

WANT Geotechnics

Site Classification & Bearing Capacity Assessment

For

Stage 6A, Zuccoli, Northern Territory

Prepared for HiQA

Project NTG20201680 Rev A

11 November 2020

PROVIDED FOR INFORMATION PURPOSES
ONLY AND SHOULD NOT BE RELIED UPON
FOR CONSTRUCTION. BUILDERS ARE TO
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Project: NTG20201680		
Date	Revision	Comments
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11 November 2020	A	Final

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Date: 11 November 2020

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Site Classification & Bearing Capacity Assessment for 47 Lots in Stage 6A, 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 47 Lots developed as Stage 6A, 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:

- A total of 72 boreholes or test pits, typically 1.5 to 2 excavations 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 A. This data has been relied upon by WANT Geotechnics Pty Ltd in their assessment of all 47 the lots in the Zuccoli Stage 6A development, should it be subsequently found that for whatever reason the ground conditions differ to that indicated in the HiQA data then WANT Geotechnics Pty Ltd cannot be held responsible.

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 6A

Zuccoli Stage 6A comprises 47 individual lots, earthworks to form the lots involved filling up to 0.90m and was undertaken by Ostojic Pty Ltd, and Level 2 Supervision by HiQA Darwin.

3. Geology and Land System

The Extractive Geology of the Outer Darwin Area 1:100 000 Geological Series map indicates Stage 6A is predominantly 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 (Borehole)	Summary of Strata			Site Class	DCP Blows per 100mm	Allowable Bearing Capacity at 0.30m to 0.50m
	Granular Fill	Gravel	Weathered Rock			
15329 (BH1)	0.00-0.25m		0.25-1.50m	S	20, >25	>380kPa
15328/15329 (BH2)			0.00-1.50m	S	>25	>380kPa
15328 (BH3)	0.00-0.25m		0.25-1.50m	S	21, 12, 11, 14, 9, 15, 13, 11, 1, 1, 5, 10, 8, 7, 9	100kPa**
15327 (BH4)		0.00-0.25m	0.25-1.50m	S	22, 7, >25	>380kPa
15327/15326 (BH5)		0.00-0.25m	0.25-0.95m	S	>25	>380kPa
15326 (BH6)		0.00-0.25m	0.25-0.45m	S	20, 13, 9, >25	>380kPa
15325 (BH7)	0.00-0.30m		0.30m	S	>25	>380kPa
15325/15324 (BH8)		0.00-0.30m	0.30m	S	20, >25	>380kPa
15324 (BH9)	0.00-0.50m*		0.50-1.25m	P Equivalent to S	>25	>380kPa
15323 (BH10)	0.00-0.45m	0.45-0.75m	0.75-1.50m	P Equivalent to S	>25	>380kPa
15323/15322 (BH11)	0.00-0.50m*		0.50-1.50m	P Equivalent to S	>25	>380kPa
15322 (BH12)	0.00-0.40m	0.40-0.70m	0.70-1.50m	S	>25	>380kPa
15321 (BH13)	0.00-0.35m	0.35-0.65m*	0.65-1.50m	S	>25	>380kPa
15321/15320 (BH14)	0.00-0.50m	0.50-0.75m*	0.75-1.50m	P Equivalent to S	>25	>380kPa
15320 (BH15)	0.00-0.65m	0.65-1.00m*	1.00-1.50m	P Equivalent to S	>25	>380kPa
15319 (BH16)	0.00-0.55m	0.55-0.75m*	0.75-1.50m	P Equivalent to S	>25	>380kPa
15319/15318 (BH17)	0.00-0.75m	0.75-1.25m	1.25-1.50m	P Equivalent to S	>25	>380kPa
15318 (BH18)	0.00-0.30m	0.30-0.60m*	0.60-1.50m	S	19, >25	>380kPa
15317 (BH19)			0.00-0.30m	S	11, >25	>380kPa
15317/15316 (BH20)			0.00-0.55m	S	15, >25	>380kPa
15316 (BH21)			0.00-0.40m	S	19, >25	>380kPa

*Organics noted: review of site photographs suggests marginal content that will not adversely impact the lot

**Low DCP blow counts at 0.90-1.00m limit the allowable bearing capacity, but will not adversely affect a 300mm wide by 300mm deep footing

Table 2 – Site Classification and Allowable Bearing Capacity for Lots 15316 to 15329

Lot (Borehole)	Summary of Strata			Site Class	DCP Blows per 100mm	Allowable Bearing Capacity at 0.30m
	Granular Fill	Gravel	Weathered Rock			
15315 (BH22)			0.00-0.50m	S	15, 17, 20, 9, 8, 11, 9, 13, >25	210kPa
15315/15314 (BH23)			0.00-0.45m	S	15, >25	>380kPa
15314 (BH24)			0.00-1.00m	S	17, 13, 11, 9, 11, 10, 11, >25	230kPa
15314/15313 (BH25)		0.00-0.25m*	0.25-1.50m	S	>25	>380kPa
15313 (BH26)	0.00-0.25m		0.25-0.80m	S	17, >25	>380kPa
15312 (BH27)	0.00-0.60m		0.60-1.00m	P Equivalent to S	>25	>380kPa
15312/15311 (BH28)	0.00-0.70m		0.70-0.85m*	P Equivalent to S	17, >25	>380kPa
15311 (BH29)	0.00-0.50m		0.50-0.70m*	P Equivalent to S	>25	>380kPa
15310 (BH30)	0.00-0.50m		0.50-1.00m	P Equivalent to S	>25	>380kPa
15310/15309 (BH31)	0.00-0.40m		0.40-1.10m*	S	>25	>380kPa
15309 (BH32)	0.00-0.25m		0.25-1.20m*	S	>25	>380kPa
15308 (BH33)	0.00-0.10m		0.10-1.15m*	S	>25	>380kPa
15308/15307 (BH34)			0.00-0.45m*	S	>25	>380kPa
15307 (BH35)			0.00-0.30m*	S	>25	>380kPa
15306 (BH36)			0.00-0.50m	S	>25	>380kPa
15290 (BH37)			0.00-0.15m	S	>25	>380kPa
15290/15291 (BH38)			0.00-0.25m	S	>25	>380kPa
15291 (BH39)			0.00-0.30m	S	>25	>380kPa
15292 (BH40)			0.00-0.25m	S	>25	>380kPa
15292/15293 (BH41)			0.00-0.35m	S	24, >25	>380kPa
15293 (BH42)			0.00-0.35m	S	>25	>380kPa

