IGSL Ltd

PPK3 Profile Park

RECEIVED. PBIOGROPH Ground Investigation Report

Project No. 22000

November 2019



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DOCUMENT ISSUE REGISTER													
Distribution	Report Status	Rev	Date of Issue	Author	Reviewer								
PM Group	PDF by email	0	24.10.19	S. Cunningham BSc MSc	P. Quigley BEng CEng MIEI MICE FGS	2100L×							
PM Group	PDF by email	5		S. Cunningham	P. Quigley								

DOCUMENT ISSUE REGISTER

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FOREWORD

The following conditions and notes on the geotechnical site investigation procedures should be read in conjunction with this report.

Standards

The ground investigation works for this project (PPK 3) have been carried out by ICSL in accordance with Eurocode 7 - Part 2: Ground Investigation & Testing (EN 1997-2:2007). This has been used together with complementary documents such as Engineers Ireland Specification for Ground Investigation (2nd Ed, 2016), BS 5930 (2015) and BS 1377 (Parts 1 to 9) and the following European Norms:

- EN 1997-2 Eurocode 7: 2007 Geotechnical Design Part 2: Ground Investigation & Testing
- EN ISO 22475-1:2006 Geotechnical Investigation and Sampling Sampling Methods & Groundwater Measurements
- EN ISO 14688-1:2002 Geotechnical Investigation and Testing Identification and Classification of Soil, Part 1: Identification and Description
- EN ISO 14688-2:2004 Geotechnical Investigation and Testing Identification and Classification of Soil, Part 2: Classification Principles
- EN ISO 14689-1:2004 Geotechnical Investigation and Testing Identification & Classification of Rock, Part 1: Identification & Description

Reporting

No responsibility can be held by IGSL Ltd for ground conditions between exploratory hole locations. The engineering logs provide ground profiles and configuration of strata relevant to the investigation depths achieved and caution should be taken when extrapolating between exploratory points. No liability is accepted for ground conditions extraneous to the investigation points. Unless specifically stated, no account has been taken of possible subsidence due to mineral extraction, mining works or karstification below or close to the site.

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Boring Procedures

Where required, 'shell and auger' or cable percussive boring technique is employed as defined by Section 6.3 of IS EN ISO 22475-1:2006. The boring operations, sampling and in-situ testing meet with the recommendations set out in IS EN 1997-2:2007 and BS 1377:1990 and EN ISO 22476-3:2005. The shell and auger boring technique allows for continuous sampling in clay and silt above the water table and sand and gravel below the water table (Table 2 of IS EN ISO 22475-1:2006).

It is highlighted that some disturbance and variation is unavoidable in particular ground (e.g. blowing sands, gravel / cobble dominant glacial deposits etc). Attention is drawn to this condition, whenever it is suspected. Where cobbles and boulders are recorded, no conclusion should be drawn concerning the size, presence, lithological nature, or numbers per unit volume of ground.

In-Situ Testing

Where required, Standard Penetration Tests (SPT's) are conducted strictly in accordance with Section 4.6 of IS EN 1997-2:2007. The SPT equipment (hammer energy test) has been calibrated in accordance with EN ISO 22476-3:2005 and the Energy Ratio (E_r). A calibration certificate is available upon request. The E_r is defined as the ratio of the actual energy E_{meas} (measured energy during calibration) delivered to the drive weight assembly into the drive rod below the anvil, to the theoretical energy (E_{theor}) as calculated from the drive weight assembly. The measured number of blows (N) reported on the engineering logs are uncorrected. In sands, the energy losses due to rod

length and the effect of the overburden pressure should be taken into account (see IS EN ISO 22476-3:2005).

Soil Sampling

Three categories of sampling methods are outlined in EN ISO 22475-1:2006. The categories are referenced A, B and C for any given ground conditions and are shown in Tables 1 and 2 of the ISO 22475-1:2006. Reference should be made to EN 1997-2:2002 for guidelines on sample class and quality for strength and compressibility testing. Samples of quality classes 1 or 2 can only be obtained by using Category A sampling methods.

Class 1 thin wall undisturbed tube samples (UT100) were obtained in fine grained soils and strictly meet the requirements of EN 1997-2:2002 and EN ISO 22475-1:2006. Soil samples for laboratory tests are divided into five classes with respect to the soil properties that are assumed to remain unchanged during sampling, handling transport and storage. The minimum sample quality required for testing purposes to Eurocode 7 compatibility (EN 1997-2:2002) is shown in Table A.

EN 1997 Clause	Test	Minimum Sample Quality Class
5.5.3	Water Content	3
5.5.4	Bulk Density	2
5.5.5	Particle Density	N/S
5.5.6	Particle Size Analysis	N/S
5.5.7	Consistency Limits	4
5.5.8	Density Index	N/S
5.5.9	Soil Dispersivity	N/S
5.5.10	Frost Susceptibility	N/S
5.6.2	Organic Content	4
5.6.3	Carbonate Content	3
5.6.4	Sulphate Content	3
5.6.5	рН	3
5.6.6	Chloride Content	3
5.7	Strength Index	1
5.8	Strength Tests	1
5.9	Compressibility Tests	1
5.10	Compaction Tests	N/S
5.11	Permeability	2

Table A – Details of Sample Quality Requirements

N/S – not stated. Presume a representative sample of appropriate size.

Samples recovered from trial pits or trenches meet the requirements of IS EN ISO 22475-1. It is highlighted that unforeseen circumstances such as variations in geological strata may lead to lower quality sample classes being obtained.

Groundwater

The depth of entry of any influx of groundwater is recorded during the course of boring operations. However, the normal rate of boring does not usually permit the recording of an equilibrium level for any one water strike. Where possible, drilling is suspended for a period of twenty minutes to monitor the subsequent rise in water level. Groundwater conditions observed in the borings or pits are those appertaining to the period of investigation. It should be noted however, that groundwater levels are subject to diurnal, seasonal and climatic variations and can also be affected by drainage conditions, tidal variations etc.

Engineering Logging

Soil and rock identification has been based on the examination of the samples recovered and conforms with IS EN ISO 14688-1:2002 and IS EN ISO 14689-1:2004. Rock weathering classification conforms to IS EN ISO 14689-1:2003 while discontinuities (bedding planes, joints, cleavages, faults etc) are classified in accordance with 4.3.3 of IS EN ISO 14689-1:2003. Rock mechanical indices (TCR, SCR, RQD) are defined in accordance with IS EN ISO 22475-1:2006

Where peat has been encountered, samples have been logged in accordance with the Von Post Classification (ref. Von Post, L. 1992. Sveriges Gologiska Undersoknings torvinventering och nogra av dess hittils vunna resultat (SGU peat inventory and some preliminary results) Svenska Mosskulturforeningens Tidskrift, Jonkoping, Swedden, 36, 1-37 and Hobbs N. B. Mire morphology and the properties of some British and foreign peats. QJEG, Vol. 19, 1986.

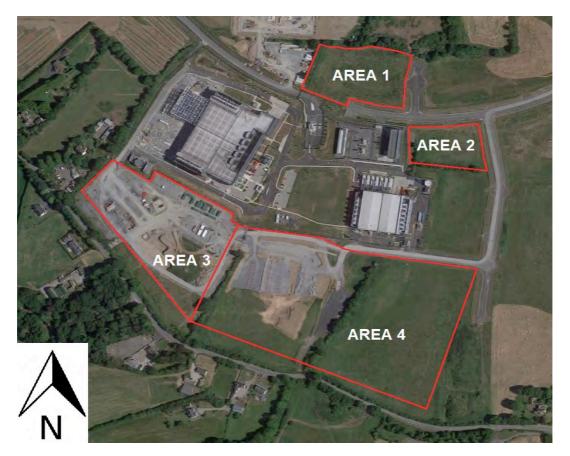
Retention of Samples

After satisfactory completion of all the scheduled laboratory tests on any sample, the remaining material will be discarded. Unless a period of retention of samples is agreed, it is our normal practice to discard all soil samples one month after submission of our final report.

