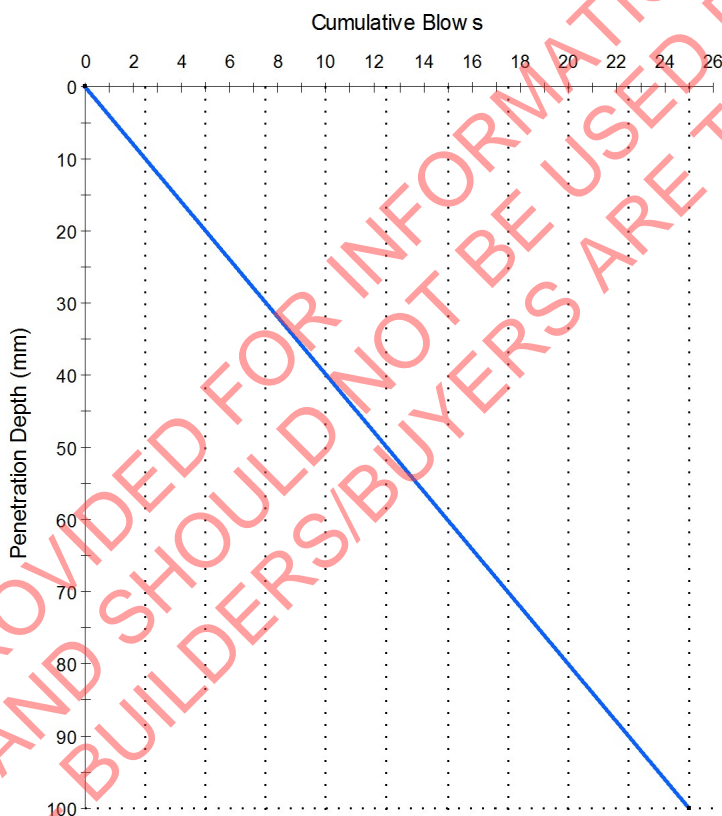
Sample ID: WD18-1262-S51
Location: Bore Hole 51
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 180mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 51 - Lot 14848

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 180mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S52

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 52 - Lot 14849

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Test Details

Sample ID: WD18-1262-S52
Location: Bore Hole 52
Tested By: Glen Cawdrey
Date Tested: 23/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 52 - Lot 14849

Accredited for compliance with ISO/IEC 17025 - Testing.



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S53

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 53 - Lot 14849/14850

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Test Details

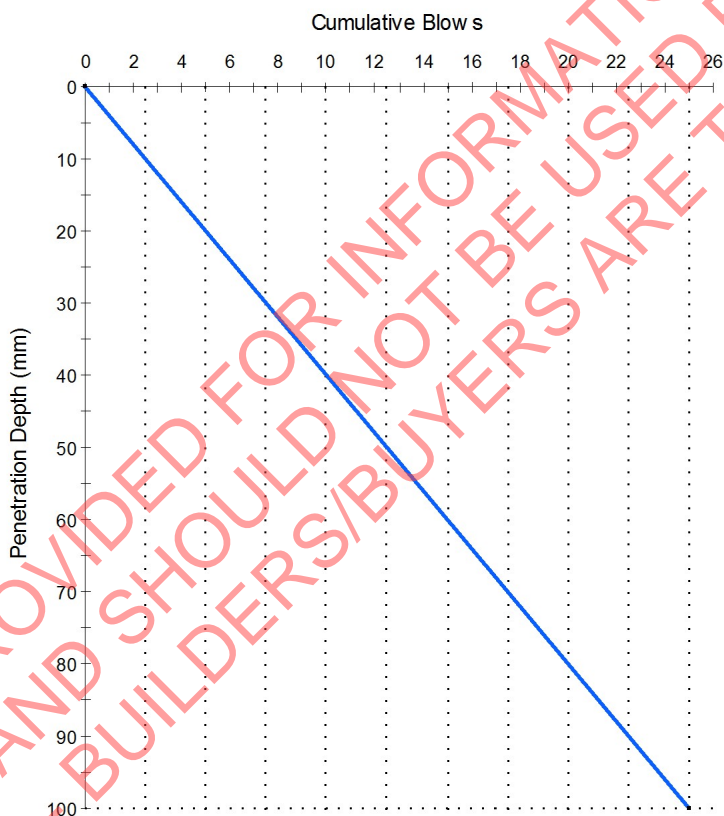
Sample ID: WD18-1262-S53
Location: Bore Hole 53
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 53 - Lot 14849/14850