*Organics noted: review of site photographs suggests marginal content that will not adversely impact the lot

Table 3 – Site Classification and Allowable Bearing Capacity for Lots 15290 to 15293 and 15306 to 15315

Lot (Borehole)	Summary of Strata			Site Class	DCP Blows per 100mm	Allowable Bearing Capacity at 0.30m
	Granular Fill	Gravel	Weathered Rock			
15294 (BH43)			0.00-0.25m	S	23, >25	>380kPa
15294/15295 (BH44)			0.00-0.70m	S	19, 14, >25	>380kPa
15295 (BH45)			0.00-0.30m	S	>25	>380kPa
15296 (BH46)			0.00-0.40m	S	14, >25	>380kPa
15296/15297 (BH47)			0.00-0.55m	S	15, >25	>380kPa
15297 (BH48)			0.00-0.50m*	S	17, 18, 20, >25	>380kPa
15298 (BH49)			0.00-0.45m	S	>25	>380kPa
15298/15299 (BH50)			0.00-0.40m	S	>25	>380kPa
15299 (BH51)			0.00-0.35m	S	22, >25	>380kPa
15300 (BH52)			0.00-0.95m	S	15, 9, 14, 19, 15, 18, 17, 18, >25	310kPa
15300/15301 (BH53)			0.00-1.40m	S	22, >25	>380kPa
15301 (BH54)			0.00-0.70m	S	>25	>380kPa
15301/15302 (BH55)	0.00-0.20m		0.20-0.95m	S	>25	>380kPa
15302 (BH56)			0.00-0.30m	S	>25	>380kPa
15305 (BH57)	0.00-0.60m		0.60-1.05m	P Equivalent to S	10, 6, >25	>380kPa
15304/15305 (BH58)	0.00-0.45m		0.45-0.90m	P Equivalent to S	18, 10, 12, 20, >25	>380kPa
15304 (BH59)	0.00-0.45m		0.45-0.60m	P Equivalent to S	21, >25	>380kPa
15285 (BH60)	0.00-0.65m		0.65-0.80m*	P Equivalent to S	>25	>380kPa
15285/15286 (BH61)	0.00-0.55m		0.55-0.70m*	P Equivalent to S	>25	>380kPa
15286 (BH62)	0.00-0.40m		0.40-0.65m*	S	>25	>380kPa
15287 (BH63)	0.00-0.25m	0.25-0.45m*	0.45-0.50m	S	>25	>380kPa

*Organics noted: review of site photographs suggests marginal content that will not adversely impact the lot

Table 4 – Site Classification and Allowable Bearing Capacity for Lots 15285 to 15287 and 15294 to 15302, 15304 and 15305

Lot (Borehole)	Summary of Strata			Site Class	DCP Blows per 100mm	Allowable Bearing Capacity at 0.30m
	Granular Fill	Gravel	Weathered Rock			
15287/15288 (BH64)	0.00-0.20m		0.20-0.75m*	S	22, >25	>380kPa
15288 (BH65)		0.00-0.40m	0.40-0.60m*	S	>25	>380kPa
15288/15289 (BH66)			0.00-0.45m	S	>25	>380kPa
15289 (BH67)	0.00-0.10m	0.10-0.20m*	0.20-0.30m	S	>25	>380kPa
15332 (BH68)	0.00-0.90m			P Equivalent to S	>25	>380kPa
15332/15331 (BH69)	0.00-0.80m			P Equivalent to S	>25	>380kPa
15331 (BH70)	0.00-0.90m			P Equivalent to S	>25	>380kPa
15331/15330 (BH71)	0.00-0.75m			P Equivalent to S	>25	>380kPa
15330 (BH72)	0.00-0.90m			P Equivalent to S	>25	>380kPa

*Organics noted: review of site photographs suggests marginal content that will not adversely impact the lot

Table 5 – Site Classification and Allowable Bearing Capacity for Lots 15330 to 15332 and 15287 to 15289

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

Footings 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 5, the data provided, the above review, and utilising Stockwell's method for the determination of bearing capacity, then all 47 Lots making up Zuccoli Stage 6A are certified as having:

- an allowable bearing capacity of at least 100kPa at likely foundation depth (assumed to be 0.30-0.50m bgl).
- 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

SCOPE OF SERVICES

This geotechnical report has been prepared in accordance with the scope of services set out in the agreement between WANT Geotechnics and their client and is subject to any qualifications and assumptions set out in the report. In some circumstances the scope of services may have been limited by a range of factors such as time, budget, access and/or site disturbance constraints.