1. INTRODUCTION

At the instruction of PM Group, IGSL has undertaken a programme of geotechnical investigations at Profile Park, West Dublin. It is understood that the client proposes to construct a data storage facility (80MW), CUB, administration block and associated infrastructure (access roads, car parking etc). The site is located in west Dublin and encompasses an area of approximately 13.8 Ha. Ground levels or elevations range from c74 to 83m OD and the western portion of the site (Area 3) is occupied by a site compound (BAM) and car parking.

Figure 1 - Project Location



The investigations comprised geophysical surveying followed by trial pits, rotary core drillholes, dynamic probes, plate load tests, soakaway tests, rock excavation trials and a compaction trial. Geotechnical instrumentation (standpipes) was installed in select rotary drillholes. The investigations were executed in accordance with BS 5930, Code of Practice for Site Investigations (2016) and EN 1997-2 Eurocode 7 Part 2 Ground Investigation & Testing.

Geotechnical laboratory testing was carried out on a range of samples recovered from the trial pits, trial excavations and rotary cores. Geotechnical testing included particle size distribution, moisture content, Atterberg Limits, CBR, MCV, Los Angeles, slake durability, Chemical analysis, thin section petrography and XRD was conducted on selected rock core samples to evaluate sulphate and sulphur and form and distribution of suspected pyrite. Environmental analysis was conducted on soil samples retrieved from the trial pits.

The 'as-built' exploratory locations were surveyed by IGSL and the co-ordinates and elevations are presented on the field logs. A site plan / drawing has been prepared and this shows the locations of the 'as-built' exploratory points (Appendix 16).

2. FIELDWORKS

2.1 General

OUTED. POPOEropa The geotechnical and geophysical investigations were carried out during the period August to October 2019 and included the following:

- o Trial pits (100 No.)
- Rotary core drillholes (30 No.) 0
- Dynamic probes (59 No.)
- 0 Plate load tests (32 No.)
- Soakaway tests (8 No.)
- Rock Excavation Trials (4 No.)
- Compaction trial (1 No.) 0
- Geophysical surveying 0
- o Groundwater instrumentation & monitoring
- Surveying of 'as-built' exploratory locations 0

2.2 Trial Pits

Trial pitting was performed with 6T rubber wheeled excavators. The trial pits were logged and sampled by an IGSL engineering geologist in accordance with BS 5930 (2015). Bulk disturbed samples (typically 20 to 25 kg) were taken as the pits progressed. The samples were placed in heavy-duty polyethene bags and sealed before being transported to Naas for laboratory testing. The trial pits were backfilled with the as-dug arisings and reinstated to the satisfaction of IGSL's site representative. The trial pit logs are presented in Appendix 1 and include descriptions of the soils encountered, ground and groundwater conditions and stability of excavations.

2.3 Rotary Core Drillholes

Rotary core drilling was undertaken at thirty locations using a combination of Casagrande and Knebel top drive rigs. The rotary drillholes (denoted RC 1 to RC 30) produced 78mm diameter (P size) cores using air mist flush. The core samples were placed in 3m capacity timber boxes and transported to IGSL's laboratory in Naas for logging and photography.

Standpipes were installed in eight rotary holes to establish equilibrium groundwater levels and if required facilitate recovery of samples for environmental analysis. The standpipes (50mm diameter uPVC with proprietary 1mm slots and filter sock) incorporated a pea gravel filter pack and cement/bentonite grout seal. Protective headwork covers were concreted in place.

The cores were logged and photographed by a senior IGSL engineering geologist. The core log records are presented in Appendix 2 and these include engineering geological descriptions of the recovered material, mechanical indices (TCR) for each core run and instrumentation details. Core photographs are also presented in Appendix 2 and these illustrate the composition and structure of the recovered materials.

2.4 Dynamic Probes

Dynamic probing (DPH) was carried out using a Dando Terrier rig. This unit meets the requirements of BS 1377, Part 9 (1990) and IS EN 1997-2:2007. The probing rig utilized a 50 kg drop weight and 500mm drop height with a 60° cone. In accordance with the aforementioned standards, the number of blows required to drive the cone each 100mm increment into the sub-soil was recorded. An energy ratio of 87% has been calibrated and measured for the DP equipment. The dynamic probe logs are presented in Appendix 3 and include blow-counts in both numerical and graphical format.

2.5 Plate Load Tests

Plate load tests were conducted on the shallow or near surface materials (0.50 to 0.70m bgl). The plate testing was undertaken to evaluate modulus of sub-grade reaction (Ks) and equivalent CBR value. A 450mm diameter plate was used for the tests with kentledge provided by a 7t excavator. Two load cycle tests were performed and the load / settlement plots, Ks and equivalent CBR values are presented in Appendix 4.

2.6 Soakaway Tests

Soakaway or infiltration tests were conducted in line with BRE 365. The tests involved excavation of the upper soils, saturation and monitoring dissipation rates. The soakaway test records are snown in Appendix 5. 202×

2.7 Groundwater Monitoring

Groundwater levels in the standpipes were recorded at the end of the fieldworks and details are presented in Appendix 6.

2.8 Rock Excavation Trial

Large rock excavation trials were undertaken at four areas across the site. The key objective was to establish the engineering geological characteristics of the upper bedrock or rock mass. The excavation trials are denoted TEX 1 to TEX 4 and attained depths of 3.7 to 4.15m bgl. A 21T excavator was used equipped with a 1.5T breaker to loosen or fracture the upper rock mass.

Following excavation of the superficial deposits ('overburden') with the toothed bucket, the rock was fractured by hydraulic breaking. The duration for hydraulic breaking at each lift was recorded and this enables production rates to be determined for the plant used.

Scanline surveying was also carried out to measure discontinuity characteristics (i.e. spacings, apertures, persistence, infilling, staining etc) and large bulk samples were taken and placed in 1T sacks. The trial excavation records are presented in Appendix 7 and include production records for each lift, ground conditions, discontinuity information and photographs.

2.9 Compaction Trial

A compaction trial was performed at TEX 3 to assess the performance of the as-dug soils (glacial till) and excavated bedrock in an earthwork environment. Three lifts (c300mm each) were formed with compaction (roller passes) by a smooth drum roller. Plate load tests were carried out on formation prior to placing the first layer of fill and subsequently on each of the three layers to assess stiffness (Ks) and CBR. The compaction trial findings are presented in Appendix 8.

2.10 Geophysical Surveying

Geophysicsal surveying was carried out by Apex Geoservices and utilized electro magnetic (EM 31), electrical resistivity tomography (ERT) and seismic refraction techniques. The main objective of the geophysics was to establish depth to bedrock and assess the presence of geological anomalies or features (e.g. buried channels or glacial scouring). Details of the survey methodologies, findings and x-section profiles are presented in the geophysical report (refer to Appendix 9).

2.11 Surveying of Exploratory Locations

Following completion of the exploratory works, surveying was carried out using GPS techniques. Co-ordinates (x, y) were measured to national grid and ground levels (z) established to Malin Head. The co-ordinates and ground levels are shown on the exploratory logs while the 'as-built' ground investigation points are presented on the drawings in Appendix 16.

3. LABORATORY TESTING

Laboratory testing was carried out on selected trial pit, rotary drillhole and rock excavation trial samples. The soils testing was undertaken in accordance with BS 1377 (1990) and included moisture content, particle size grading, Atterberg Limits (Liquid & Plastic Limits), CBR, MCV and thermal resistivity. The soil test results are presented in Appendix 11.

Point load strength index (PLSI) tests were performed on rock core specimens in accordance with ISRM. Geomaterials testing (i.e. Los Angeles abrasion and slake durability)) was carried out to evaluate the re-use potential of the upper bedrock in relation to capping i(Series 600 of the NRA / TII SRW) in pavement construction. The rock and geomaterial laboratory test records are enclosed in Appendix 12.