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S54

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole54 - Lot 14850



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Approved Signatory: Matthew Dunkley
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Date of issue: 11/09/2018

Test Details

Sample ID: WD18-1262-S54
Location: Bore Hole54
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole54 - Lot 14850

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S55

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 55 - Lot 14851

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Test Details

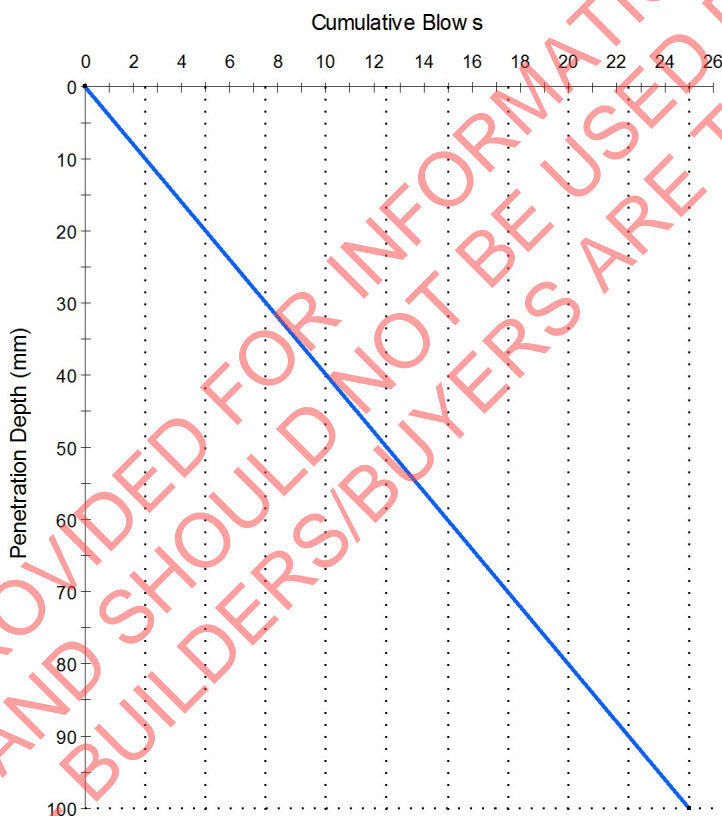
Sample ID: WD18-1262-S55
Location: Bore Hole 55
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 55 - Lot 14851