RELIANCE ON DATA

In preparing the report, WANT Geotechnics has relied upon data, surveys, and plans provided by the client. WANT Geotechnics has not verified the accuracy or completeness of the data, to the extent that the any statements, opinions, facts, conclusions and/or recommendations in the report (conclusions) are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. WANT Geotechnics will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have not been fully disclosed to WANT Geotechnics.

GEOTECHNICAL INVESTIGATION

Geotechnical engineering reports are prepared to meet the specific scope of the client and may not necessarily be adequate for a construction contractor. This report was prepared expressly for the client and expressly for purposes indicated by the client or his representative. Use by any other persons for any purpose, or by the client for a different purpose, is not recommended. The client should not use this report for other than its intended purpose without seeking additional geotechnical advice.

LIMITATIONS OF SITE INVESTIGATION

In making an assessment of a structure from a single exploratory location there is the possibility that variations may occur that were not encountered. Site exploration identifies specific subsurface conditions only at those points from which samples have been taken. The risk that variations will not be detected can be reduced by increasing the frequency of test locations; however, this often does not result in any overall cost savings for the project. The data derived from the investigation and subsequent laboratory testing have been extrapolated to form an inferred model and an engineering opinion is rendered about overall subsurface conditions and their likely behaviour with regard to the structure. Actual conditions at the site might differ from those inferred to exist, since no subsurface exploration program, no matter how comprehensive, can reveal all subsurface details and anomalies. The exploratory test records are the subjective interpretation of subsurface conditions at a particular location, made by trained personnel. The interpretation may be limited by the method of investigation and cannot always be definitive. For example, inspection of an excavation or test pit allows a greater area of the subsurface profile to be inspected than borehole investigation; however, such methods are limited by depth and site disturbance restrictions. In borehole investigation, the actual interface between materials may be more gradual or abrupt than a report indicates.

SUBSURFACE CONDITIONS ARE TIME DEPENDENT

Subsurface conditions may be modified by changing natural forces or man-made influences. A geotechnical engineering report is based on conditions which existed at the time of subsurface exploration. Construction operations, at or adjacent to the site, and natural events, such as floods or groundwater fluctuations may also affect subsurface conditions and thus the continuing adequacy of a geotechnical report. The geotechnical engineer should be kept apprised of any such events and should be consulted to determine if additional tests are necessary.

EXPLORATORY LOGS SHOULD NOT BE SEPARATED FROM THE ENGINEERING REPORT

Final exploratory logs are developed by geotechnical engineers based upon their interpretation of field logs and laboratory evaluation of field samples. Customarily, only the final exploratory logs are included in geotechnical engineering reports. These logs should not under any circumstances be redrawn for inclusion in architectural or other design drawings. To minimise the likelihood of exploratory log misinterpretation, contractors should be given access to the complete geotechnical engineering report prepared or authorised for their use. Providing the best available information to contractors helps prevent costly construction problems. For further information on this matter reference should be made to 'Guidelines for the Provision of Geotechnical Information in Construction Contracts' published by the Institution of Engineers Australia, National Headquarters, Canberra 1987.

OTHER LIMITATIONS

WANT Geotechnics will not be liable to update or revise the report to take into account any events or emergent circumstances or facts occurring or becoming apparent after the date of the report.

WANT Geotechnics Pty Ltd

"Unfortunately, soils are made by nature and not by man, and the products of nature are always complex. As soon as we pass from steel and concrete to earth, the omnipotence of theory ceases to exist. Natural soil is never uniform. Its properties change from point to point while our knowledge of its' properties is limited to those few spots at which the samples have been collected. In soil mechanics the accuracy of the computed results never exceeds that of a crude estimate and the principal function of theory consists in teaching us what and how to observe in the field"

Karl Terzaghi – Founder of Modern Geotechnology

Appendix A

Borehole Logs
Dynamic Cone Penetrometer Results
Photographs

PROVIDED FOR INFORMATION PURPOSES
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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 01		Easting / Northing – 52S		717797 / 8616128				Lot Number		15329	
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 1	0.00 – 0.25	Dry	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 1	0.25 – 1.50	Dry	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-

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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Date : 6/10/2020			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No. BH 02			Easting / Northing – 52S		717794 / 8616123				Lot Number		15329 / 15328	
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 2	0.00 – 0.75	Dry	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMLEY WEATHERD ROCK	-
BH 2	0.75 – 1.50	Dry	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	-

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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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 03		Easting / Northing – 52S		717798 / 8616118				Lot Number		15328	
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 3	0.00 – 0.25	Moist	GM	Silty Sandy GRAVEL Dark Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 10 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 3	0.25 – 1.00	Dry	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	-
BH 3	1.00 – 1.50	Dry	CI	Gravelly Sandy SILT Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	3 45 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-

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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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 04		Easting / Northing – 52S		717796 / 8616103				Lot Number		15327	
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 4	0.00 – 0.25	Moist	GM	Silty Sandy GRAVEL Dark Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	-
BH 4	0.25 – 1.00	Dry	GM	Silty Sandy GRAVEL 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	-
BH 4	1.00 – 1.50	Dry	GM	Silty Sandy GRAVEL Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 05		Easting / Northing – 52S		717794 / 8616093				Lot Number		15327 / 15326	
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 5	0.00 – 0.25	Dry	GM	Silty Sandy GRAVEL Very Dark Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	-
BH 5	0.25 – 0.95	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal at 0.95m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 06		Easting / Northing – 52S		717794 / 8616093				Lot Number		15326	
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 6	0.00 – 0.25	Moist	GM	Silty Sandy GRAVEL Dark Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	-
BH 6	0.25 – 0.45	Dry	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 WEATHERED ROCK	Refusal at 0.45m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 07		Easting / Northing – 52S		717753 / 8616080				Lot Number		15325	
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 7	0.00 – 0.30	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Refusal at 0.30m