Chemical analysis tests (i.e. acid soluble sulphate, water soluble sulphate & total sulphur contents) were conducted on a number of rock core and trial pit samples (in accordance with EN 1744). The chemical analysis records are presented in Appendix 13.

Simplified and thin section petrographic analysis was undertaken on selected trial pit and rock core specimens. The thin section analysis and reporting was undertaken by Dr GD Matheson and the key objective of the petrography (incorporating XRD) was to evaluate mineralogy, form and distribution of pyrite (notably if 'framboidal' pyrite is present) and assess the potential for pyrite induced swelling. The thin section petrographic and XRD reports are enclosed in Appendix 14.

Environmental testing (WAC) was conducted on a number of trial pit samples and the test results are presented in Appendix 15.

REFERENCES

BS 5930 (2015) Code of Practice for Site Investigation, British Standards institution 1.0 (BSI). 18106101×

2.0 BS 1377 (1990) Methods of Testing of Soils for Civil Engineering Purposes, BSI

3.0 Eurocode 7, Part 2: Ground Investigation & Testing (EN 1997-2:2007)

4.0 IS EN 14689-1-2004: Geotechnical Investigation & Testing - Identification and Classification of Rock, Part 1

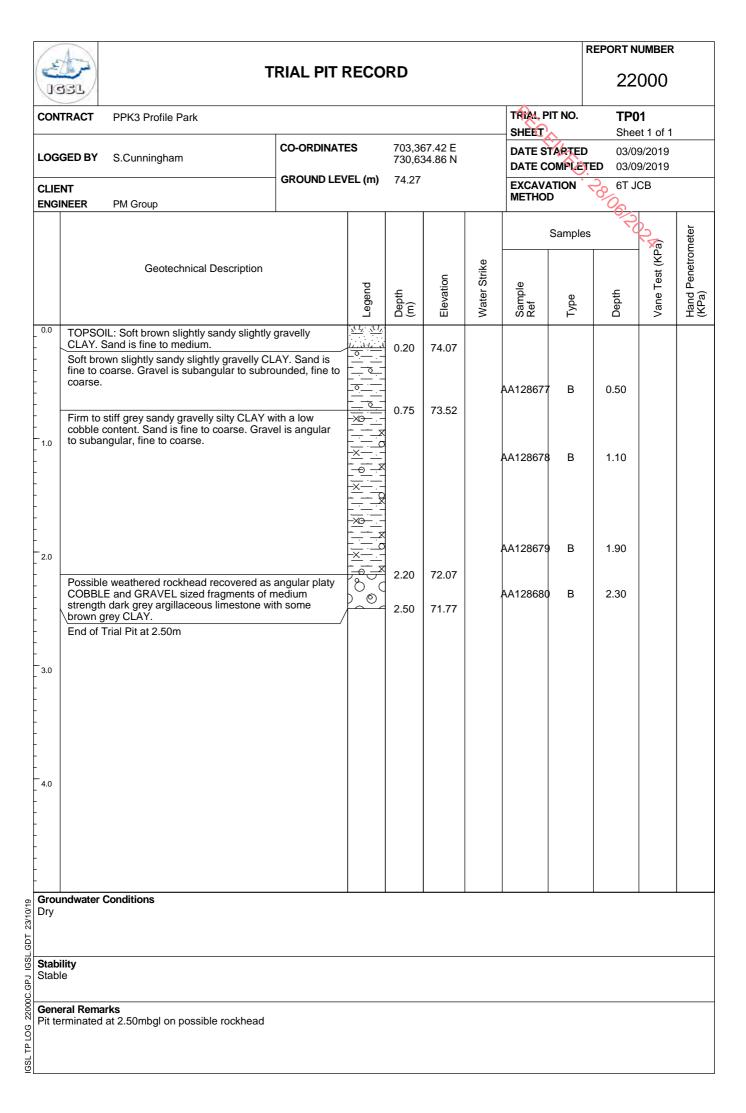
5.0 IS EN 932-3:1997, Tests for General Properties of Aggregates, Part 3 Procedures for Simplified Petrographic Description

6.0 Site Investigation Practice: Assessing BS 5930 (1986), Geological Society Special Publication, No. 2.

Appendix 1

Trial Pit Records & Photographs





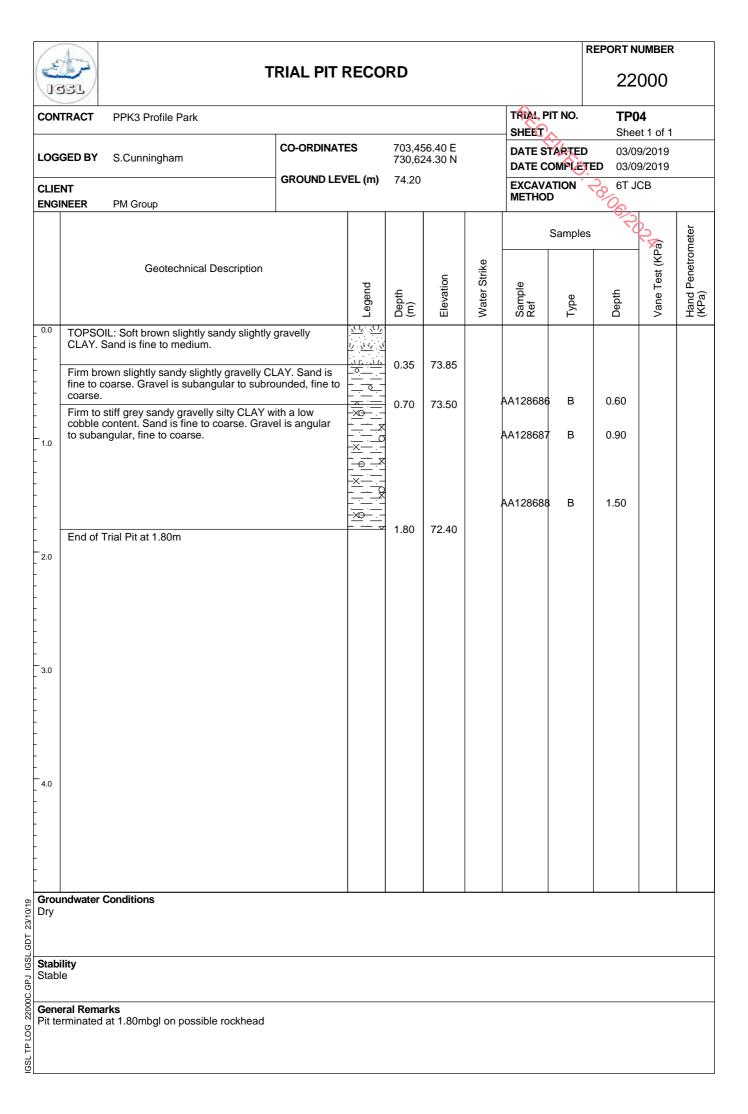


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CON	TRACT	PPK3 Profile Park						TRIAL P	IT NO.	TP0	2 et 1 of 1			
LOG	GED BY	S.Cunningham		CO-ORDINATES 703,396.19 E 730,630.80 N GROUND LEVEL (m) 74.29					DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019					
CLIE ENGI	NT NEER	PM Group			14.20			EXCAVA METHO		OF J	СВ			
		Geotechnical Descri	ption				rike		Samples		st (KPa)	Hand Penetrometer		
				Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPà)	Hand Pe		
0.0	CLAY. S	DIL: Soft brown slightly sandy Sand is fine to medium. own slightly sandy slightly gra coarse. Gravel is subangular t	velly CLAY. Sand is		0.30	73.99								
	coarse. Firm to cobble of	fine to coarse. Grável is subăngulăr to súbrounded, fine to coarse. Firm to stiff grey sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.				73.54		AA128681	В	0.60				
1.0								AA128682	В	1.10				
2.0	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of medium strength dark grey argillaceous limestone with some brown grey CLAY. End of Trial Pit at 2.10m				2.00 2.10	72.29 72.19		AA128683	В	2.00				
3.0														
4.0														
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								Sample		²		neter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
2.0	CLAY Firm br fine to c coarse. Firm to cobble to suba	DIL: Soft brown slightly sandy slightly Sand is fine to medium. own slightly sandy slightly gravelly CL coarse. Gravel is subangular to subro stiff grey sandy gravelly silty CLAY w content. Sand is fine to coarse. Grave ngular, fine to coarse.	AY. Sand is bunded, fine to ith a low el is angular		0.30 0.50 2.00 2.10	73.85 73.65 72.15 72.05		AA128684 AA128685	В	0.80		
- 3.0 - 3.0 - 4.0 - 4.0 - 4.0 - 4.0 - 4.0 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	ility	Conditions										
Gene Pit te	eral Rema erminated	arks at 2.10mbgl on possible rockhead										