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S56

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 56 - Lot 14851/14852

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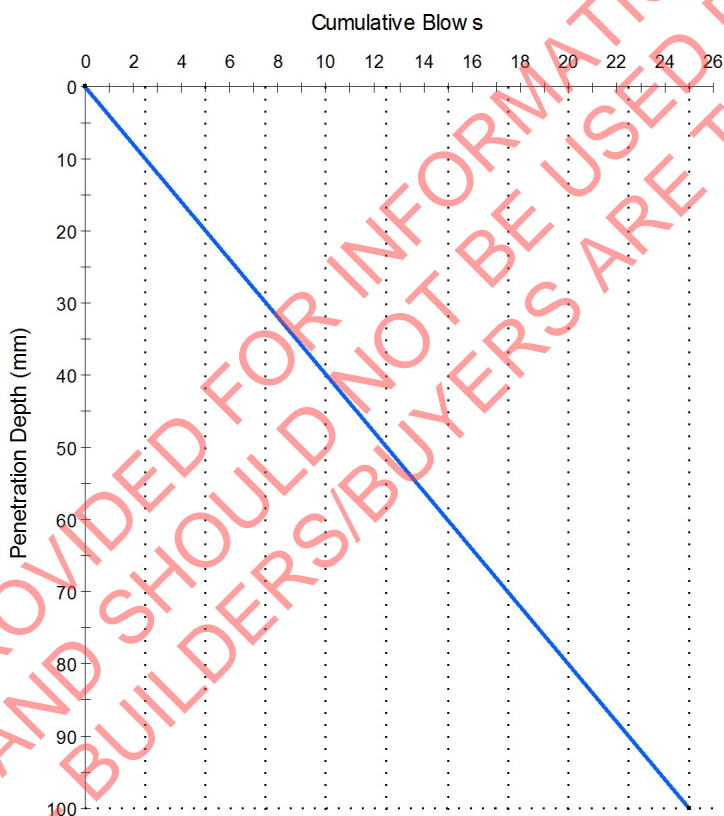
Test Details

Sample ID: WD18-1262-S56
Location: Bore Hole 56
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 56 - Lot 14851/14852

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S57

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 57 - Lot 14852



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Date of issue: 11/09/2018

Test Details

Sample ID: WD18-1262-S57
Location: Bore Hole 57
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 57 - Lot 14852

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S58

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 58 - Lot 14864

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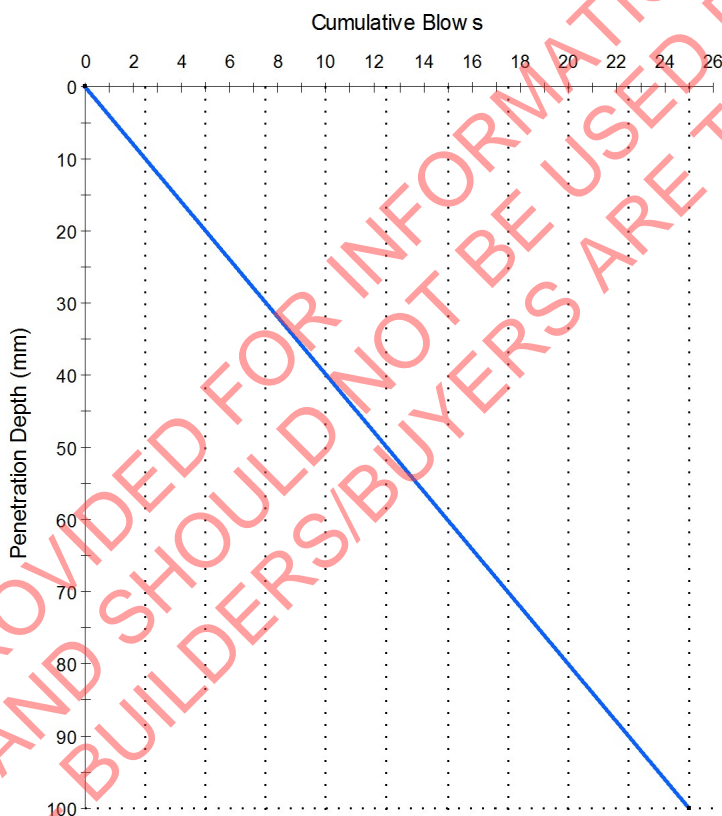
Test Details

Sample ID: WD18-1262-S58
Location: Bore Hole 58
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 58 - Lot 14864

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S59

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 59 - Lot 14864/14865

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Test Details

Sample ID: WD18-1262-S59 **Location:** Bore Hole 59
Tested By: Glen Cawdrey **Date Tested:** 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0 **Soil Description:** Silty Sandy GRAVEL
Moisture Condition of Soil: Dry **Reduced Level of Ground Surface (m):**