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Date :	6/10/2020	Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level		
BH No.	BH 08	Easting / Northing – 52S		717753 / 8616080				Lot Number		L15325 / 15324		
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 8	0.00 – 0.30	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	W. Boulders Refusal at 0.30m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 09		Easting / Northing – 52S		717763 / 8616106				Lot Number		15324	
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 9	0.00 – 0.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 9	0.50 – 1.25	Dry	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	EXTREMELY WEATHERD ROCK	Organics Present
BH 9	1.25 – 1.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	-

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 10		Easting / Northing – 52S		717756 / 8616126				Lot Number		15323	
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 – 0.45	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 10	0.45 – 0.75	Dry	GM	Silty Sandy GRAVEL Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Organics Present
BH 10	0.75 – 1.50	Dry	GM	Gravelly Sandy SILT Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	-

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 11		Easting / Northing – 52S		717756 / 8616117				Lot Number		15323 / 15322	
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 – 0.50	Dry	GM	Silty Sandy GRAVEL Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 11	0.50 – 0.70	Dry	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	Organics Present
BH 11	0.70 – 1.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	-

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 12		Easting / Northing – 52S		717755 / 8616129				Lot Number		15322	
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 – 0.40	Dry	GM	Silty Sandy GRAVEL Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 12	0.40 – 0.70	Dry	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	RESIDUAL SOIL	-
BH 12	0.70 – 1.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 25	Fine to Course	Fine	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-

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BH No.	BH 13		Easting / Northing – 52S		717757 / 8616129				Lot Number		15321	
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 – 0.35	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 13	0.35 – 0.65	Dry	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	RESIDUAL SOIL	Organics Present
BH 13	0.65 – 1.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 14		Easting / Northing – 52S		717749 / 8616139				Lot Number		15321 / 15320	
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 – 0.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 14	0.50 – 0.75	Dry	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	RESIDUAL SOIL	Organics Present
BH 14	0.75 – 1.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 15		Easting / Northing – 52S		717750 / 8616148				Lot Number		15320	
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 – 0.65	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 15	0.65 – 1.00	Dry	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	RESIDUAL SOIL	Organics Present
BH 15	1.00 – 1.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-

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BH No.	BH 16		Easting / Northing – 52S		717750 / 8616148				Lot Number		15319	
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 – 0.55	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 16	0.55 – 0.75	Dry	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	RESIDUAL SOIL	Organics Present
BH 16	0.75 – 1.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 17		Easting / Northing – 52S		717743/8616155				Lot Number		15319 / 15318	
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 – 0.75	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 17	0.75 – 1.25	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	-
BH 17	1.25 – 1.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	-

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 18		Easting / Northing – 52S		717716 / 8616149				Lot Number		15318	
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	0.0 – 0.30	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 18	0.30 – 0.60	Dry	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	RESIDUAL SOIL	Organics Present
BH 18	0.60 – 1.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 19		Easting / Northing – 52S		717725 / 8616129				Lot Number		15317	
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 – 0.30	Dry	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.30m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 20		Easting / Northing – 52S		717724 / 8616126				Lot Number		15317 / 15316	
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 – 0.55	Dry	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.55m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 21		Easting / Northing – 52S		717718 / 8616114				Lot Number		15316	
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 – 0.40	Dry	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.40m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 22		Easting / Northing – 52S		717715 / 8616107				Lot Number		15315	
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 – 0.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.50m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 23		Easting / Northing – 52S		717715 / 8616107				Lot Number		15315 / 15314	
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 – 0.45	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.45m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 24		Easting / Northing – 52S		717716 / 8616149				Lot Number		15314	
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 – 0.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	-
BH 24	0.50 – 1.10	Dry	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 1.10m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 25		Easting / Northing – 52S		717724 / 8616089				Lot Number		15314 / 15313	
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 – 0.25	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	RESIDUAL SOIL	Organics Present
BH 25	0.25 – 1.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 45 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	-

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 26		Easting / Northing – 52S		717723 / 8616077				Lot Number		15313	
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 – 0.25	Dry	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	FILL	-
BH 26	0.25 – 0.80	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal at 0.80m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 27		Easting / Northing – 52S		717686/ 8616091				Lot Number		15312	
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 – 0.60	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	With Boulders
BH 27	0.60 – 1.00	Dry	GM	Silty Sandy GRAVEL Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 1.00m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 28		Easting / Northing – 52S		717683 / 8616097				Lot Number		15312 / 15311	
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 – 0.70	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 28	0.70 – 0.85	Dry	GM	Silty Sandy GRAVEL Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Organics Present - Refusal at 0.85m

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Date :	6/10/2020	Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level		
BH No.	BH 29	Easting / Northing – 52S		717684 / 8616104				Lot Number		15311		
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 – 0.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	With Boulders
BH 29	0.50 – 0.70	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Organics Present - Refusal at 0.70m

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Date :	6/10/2020	Drill Rig/Excavator :			Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 30	Easting / Northing – 52S			717690 / 8616120				Lot Number		15310	
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 – 0.50	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	With Boulders
BH 30	0.50 – 1.00	Dry	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal at 1.00m

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Date :	6/10/2020	Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level		
BH No.	BH 31	Easting / Northing – 52S		717680 / 8616121				Lot Number		15310 / 15309		
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 – 0.40	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 31	0.40 – 1.10	Dry	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERED ROCK	Organics Present - Refusal at 1.10m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 32		Easting / Northing – 52S		717677/ 8616134				Lot Number		15309	
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 – 0.25	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 32	0.25 – 1.20	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	Organics Present - Refusal at 1.20m