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LOG	GED BY S.Cunningham	CO-ORDINATI		703,4 730,6	72.68 E 11.33 N		Sheet 1 of 1 DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019					
CLIE ENGI	ENT INEER PM Group	GROUND LEV	'EL (m)	74.71			EXCAVA METHO		C T J	СВ		
								Samples	2	a)	meter	
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
0.0 - - - - - - - - - - - - - - - - - -	MADE GROUND comprised of brown sandy CLAY with wood and plastic fragments. San coarse. Gravel is subangular to rounded, fin Firm brown slightly sandy slightly gravelly CL fine to coarse. Gravel is subangular to subro coarse.		0.10	74.61		AA128689	В	0.60				
- - - - - 2.0 -	Firm to stiff grey sandy gravelly silty CLAY w cobble content. Sand is fine to coarse. Grave to subangular, fine to coarse.		2.50			AA128690 AA128691	В	2.40				
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								Samples	2	a	neter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium. Firm brown slightly sandy slightly gravelly ( fine to coarse. Gravel is subangular to sub coarse.	fine to medium.					AA113617	В	0.50		
2.0	Firm to stiff grey sandy gravelly silty CLAY cobble content. Sand is fine to coarse. Gra to subangular, fine to coarse.	m to stiff grey sandy gravelly silty CLAY with a low oble content. Sand is fine to coarse. Gravel is angular subangular, fine to coarse.		1.05	73.28		AA113618	В	1.50		
3.0	Possible weathered rockhead recovered as COBBLE and GRAVEL sized fragments of strength dark grey argillaceous limestone w brown grey CLAY. End of Trial Pit at 2.90m	ments of medium		2.50 2.90	71.83 71.43	<b>ب</b> (Slow)	AA113619	В	2.50		
4.0											
Seep Stabi Stabl	undwater Conditions bage at 2.50mbgl ility le eral Remarks										

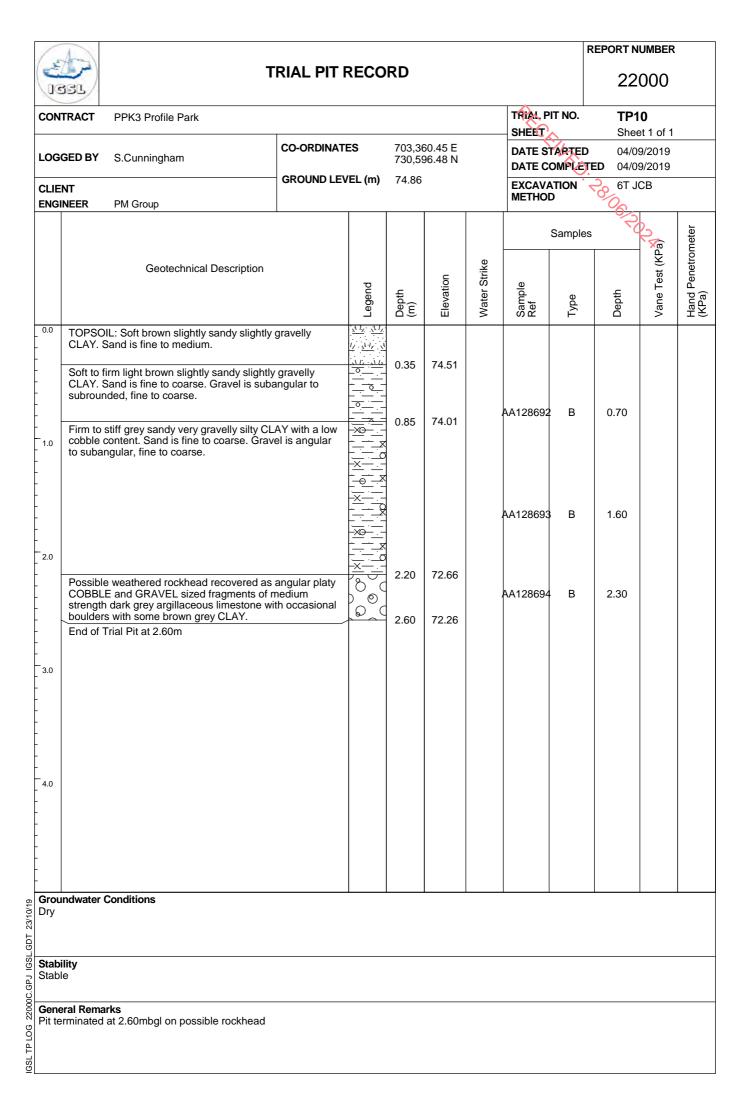
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00	BSL	I	<b>FRIAL PIT</b>	RECO	RD					22000					
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CLIE ENG	INEER	PM Group	GROUND LEV	/EL (m)	74.46			EXCAVA METHO	ATION D	Contraction of the second seco	СВ				
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		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)			
  	Firm to with a lo	IL: Soft brown slightly sandy slightly Sand is fine to medium. stiff grey brown sandy very gravelly by cobble content. Sand is fine to co ar to subangular, fine to coarse.	silty CLAY		0.35	74.11		AA128695	БВ	0.50					
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								Sample	es 🗸	(Pa)	omete			
	Geotechnical Description			Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)			
0.0	TOPSOIL: Soft brown slightly sandy slightly g					0,12			-					
- -	Soft to firm light brown slightly sandy slightly CLAY. Sand is fine to coarse. Gravel is suba	- <u> </u>	0.30	73.91										
-	subrounded, fine to coarse.			0.60	73.61		AA128697	в	0.60					
-	Firm grey brown sandy very gravelly silty CLAY with a medium cobble and low boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.													
1.0 -														
-							AA128698	вВ	1.40					
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CLIE ENGI	ENT INEER PM Group	GROUND LEV		74.50			EXCAVATION OF JCB					
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Samples Def L	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
0.0 - - - - - -	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium. Firm brown slightly sandy gravelly silty CLAY to coarse. Gravel is subangular to subround coarse.	Y. Sand is fine		0.40	0 74.10		AA128699	В	0.60			
- 1.0 	Firm grey brown sandy very gravelly silty CL medium cobble and low boulder content. Sa coarse. Gravel is angular to subangular, fine Firm to stiff grey brown very sandy very grav CLAY with a medium cobble and medium bo	nd is fine to e to coarse. velly silty pulder		1.05 1.50	73.45 73.00		AA128700		1.30			
- - 2.0 -	content. Sand is fine to coarse. Gravel is an subangular, fine to coarse. End of Trial Pit at 2.00m	guiar to	-	2.00	72.50		AA113616	В	1.70			
- - - - - - - - - - - - - - - -												
- - - - - - - - - - - - -												
Grou Dry Stab	undwater Conditions											
Stab												
	eral Remarks erminated at 2.00mbgl on possible rockhead											