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	
1	100	25


Comments

Note: Refusal reached @ 100mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 59 - Lot 14864/14865

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0			0	
1	25	25	100	

Comments

Note: Refusal reached @ 100mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S60

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 60 - Lot 14865



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Test Details

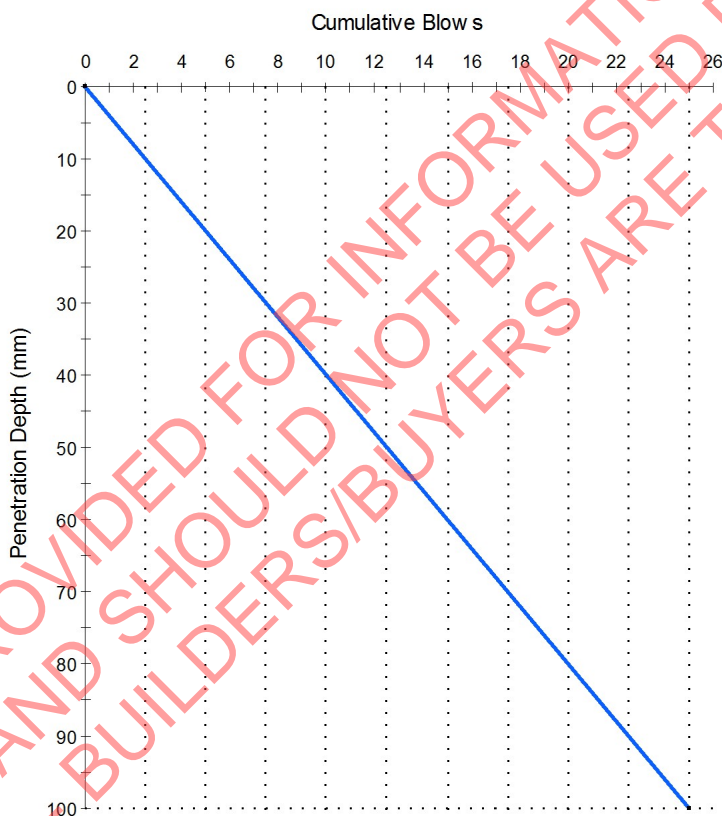
Sample ID: WD18-1262-S60
Location: Bore Hole 60
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 60 - Lot 14865

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S61

Issue No: 1

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 61 - Lot 14866



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Approved Signatory: Matthew Dunkley
(Darwin Laboratory Branch Leader)

Date of issue: 11/09/2018

Test Details

Sample ID: WD18-1262-S61
Location: Bore Hole 61
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 61 - Lot 14866

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S62

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 62 - Lot 14866/14867

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Test Details

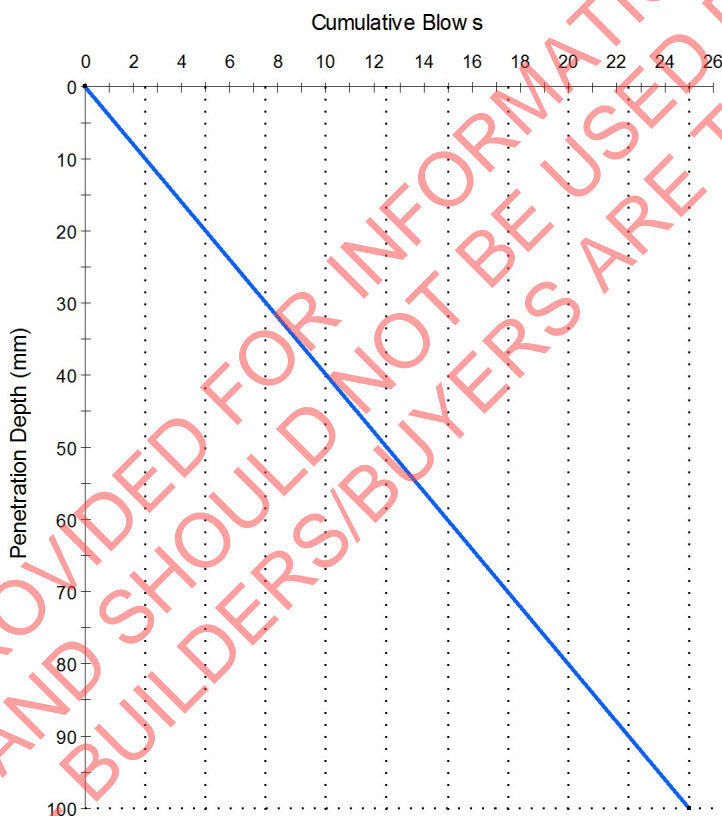
Sample ID: WD18-1262-S62
Location: Bore Hole 62
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 62 - Lot 14866/14867