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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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 33		Easting / Northing – 52S		717676/ 8616139				Lot Number		15308	
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 (%)	10 40 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 33	0.10 – 1.15	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Organics Present - Refusal at 1.15m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 34		Easting / Northing – 52S		717677/ 8616143				Lot Number		15308 / 15307	
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 – 0.45	Dry	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 40	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMLEY WEATHERD ROCK	Organics Present - Refusal at 0.45m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 35		Easting / Northing – 52S		717672/ 8616151				Lot Number		15307	
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 – 0.30	Dry	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 45 40	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMLEY WEATHERD ROCK	Organics Present - Refusal at 0.30m

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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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 36		Easting / Northing – 52S		717647 / 8616150				Lot Number		15306	
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 – 0.50	Dry	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal at 0.50m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 37		Easting / Northing – 52S		717654 / 8616216				Lot Number		15290	
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 – 0.15	Dry	GM	Silty Sandy GRAVEL Dark Brown/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal at 0.15m

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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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 38		Easting / Northing – 52S		717640 / 8616212				Lot Number		15290 / 15291	
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 – 0.25	Dry	GM	Silty Sandy GRAVEL Dark Brown/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.25m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 39		Easting / Northing – 52S		717646 / 8616211				Lot Number		15291	
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 – 0.30	Dry	GM	Silty Sandy GRAVEL Dark Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.30m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 40		Easting / Northing – 52S		717641 / 8616193				Lot Number		15292	
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 – 0.25	Dry	GM	Silty Sandy GRAVEL Dark Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Refusal at 0.25m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 41		Easting / Northing – 52S		717656 / 8616194				Lot Number		15292 / 15293	
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 – 0.35	Dry	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal at 0.35m

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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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 42		Easting / Northing – 52S		717661 / 8616214				Lot Number		15293	
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 – 0.35	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.35m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 43		Easting / Northing – 52S		717680 / 8616203				Lot Number		15294	
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 – 0.25	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.25m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 44		Easting / Northing – 52S		717684 / 8616209				Lot Number		15294 / 15295	
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 – 0.70	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERED ROCK	Refusal at 0.70m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 45		Easting / Northing – 52S		717700 / 8616209				Lot Number		15295	
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 – 0.30	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERED ROCK	Refusal at 0.30m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 46		Easting / Northing – 52S		717705 / 8616210				Lot Number		15296	
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 – 0.40	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.40m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 47		Easting / Northing – 52S		717697 / 8616209				Lot Number		15296 / 15297	
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 – 0.55	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.55m

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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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 48		Easting / Northing – 52S		717717 / 8616204				Lot Number		15297	
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 (%)	5 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Organics Present - Refusal at 0.50m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 49		Easting / Northing – 52S		717732 / 8616201				Lot Number		15298	
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 – 0.45	Dry	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.45m

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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 50		Easting / Northing – 52S		717737 / 8616199				Lot Number		15298 / 15299	
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 – 0.40	Dry	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.40m

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

Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 51		Easting / Northing – 52S		717738 / 8616208				Lot Number		15299	
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 – 0.35	Dry	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.35m

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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Date :	6/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 52		Easting / Northing – 52S		717756 / 8616197				Lot Number		15300	
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 – 0.95	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.95m

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

Date :	7/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 53		Easting / Northing – 52S		717765 / 8616189				Lot Number		15300 / 15301	
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 – 0.75	Dry	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	-
BH 53	0.75 – 1.40	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 1.40m

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Date :	7/10/2020		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finish Level		
BH No.	BH 54		Easting / Northing – 52S		717771 / 8616194			Lot Number		15301		
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 – 0.70	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.70m

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

Date :	7/10/2020		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finish Level		
BH No.	BH 55		Easting / Northing – 52S		717783/ 8616192			Lot Number		15301 / 15302		
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 – 0.20	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 55	0.20 – 0.95	Dry	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.95m

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Date :	7/10/2020		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finish Level		
BH No.	BH 56		Easting / Northing – 52S		717783 / 8616196			Lot Number		15302		
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 – 0.30	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 0.30m