1	A								F	REPORT N	UMBER		
C DO	SSL	1	RIAL PIT	RECO	RD					22000			
CON	TRACT	PPK3 Profile Park						TRIAL P		NO. TP11 Sheet 1 of			
LOG	GED BY	S.Cunningham	CO-ORDINAT		730,5	87.51 E 80.57 N		DATE S	9/2019 9/2019 9/2019				
CLIE ENG	NT INEER	PM Group	GROUND LE	VEL (m)	75.11			EXCAVA METHO		GT J	СВ		
									Samples		Pa	ometer	
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
0.0	TOPSO CLAY. S	IL: Soft brown slightly sandy slightly Sand is fine to medium.	gravelly	<u>11 11 11</u>									
- - -	Firm bro coarse. coarse.	own slightly sandy gravelly CLAY. Sa Gravel is subangular to subrounded	and is fine to I, fine to		0.35	74.76		AA113628	вВ	0.50			
	Firm to a low co	stiff grey brown slightly sandy grave bbble content. Sand is fine to mediui coarse, angular to subangular.	lly CLAY with n. Gravel is		0.90	74.21							
- - -					1.60	73.51		AA113629	) В	1.20			
-	End of 1	Trial Pit at 1.60m			1.00	70.01							
2.0													
-													
-													
3.0													
-													
-													
-													
4.0													
-													
-													
Grou	Indwater	Conditions											
Dry													
<b>Stab</b> Stab													
Gene Pit te	eral Rema	r <b>ks</b> at 1.60mbgl on possible rockhead											
Grou Dry Stab Stab Pit te													
6													

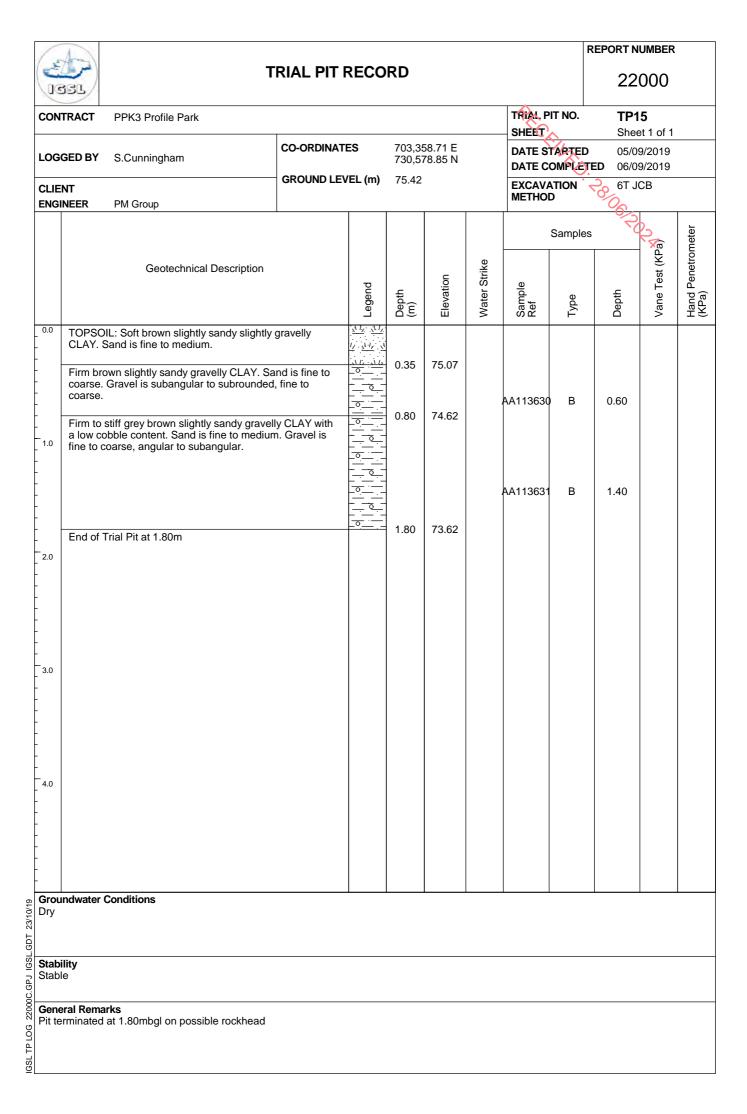


C De	ISL T	RIAL PIT I	RECO	RD					22	000	
CON	TRACT PPK3 Profile Park						TRIAL P	IT NO.	TP1	<b>2</b> et 1 of 1	
LOG CLIE	GED BY S.Cunningham	CO-ORDINAT			26.49 E 35.00 N		DATE ST DATE CO EXCAVA METHOD		04/0	9/2019 9/2019	
ENG	NEER PM Group							J	<u> </u>		
								Samples	;	ax	meter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSOIL: Soft brown slightly sandy slightly of CLAY. Sand is fine to medium.	gravelly	<u>11 71 11</u>								
	Firm grey brown slightly sandy slightly gravel a low cobble content. Sand is fine to coarse. subangular to subrounded, fine to coarse.	lly CLAY with Gravel is		0.40	74.17		AA113620	В	0.50		
1.0	Firm brown mottled grey/orange sandy grave with a low cobble content. Sand is fine to coa is angular to subangular, fine to coarse.	elly silty CLAY arse. Gravel	×   \$   	0.85	73.72		AA113621	В	1.00		
	Possible weathered rockhead recovered as a COBBLE and GRAVEL sized fragments of m strength dark grey argillaceous limestone wit boulders with some brown grey CLAY.	nedium		1.50 1.60	73.07 72.97						
2.0	End of Trial Pit at 1.60m										
3.0											
4.0											
Grou Dry	Indwater Conditions										
Stab Stab											
Gene Pit te	eral Remarks erminated at 1.60mbgl on possible rockhead										



JGSL		RIAL PIT F	RECO	RD					22	000	
CONTRACT	PPK3 Profile Park						TRIAL, P SHEET	IT NO.	TP1	3 et 1 of 1	
LOGGED BY	S.Cunningham	GROUND LEV		703,452.23 E 730,579.85 N 74.47			DATE STARTE		D 04/09/2019 TED 04/09/2019		
CLIENT ENGINEER	PM Group		EE (iii)	74.47			EXCAVA METHO		CO 6T J	СВ	
		1						Sample	s		leter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
CLAY.	OIL: Soft brown slightly sandy slightly Sand is fine to medium. rey mottled brown slightly sandy sligh LAY with a low cobble content. Sand e. Gravel is subangular to subrounded	tly gravelly is fine to		0.40	74.07						
1.0 Firm d conter	- ark grey very gravelly SILT with a low it. Gravel is angular to subangular, fir e consists of weak dark grey/black one/argillaceous limestone.	e to coarse.		1.20	73.27		AA113622	B	0.80		
- - - 2.0 - - - - - - - - - - - - - - - - - - -	ble weathered rockhead recovered as LE and GRAVEL sized fragments of v	angular platy		2.10 2.25	72.37 72.22		AA113623 AA113624		1.70 2.10		
grey a	rgillaceous limestone with occasional grey CLAY. Trial Pit at 2.25m	weak dark boulders with		2.20	12.22						
Dry	Conditions										
<b>Stability</b> Stable											
General Rem Pit terminate	<b>aarks</b> d at 2.25mbgl on possible rockhead										