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S63

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 63 - Lot 14867



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Approved Signatory: Matthew Dunkley
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Date of issue: 11/09/2018

Test Details

Sample ID: WD18-1262-S63
Location: Bore Hole 63
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 63 - Lot 14867



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S64

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 64 - Lot 14868



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Date of issue: 11/09/2018

Test Details

Sample ID: WD18-1262-S64
Location: Bore Hole 64
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 170mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 64 - Lot 14868

Accredited for compliance with ISO/IEC 17025 - Testing.



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Approved Signatory: Matthew Dunkley
 (Darwin Laboratory Branch Leader)

Date of issue: 11/09/2018

Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 170mm, as per AS1289.6.3.2 - Note 2


Report No: PR:WD18-1262-S65

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 65 - Lot 14868/14869

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Approved Signatory: Matthew Dunkley
 (Darwin Laboratory Branch Leader)
 Date of issue: 11/09/2018

Test Details

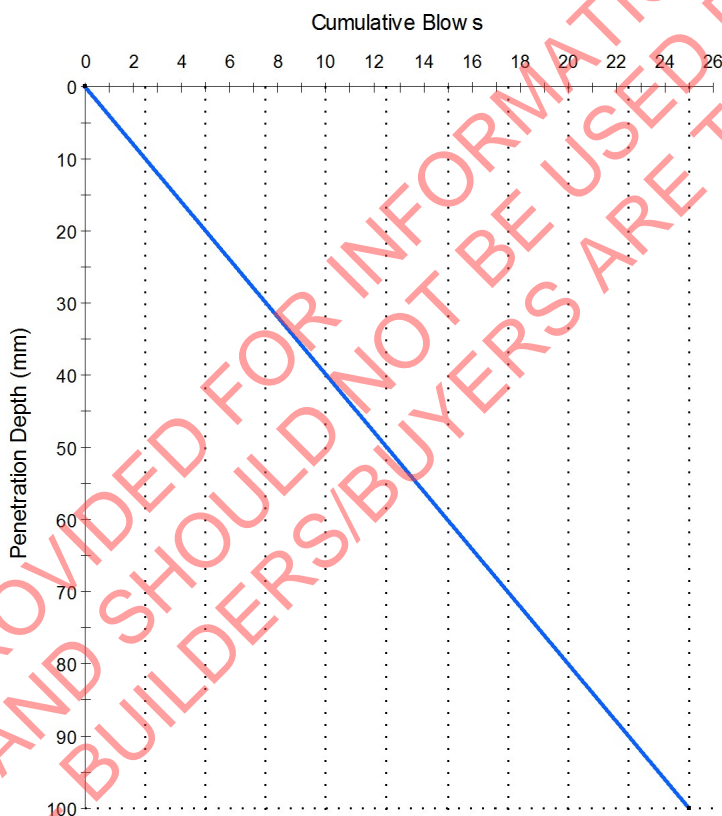
Sample ID: WD18-1262-S65
Location: Bore Hole 65
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostojic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 65 - Lot 14868/14869