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

Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finish Level		
BH No.	BH 57		Easting / Northing – 52S		717828/ 8616211			Lot Number		15305		
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 – 0.60	Dry	GM	Silty Sandy GRAVEL Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 57	0.60 – 1.05	Dry	GM	Silty Sandy GRAVEL Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMLEY WEATHERD ROCK	Refusal at 1.05m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finish Level		
BH No.	BH 58		Easting / Northing – 52S		717823 / 8616198			Lot Number		15304 / 15305		
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 – 0.45	Dry	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	FILL	-
BH 58	0.45 – 0.90	Dry	GM	Silty Sandy GRAVEL Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 30	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal at 0.90m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 59		Easting / Northing – 52S		717818 / 8616196				Lot Number		15304	
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 – 0.45	Dry	GM	Silty Sandy GRAVEL Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 59	0.45 – 0.60	Dry	GM	Silty Sandy GRAVEL Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal at 0.60m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finish Level		
BH No.	BH 60		Easting / Northing – 52S		717590 / 8616215			Lot Number		15285		
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 – 0.65	Moist	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	FILL	-
BH 60	0.65 – 0.80	Dry	GM	Silty Sandy GRAVEL Pale Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 15	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Organics Present - Refusal at 0.80m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 61		Easting / Northing – 52S		717617 / 8616212				Lot Number		15285 / 15286	
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 – 0.55	Moist	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	FILL	-
BH 61	0.55 – 0.70	Dry	GM	Silty Sandy GRAVEL Pale Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 40 25	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERED ROCK	Organics Present - Refusal at 0.70m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 62		Easting / Northing – 52S		717608 / 8616202				Lot Number		15286	
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 Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 61	0.40 – 0.65	Dry	GM	Silty Sandy GRAVEL Pale Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 25 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Organics Present - Refusal at 0.65m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 63		Easting / Northing – 52S		717600 / 8616188				Lot Number		15287	
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 – 0.25	Moist	GM	Sandy GRAVEL with Silt Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 0 5	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 63	0.25 – 0.45	Dry	GM	Silty Sandy GRAVEL Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 20 15	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Organics Present (Roots)
BH 63	0.45 – 0.50	Dry	GM	Silty Sandy GRAVEL Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal at 0.50m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 64		Easting / Northing – 52S		717602 / 8616177				Lot Number		15287 / 15288	
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 – 0.20	Moist	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 64	0.20 – 0.75	Dry	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMLEY WEATHERD ROCK	Organics Present (roots) - Refusal at 0.75m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 65		Easting / Northing – 52S		717602 / 8616168				Lot Number		15288	
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 – 0.40	Moist	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	RESIDUAL SOIL	-
BH 65	0.40 – 0.60	Dry	GM	Silty Sandy GRAVEL Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	EXTREMELY WEATHERD ROCK	Organics Present (roots) - Refusal at 0.60m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 66		Easting / Northing – 52S		717602 / 8616168				Lot Number		15288 / 15289	
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 – 0.45	Moist	GM	Sandy GRAVEL with Silt Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 0 5	Fine to Course	Fine to Medium	Angular- Sub Angular	EXTREMELY WEATHERD ROCK	Refusal at 0.45m

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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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 67		Easting / Northing – 52S		717584 / 8616148				Lot Number		15289	
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 – 0.10	Moist	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 67	0.10 – 0.20	Moist	GM	Sandy GRAVEL with Silt Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 10 10	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	RESIDUAL SOIL	Organics Present (Roots)
BH 67	0.20 – 0.30	Dry	GM	Silty Sandy GRAVEL Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 25 20	Fine to Course	Fine to Medium	Angular-Sub Angular	EXTREMELY WEATHERD ROCK	Refusal at 0.30m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 68		Easting / Northing – 52S		717837 / 8616149				Lot Number		15332	
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 – 0.50	Moist	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 68	0.50 – 0.90	Moist	GM	Silty Sandy GRAVEL Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 24 20	Fine to Course	Fine to Medium	Angular-Sub Angular	FILL	Boulders Present – Refusal at 0.90m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 69		Easting / Northing – 52S		717821 / 8616155				Lot Number		15332 / 15331	
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 69	0.00 – 0.40	Moist	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 69	0.40 – 0.80	Dry	GM	Silty Sandy GRAVEL Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	15 25 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Boulders Present – Refusal at 0.80m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 70		Easting / Northing – 52S		717815 / 8616150				Lot Number		15331	
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 70	0.00 – 0.50	Moist	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 70	0.50 – 0.90	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	FILL	Boulders Present – Refusal at 0.90m

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BH No.	BH 70		Easting / Northing – 52S		717815 / 8616150				Lot Number		15331	
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 70	0.00 – 0.50	Moist	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 70	0.50 – 0.90	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	FILL	Boulders Present – Refusal at 0.90m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 71		Easting / Northing – 52S		717805 / 8616148				Lot Number		15331 / 15330	
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 71	0.00 – 0.25	Moist	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 71	0.25 – 0.75	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	FILL	Boulders Present – Refusal at 0.75m

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Date :	20/10/2020		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finish Level	
BH No.	BH 72		Easting / Northing – 52S		717793 / 8616152				Lot Number		15330	
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 72	0.00 – 0.25	Moist	GM	Silty Sandy GRAVEL Very Pale Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 72	0.25 – 0.90	Dry	GM	Silty Sandy GRAVEL Pale Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	10 35 30	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Boulders Present – Refusal at 0.90m

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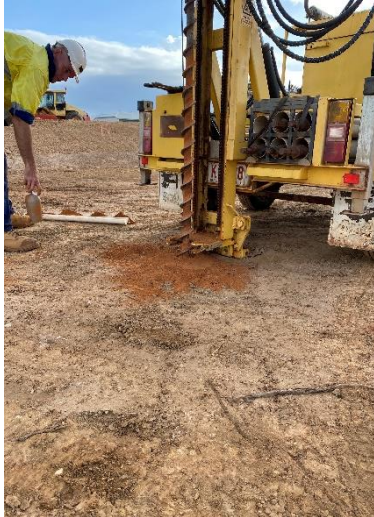
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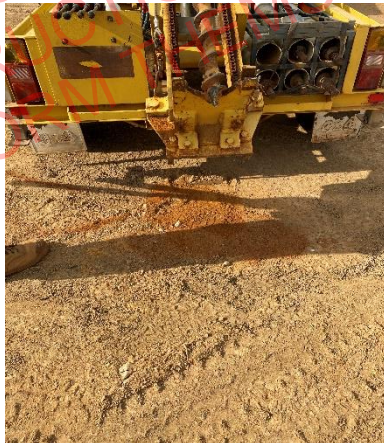
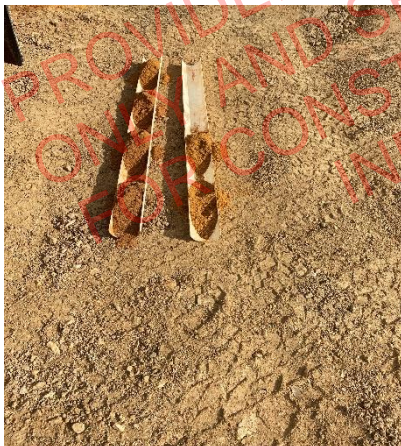
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BH 1 - Lot 15329