W BO	T SSL T	RIAL PIT I	RECO	RD				F	REPORT N	umber 000	
CON	TRACT PPK3 Profile Park						TRIAL, P				
LOG	GED BY S.Cunningham	CO-ORDINAT	ES	703,4 ⁻ 730,5	79.37 E 77.90 N		- SHEET DATE S DATE C	et 1 of 1 9/2019 9/2019			
CLIE ENGI	NT INEER PM Group	GROUND LEV	/EL (m)	75.75			EXCAVA METHO		GT J	СВ	
								Samples	، ^ح رک	a	meter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 - - - - - - - - - - - - - - - -	MADE GROUND comprised of brown sandy CLAY. Sand is fine to coarse. Gravel is suba rounded, fine to coarse.	v very gravelly angular to	x Q, X,	1.10			AA113625	БВ	0.50		
1.0 - - - - - - - - - - - - - - - - - - -	Firm to stiff grey brown very sandy very grav CLAY with a medium cobble and medium bo content. Sand is fine to coarse. Gravel is an subangular, fine to coarse.	to stiff grey brown very sandy very gravelly silty Y with a medium cobble and medium boulder ent. Sand is fine to coarse. Gravel is angular to angular, fine to coarse.			74.65		AA113626 E	6 B	1.20		
- - - 3.0 - - - -	End of Trial Pit at 3.10m			3.10	72.65		AA113627	В	2.80		
- - - - - - - - - - -											
Grou	Indwater Conditions										
seep	page at 1.80mbgl										
Sligh	<b>ility</b> tly unstable at 2.0m										
Stabi	eral Remarks erminated at 3.10mbgl on possible rockhead										





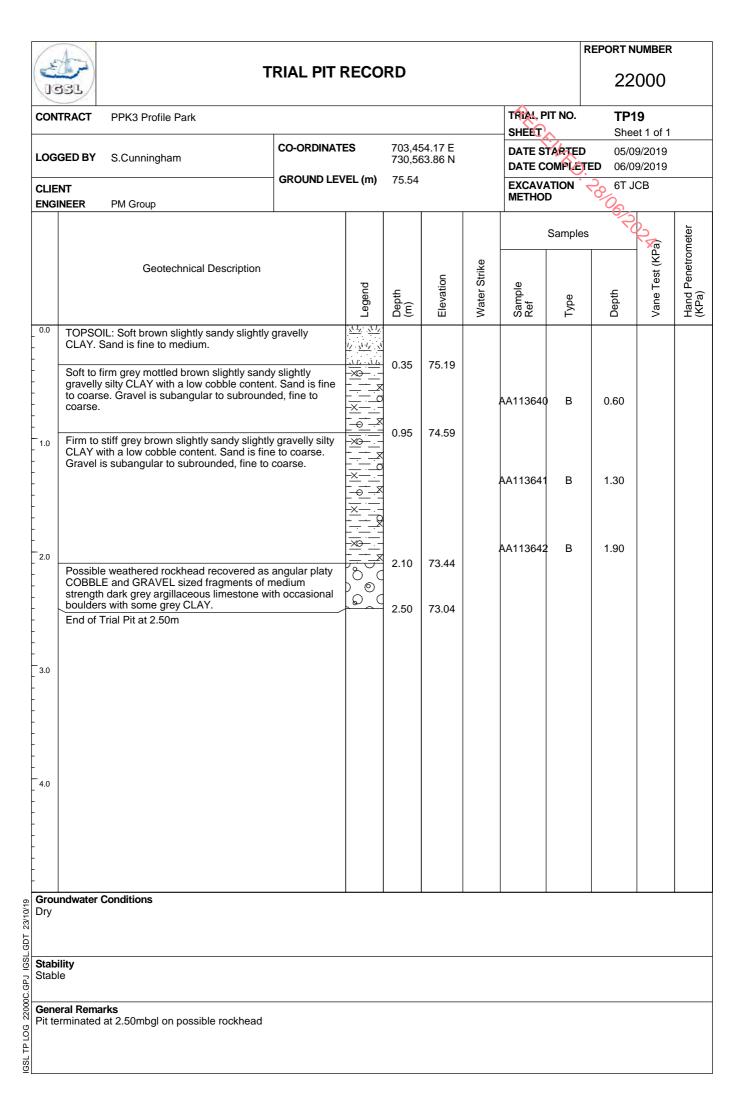
/UC	3SL/										000		
CON	TRACT	PPK3 Profile Park						TRIAL, PI	T NO.	<b>TP16</b> Sheet 1 of 1			
LOG	GED BY	S.Cunningham	CO-ORDINAT	ES		79.94 E 73.04 N		DATE ST	· 🔨	D 05/09/2019			
CLIE Engi	NT NEER	PM Group		/EL (m)	75.24			EXCAVA METHOD		6T JCB			
			I					5	Samples	2	2	leter	
		Geotechnical Descri	ption	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer	
0.0	CLAY. S Firm bro coarse. (	L: Soft brown slightly sandy s and is fine to medium. wn slightly sandy gravelly CL Gravel is subangular to subro	AY. Sand is fine to		0.30	74.94				0.50			
1.0	Coarse. Firm grey mottled brown/orange slightly sandy slightly gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to				0.95 1.15	74.29 74.09		AA113632 AA113633	B	0.50			
	\coarse. Firm to s a low co	e. Gravel is subangular to su stiff grey brown slightly sandy bble content. Sand is fine to barse, angular to subangular	gravelly CLAY with medium. Gravel is					AA113634	В	1.60			
2.0	COBBLE grey arg	weathered rockhead recove and GRAVEL sized fragme illaceous limestone with occa ey CLAY.	nts of weak dark		2.00 2.30	73.24 72.94		AA113635	В	2.10			
3.0	End of T	rial Pit at 2.30m											
4.0													
<b>Grou</b> Dry	ndwater C	Conditions											
<b>Stabi</b> Stabl	e												
	eral Reman rminated a	r <b>ks</b> at 2.30mbgl on possible rock	head										

1	And								R	EPORT N	UMBER	
0	3SL		TRIAL PIT	RECO	RD					22	000	
CON	ITRACT	PPK3 Profile Park						TRIAL P	IT NO.	TP17 Sheet 1 of 1		
LOG	GED BY	S.Cunningham	CO-ORDINA	TES	703,4 730,5	12.35 E 72.38 N		- SHEET DATE STARTED		05/0	9/2019	
CLIE	INT			EVEL (m)	75.26			EXCAVA METHO		06/09/2019 N 6T JCB		
ENG	INEER	PM Group								-06-27	2-	-
							0		Samples		КРа	romete
		Geotechnical Descriptic	on	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSO CLAY. S	IL: Soft brown slightly sandy slig Sand is fine to medium.	htly gravelly	$\frac{\sqrt{1}}{1} \frac{\sqrt{1}}{\sqrt{1}} \frac{\sqrt{1}}{\sqrt{1}}$								
	a low co	ey brown slightly sandy slightly g	arse. Gravel is		0.35	74.91		AA113636	В	0.50		
	_	ular to subrounded, fine to coars			0.80	74.46		AAT 13030	В	0.50		
1.0	coarse.	stiff grey brown slightly sandy sli ith a medium cobble content. Sa Gravel is subangular to subroun	and is fine to ided, fine to									
	coarse.								P	4.40		
	<b>F</b> . 1 . (7				1.70	73.56		AA113637	В	1.40		
2.0	End of I	Frial Pit at 1.70m										
2.0												
3.0												
4.0												
<b>Groι</b> Dry	undwater (	Conditions										
Stab	ility											
Stab												
Gene Pit te	<b>eral Rema</b> erminated	<b>rks</b> at 1.70mbgl on possible rockhea	ad									



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22000	

CON	TRACT	PPK3 Profile Park						TRIAL PI		Sheet 1 of 1 D 05/09/2019			
LOG	GED BY	S.Cunningham	CO-ORDINAT		730,56	30.27 E 57.43 N		DATE ST DATE CO					
CLIE ENGI	NT NEER	PM Group	GROUND LE	/EL (m)	75.30			EXCAVA METHOD		6T J	СВ		
									Samples	² 2	a)	meter	
		Geotechnical Description	on	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer	
0.0	TOPSO CLAY. S	IL: Soft brown slightly sandy slig Sand is fine to medium.	ghtly gravelly	$\frac{\underline{x}^{1} \underline{I}_{1}}{\underline{I}_{1}}  \underline{x}^{1} \underline{I}_{2}$									
	aravellv	ey mottled brown/orange slightly silty CLAY with a low cobble co e. Gravel is subangular to subro	ontent. Sand is fine	<pre></pre>	0.40	74.90		AA113638	в	0.60			
1.0	Firm gre a low co	m grey brown slightly sandy slightly gravelly CLAY wit w cobble content. Sand is fine to coarse. Gravel is bangular to subrounded, fine to coarse.			0.90 74	74.40			2	4.00			
	Possible weathered rockhead recovered as angular p		d ee ee eu deu eletu		1.40	73.90		AA113639	В	1.20			
	COBBLI strength boulders	a weathered rocknead recovered E and GRAVEL sized fragments dark grey argillaceous limestor s with some grey CLAY. Trial Pit at 1.60m	s of medium		1.60	73.70							
3.0													
4.0													
<b>Grou</b> Dry	nawater (	Conditions											
<b>Stab</b> Stab													
	eral Rema	<b>rks</b> at 1.60mbgl on possible rockhe	ad										