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Approved Signatory: Matthew Dunkley
 (Darwin Laboratory Branch Leader)

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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 150mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S66

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 66 - Lot 14869

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Approved Signatory: Matthew Dunkley
(Darwin Laboratory Branch Leader)

13121 Date of issue: 11/09/2018
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Test Details

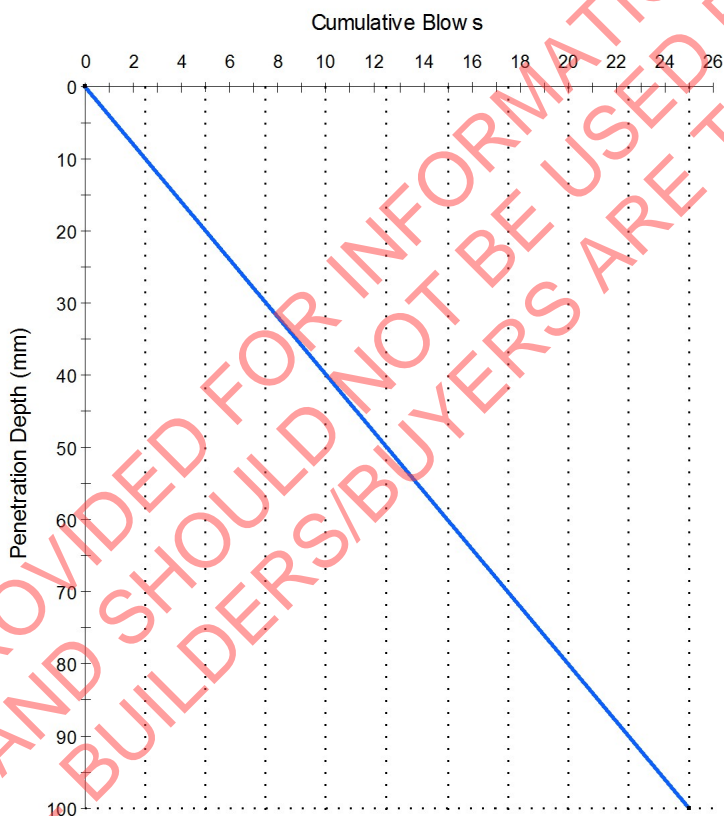
Sample ID: WD18-1262-S66
Location: Bore Hole 66
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows



Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25


Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 66 - Lot 14869

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Date of issue: 11/09/2018

Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 160mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S67

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 67 - Lot 14869/14870

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Test Details

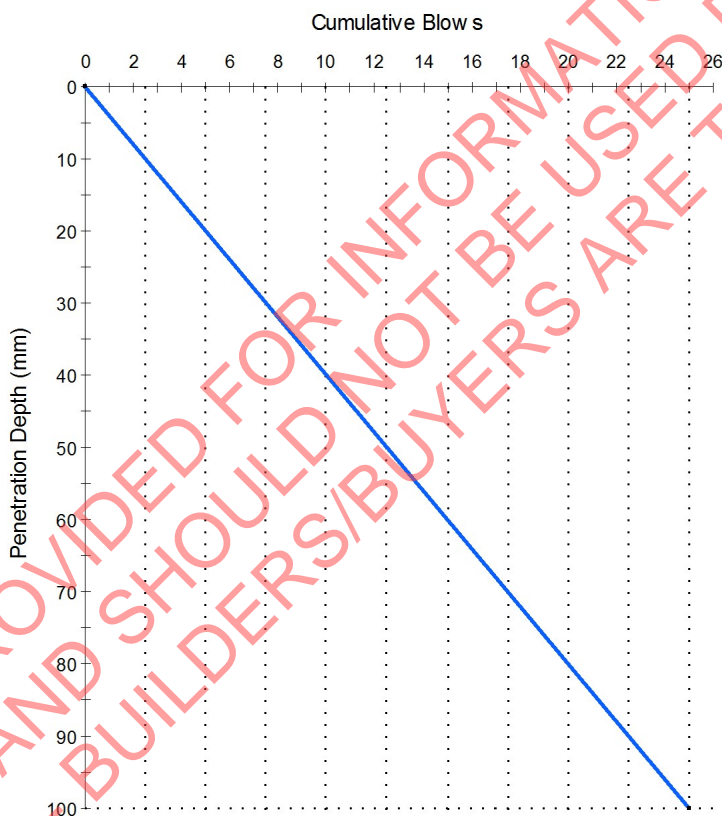
Sample ID: WD18-1262-S67
Location: Bore Hole 67
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]

Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	25

Comments


Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 67 - Lot 14869/14870



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	25	25	100	

Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Report No: PR:WD18-1262-S68

Issue No: 1

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 68 - Lot 14870

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Approved Signatory: Matthew Dunkley
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Date of issue: 11/09/2018
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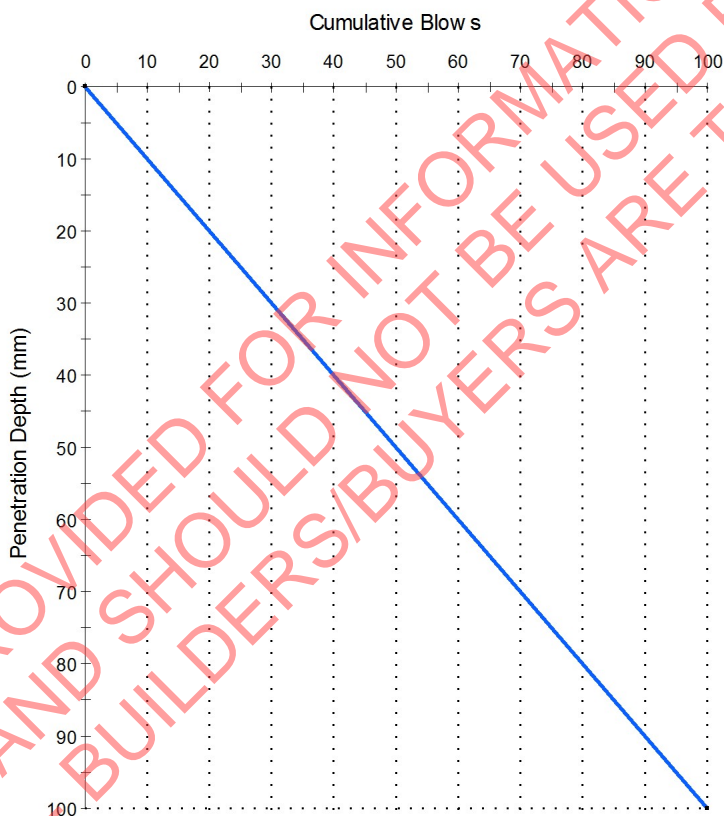
Test Details

Sample ID: WD18-1262-S68
Location: Bore Hole 68
Tested By: Glen Cawdrey
Date Tested: 24/08/2018
Material: Insitu

Test Results

Determination of the Penetration Resistance [AS 1289.6.3.2]
Depth at the Commencement (mm): 0
Soil Description: Silty Sandy GRAVEL
Moisture Condition of Soil: Dry
Reduced Level of Ground Surface (m):

Penetration vs Cumulative Blows




Reading No.	Penetration Depth (mm)	Cumul. Blows
0	0	0
1	100	100

Comments


Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2

Penetration Resistance

Client: Ostoic Group Pty Ltd
Contractor:
Project: Zuccoli Stage 3A - Site Classifications
Lot No.: -
Location: Bore Hole 68 - Lot 14870



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Penetration Resistance Test Results

Reading	Blows	Cumul. Blows	Depth (mm)	Mid-point Depth
0	0	0	0	
1	100	100	100	

Comments

Note: Refusal reached @ 140mm, as per AS1289.6.3.2 - Note 2