BH 2 - Lot 15329 / 15328



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BH 3 - Lot 15328



BH 4 - Lot 15327



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BH 5- Lot 15327 / 15326



BH 6 - Lot 15326



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BH 7- Lot 15325



BH 8 - Lot 15325 / 15324



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BH 9- Lot 15324



BH 10 - Lot 15323



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BH 11- Lot 15323 / 15322



BH 12 - Lot 15322



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BH 13- Lot 15321



BH 14 - Lot 15321 / 15320



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BH 15- Lot 15320



BH 16 - Lot 15319



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BH 17- Lot 15319 / 15318



BH 18 - Lot 15318



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BH 19- Lot 15317



BH 20 - Lot 15317 / 15316



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BH 21- Lot 15316



BH 22 - Lot 15315



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BH 23- Lot 15315 / 15314



BH 24 - Lot 15314



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BH 25- Lot 15314 / 15313



BH 26 - Lot 15313



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BH 27- Lot 15312



BH 28 - Lot 15312 / 15311



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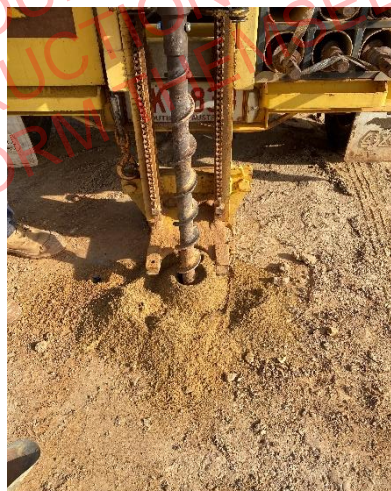
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BH 29- Lot 15311



BH 30 - Lot 15310



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BH 31- Lot 15310 / 15309



BH 32 - Lot 15309



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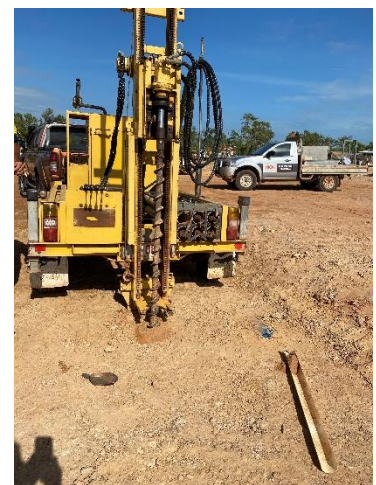
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BH 33- Lot 15308



BH 34 - Lot 15308 / 15307



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BH 35- Lot 15307



BH 36 - Lot 15306



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BH 37- Lot 15290



BH 38 - Lot 15290 / 15291



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BH 39- Lot 15291



BH 40 - Lot 15292



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BH 41- Lot 15292 / 15293



BH 42 - Lot 15293



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BH 43- Lot 15294



BH 44-Lot 15294 / 15295



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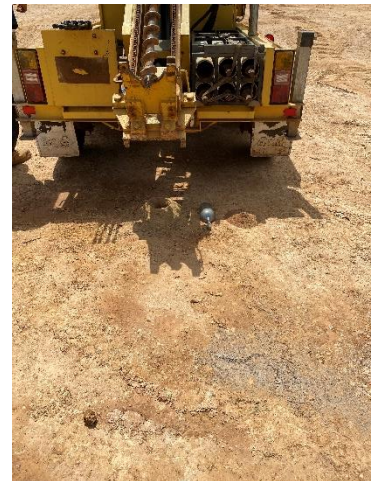
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BH 45- Lot 15295



BH 46- Lot 15296



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BH 47- Lot 15296 / 15297



BH 48- Lot 15297



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BH 49- Lot 15298



BH 50- Lot 15298 / 15299



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BH 51- Lot 15299



BH 52- Lot 15300



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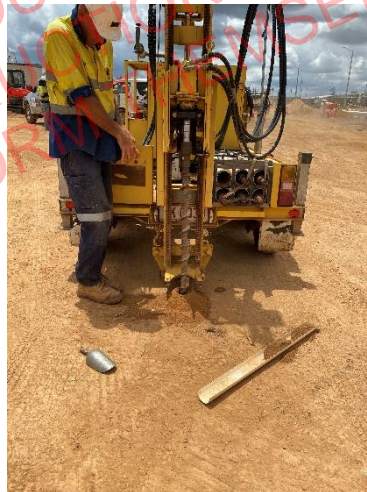
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BH 53- Lot 15300 / 15301



BH 54- Lot 15301



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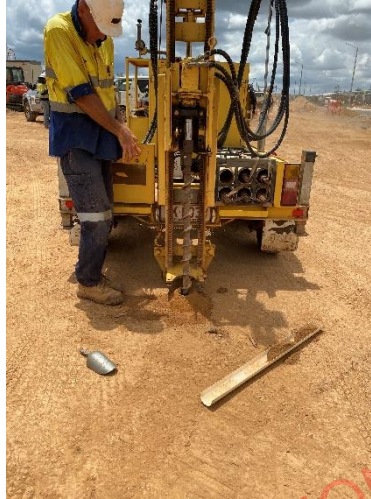
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BH 55- Lot 15301 / 15302



BH 56- Lot 15302



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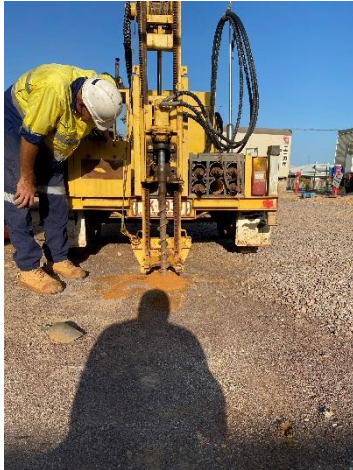
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BH 57- Lot 15305



BH 58- Lot 15304 / 15305



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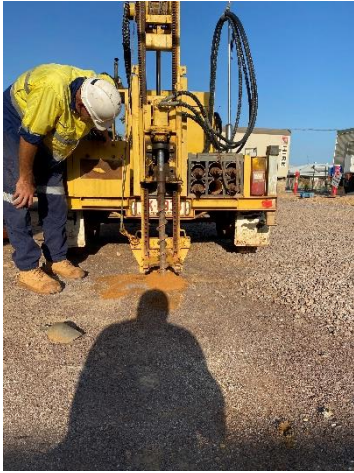
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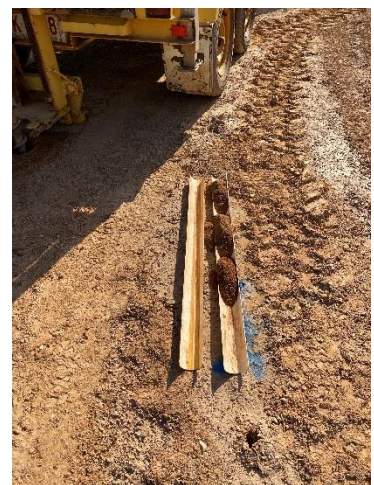
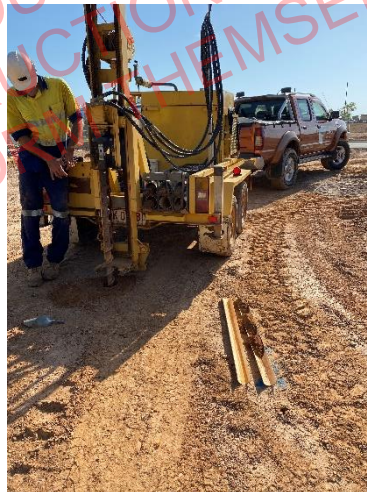
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BH 59- Lot 15304



BH 60- Lot 15285



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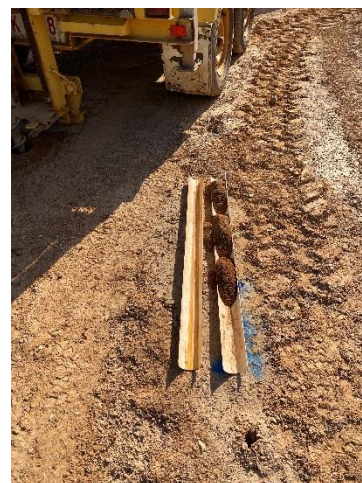
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BH 61- Lot 15285 / 15286



BH 62- Lot 15286



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BH 63- Lot 15287



BH 64- Lot 15287 / 15288



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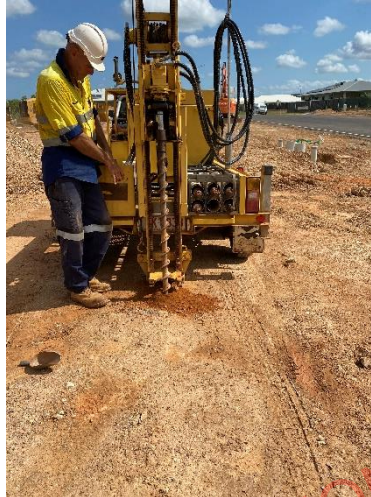
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BH 65- Lot 15288



BH 66- Lot 15288 / 15289



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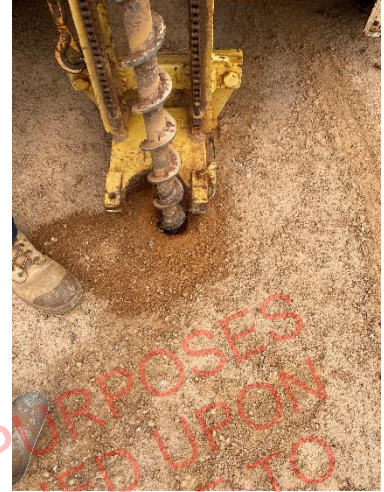
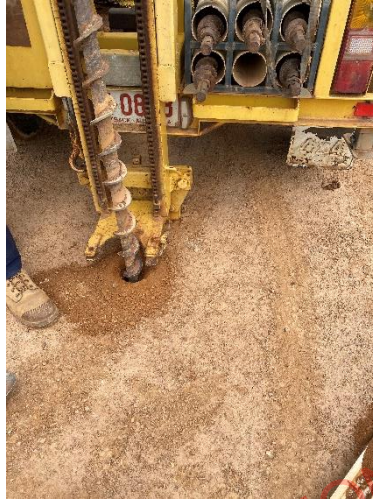
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BH 67- Lot 15289



BH 68- Lot15332



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BH 69- Lot15332 / 15331



BH 70- Lot 15331



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BH 71- Lot 15331 / 15330



BH 72- Lot15330



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