	ITRACT PPK3 Profile Park	CO-ORDINAT	.EG	702 44	94.01 E		SHEET Sheet 1 of 1						
.OG(	GED BY S.Hannon			730,52	26.34 N		DATE STARTED         04/09/2019           DATE COMPLETED         04/09/2019						
LIE	ENT INEER PM Group	GROUND LE	GROUND LEVEL (m) 76.45					EXCAVATION 7T Excavator METHOD					
								Samples	 ; ∣	(Pa)	ometer		
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer		
.0	TOPSOIL: Soft brown slightly sandy slightl CLAY. Sand is fine to medium. Firm greyish brown slightly sandy very gra			0.30	76.15								
0	with a medium cobble content. Sand is fine Gravels are angular to subrounded and fir Cobbles are subangular to subrounded.	e to medium.					AA113600	В	0.60				
	Firm grey black clayey slightly sandy grave is fine to coarse. Gravels are angular to su fine to coarse. Cobbles are subangular to	brounded and	→ × × × × × × × × × × × × × × × × × × ×	1.20	75.25		AA118551	В	1.30				
0	Firm to stiff grey black clayey slightly sand with a medium cobble content. Sand is fin Gravels are angular to subrounded and fir Cobbles are subangular to subrounded.	/ gravelly SILT to coarse. e to coarse.	<pre></pre>	1.90	74.55		AA118552	В	2.40				
-	End of Trial Pit at 2.80m		* × * 7 × <u>×</u> 0 <del>×</del> × × 7	2.80	73.65		AA 1 10004	В	2.40				
.0													
.0													
ory Try	undwater Conditions												
tabi tabl	i <b>lity</b> le												
	eral Remarks												



22000	
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UC	isl								22	000		
CONT	TRACT PPK3 Profile Park	1					TRIAL, PI SHEET	IT NO.	TP2 Shee			
LOGO	GED BY S.Hannon	ES	703,520.86 E 730,526.21 N			DATE ST						
CLIENT GROUND L							DATE CO	<u> </u>		9/2019 xcavato		
	NEER PM Group							)	·0/0	1		
							Samples			Hand Penetrometer (KPa)		
	Geotechnical Description				Elevation	ike				Depth Vane Test (KPa		
			Legend	Depth (m)		Water Strike	Sample Ref	e	Depth	ne Te:	nd Pe	
0.0				(n) De	Ше	Ma	Sai Rei	Type	De	Vai	Hai	
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium.	gravelly	<u>112 112</u> 12 212 11									
-	Soft to firm greyish brown slightly sandy very gravelly silty			0.40	76.02							
	CLAY with a low cobble content. Gravels an subrounded and fine to coarse. Cobbles are to subrounded.	e angular to e subangular					AA118553	В	0.60			
1.0												
					74.82		AA118555	В	1.40			
	Firm to stiff grey black clayey slightly sandy gravelly SILT with a medium cobble content. Sand is fine to coarse. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.			1.60								
							AA118556	В	1.80			
2.0												
			× × × 0									
	End of Trial Pit at 2.60m		· ×. * × <del>o ×</del> *	2.60	73.82							
3.0												
4.0												
Grou Dry	ndwater Conditions		<u> </u>			<u> </u>			I			
JIY												
Stabi	lity											
Stabl	e											
Gene	ral Remarks rminated at 2.60mbgl on possible rockhead											
	חווויומוכע מו ב.סטרווטעו טרו אישטאטוש וטכאוופאט											

e de	TRIAL PIT RECORD									REPORT NUMBER			
CON	ITRACT PPK3 Profile Park									<b>TP22</b> Sheet 1 of 1			
LOG	LOGGED BY S.Hannon		CO-ORDINATES 703,546.16 E 730,526.70 N				- SHEET DATE S DATE C		ED 04/09/2019				
			GROUND LEVEL (m)			75.90			, , , , , , , , , , , , , , , , , , ,	7T Excavator			
	Geotechnical Description		Legend	oth	Elevation	Water Strike	Sample Ref	Sample		Vane Test (KPa)	Hand Penetrometer (KPa)		
0.0	TOPSOIL: Soft brown slightly sandy slightly	y gravelly		Depth (m)	Ē	Wai	Sar Ref	Type	Depth	Var	(KP KP		
	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Firm greyish brown slightly sandy very gravelly silty C with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangu to subrounded.			0.40	75.50		AA118557	В	0.60				
- - - -	End of Trial Pit at 1.70m			1.70	74.20		AA118558	В	1.40				
2.0   													
- 3.0 													
- - - - - - - - - - -													
Brou Dry	undwater Conditions		<u> </u>		I					1	I		
Stab													
	eral Remarks erminated at 1.70mbgl on possible rockhead												

W.	TRIAL PIT RECORD									REPORT NUMBER		
CON	CONTRACT PPK3 Profile Park TRIAL PIT NO.											
LOG	GED BY S.Hannon	<b>CO-ORDINATES</b> 703,572.97 E 730,528.97 N					DATE S					
CLIE ENGI	NT NEER PM Group	<b>GROUND LEVEL (m)</b> 76.10					EXCAVA METHO	ATION [°] D	7T Excavator			
								Sample	s R	(Pa)	ometer	
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
0.0 - -	TOPSOIL: Soft brown slightly sandy slightly of CLAY. Sand is fine to medium.	gravelly	<u>11</u> <u>11</u> <u>11</u>									
- - -	Firm to stiff brown sandy gravelly silty CLAY. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.			0.40	75.70		AA118559	B	0.60			
1.0	End of Trial Pit at 1.20m			1.20	74.90							
- - - - - - - - - - - - - - - - - - -												
- - - - - - - - - - - - - - - - -												
<b>Grou</b> Dry	ndwater Conditions		<u>I</u>		<u> </u>	L	1			1		
<b>Stab</b> Stab												
Stable Stable Pit te	eral Remarks rminated at 1.20mbgl on possible rockhead											

/										REPORT N	UMBER		
C.C.C.	SSL	т	TRIAL PIT RECORD								22000		
CON	TRACT	PPK3 Profile Park		TR						TP2			
LOGGED BY S.Hannon CLIENT ENGINEER PM Group			CO-ORDINATES GROUND LEVEL (m)		703,594.86 E 730,520.98 N 76.53			- SHEET DATE ST DATE CO					
								EXCAVA METHO	TION	<u> </u>		r	
									Sample	is v	a)	neter	
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
0.0 - -	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Firm brown slightly sandy gravelly silty CLAY with a medium cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular			<u>11</u> <u>11</u> <u>11</u>				AA118575	БВ				
- - -					0.40	76.13				0.50			
- - 1.0	Firm gr	o subrounded. irm greyish brown very gravelly silty CLAY. Gravels are ngular to subrounded and fine to coarse.			0.90	75.63							
- - -								AA118576	В	1.30			
- - -	End of	Trial Pit at 1.80m			1.80	74.73		AA118577	В	1.80			
2.0 													
- - -													
- 3.0 -													
- - -													
- - - 4.0													
- - -													
- - -													
<b>Groι</b> Dry	undwater	Conditions		1	<u> </u>	<u>.</u>	<u> </u>	<u> </u>		1	L	<u> </u>	
<b>Stab</b> Stab													
	eral Rema erminated	r <b>ks</b> at 1.80mbgl on possible rockhead											

IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19



	BSL		RECO	RD					22	000	
CON	ITRACT PPK3 Profile Park						TRIAL, PI SHEET	T NO.	TP2	2 <b>5</b> et 1 of 1	
	GED BY S.Hannon	CO-ORDINA		703,5 730,49 75.21	14.47 E 96.74 N		DATE ST DATE CO EXCAVA	MPLET	04/0 ED 04/0	9/2019 9/2019 9/2019 Excavator	
CLIE ENG	:NT INEER PM Group						METHOD		.80	Acavaloi	
							5	Samples	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Pa	ometer
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium. Firm brown slightly sandy very gravelly silty ( low cobble content. Gravels are angular to s and fine to coarse. Cobbles are subangular subrounded.	CLAY with a ubrounded		0.35	74.86		AA118565	В	0.60		
	Stiff greyish brown very gravelly silty CLAY v cobble content. Gravels are angular to subro fine to coarse. Cobbles are subangular to su	with a low bunded and ubrounded.	×	1.60	73.61		AA118566 AA118567	В	1.40		
2.0	End of Trial Pit at 2.20m		×	2.20	73.01						
3.0											
4.0											
Grou Dry	undwater Conditions										
Stab Stab											
Gene Pit te	eral Remarks erminated at 2.20mbgl on possible rockhead										

1	1									REPORT N	UMBER	
	3SL		22	000								
CON	TRACT	PPK3 Profile Park						TRIAL P		TP2		
LOG	GED BY	S.Hannon	CO-ORDINAT	ES	703,5 730,4	21.98 E 95.68 N		- SHEET DATE S DATE C	TARTE	<b>D</b> 04/0	et 1 of 1 9/2019 9/2019	
CLIE	NT			VEL (m)	75.19			EXCAV/ METHO	ATION	•	xcavato	r
ENG	INEER	PM Group							0	-0 <u>6</u> -		
							0		Sample	es 🔽	КРа	rometer
		Geotechnical Descriptior	1	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSO CLAY. S	IL: Soft brown slightly sandy sligh Sand is fine to medium.	tly gravelly									
-	angular	eyish brown slightly sandy very gra ow cobble and low boulder conter to subrounded and fine to coarse ular to subrounded.	avelly silty CLAY nt. Gravels are a. Cobbles are		0.40	74.79		AA118564	4 В	0.60		
1.0 												
-	End of	Trial Pit at 1.30m			1.30	73.89						
- 2.0												
-												
- - -												
3.0												
-												
4.0												
-												
-												
Grou	Indwater	Conditions										
Grou Dry Stab Stab Pit te												
Stab Stab												
<b>Gene</b> Pit te	eral Rema erminated	r <b>ks</b> at 1.30mbgl on possible rockhead	d									

1	1									<b>REPORT N</b>	UMBER	
W DO	BSL	I	RIAL PIT	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL, P		TP2		
LOG	GED BY	S.Hannon	CO-ORDINAT	ËS	703,54 730,4	48.43 E 91.52 N		- SHEET DATE S DATE C	TARTE	D 04/0	et 1 of 1 9/2019 9/2019	
CLIE	NT		GROUND LEV	/EL (m)	75.31			EXCAVA METHO		•	xcavato	r
ENG	INEER	PM Group								- ⁷ 05-		
									Sample	es 🔽	(Pa)	ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	70500				۳Ę ۳	Ĕ	Ň	Sa Re	Тy	De	Va	ΞŻ
-	CLAY. S	IL: Soft brown slightly sandy slightly Sand is fine to medium.	gravelly	$\frac{\underline{x}^{1} \underline{1}_{2}}{\underline{x}^{1} \underline{1}_{2}} \frac{\underline{x}^{1} \underline{1}_{2}}{\underline{x}^{1} \underline{1}_{2}}$ $\frac{\underline{1}_{2}}{\underline{x}^{1} \underline{1}_{2}} \frac{\underline{x}^{1} \underline{1}_{2}}{\underline{x}^{1} \underline{1}_{2}}$								
- - - -	with a lo	elly silty CLAY ular to e subangular	- <u>X0</u> - - <u>X0</u> - X X 0 - <u>X</u>	0.50	74.81		AA118562	2 В	0.50			
1.0 	End of 7	Frial Pit at 1.30m			1.30	74.01		AA118563	вВ	1.30		
2.0												
- - -												
- - -												
- - - 4.0												
-												
- - -												
<b>Grou</b> Dry	Indwater (	Conditions										
<b>Stab</b> Stab												
Grou Dry Stab Stab Pit te	eral Rema erminated	rks at 1.30mbgl on possible rockhead										



CON	TRACT PPK3 Profile Park						TRIAL PI		TP2 Shee	8 et 1 of 1	
LOG	GED BY S.Hannon	CO-ORDINAT		730,49	75.85 E 93.39 N		DATE ST DATE CO			9/2019 9/2019	
CLIE ENGI	NT NEER PM Group	GROUND LE	/EL (m)	75.20			EXCAVA METHOD		7TE	xcavato	•
		1						Samples	°??		neter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium.	gravelly	<u>1/ 1/ 1/ 1/</u>								
	Soft to firm greyish brown slightly sandy very CLAY with a low cobble content. Sand is find Gravels are angular to subrounded and fine Cobbles are subangular to subrounded.	e to medium.		0.40	74.80		AA118560	В	0.60		
1.0	Firm to stiff brown sandy gravelly silty CLAY angular to subrounded and fine to coarse. C subangular to subrounded.	. Gravels are cobbles are		1.00	74.20						
	End of Trial Pit at 1.90m			1.90	73.30		AA118561	В	1.40		
3.0											
4.0											
Grou	ndwater Conditions										
Dry											
<b>Stab</b> i Stabl	ility e										
	eral Remarks rminated at 1.90mbgl on possible rockhead										

1	1									REPORT N	UMBER	
	TRIAL PIT RECORD     22000       CONTRACT     PPK3 Profile Park       TRIAL PIT NO.     TP29 Sheet 1 of 1											
CON	TRACT	PPK3 Profile Park										
LOG	GED BY	S.Hannon	CO-ORDINAT		703,59 730,48	90.30 E 32.95 N		DATE S	TARTEL	05/0	9/2019 9/2019	
CLIE	NT NEER	PM Group	GROUND LEV	/EL (m)	75.24			EXCAVA METHO	ATION D	7T E	xcavato	r
			1						Sample	es	a)	meter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 	TOPSO CLAY. S	IL: Soft brown slightly sandy slightly Sand is fine to medium.	gravelly	<u>x1, x1,</u> <u>1, x1, x</u>								
-	Firm bro medium subrour to subro	own slightly sandy gravelly silty CLA ocobble content. Gravels are angula oded and fine to coarse. Cobbles are ounded.	Y with a r to e subangular		0.40	74.84		AA118578	в В	0.60		
- 1.0 	End of ⁻	Frial Pit at 1.40m			1.40	73.84		AA118579	) В	1.40		
-												
2.0												
- - -												
- 3.0 -												
-												
- - 4.0 -												
-												
Stabl	indwater (	Conditions										
Stabi												
Gene Pit te	eral Rema	rks at 1.40mbgl on possible rockhead										
COL IL FO												



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OBY S.Hannon	CO-ORDINAT					TRIAL PI	T NO.			
<b>DBY</b> S.Hannon	CO-ORDINAT	CO-ORDINATES 703,509.62 E 730,484.85 N				DATE START		Sheet 1 of 1		
						DATE ST DATE CO			9/2019 9/2019	
ER PM Group	GROUND LEV	/EL (m)	75.39						xcavator	
							Samples	J.C.	a	neter
Geotechnical Description	on	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KP	Hand Penetrometer
LAY. Sand is fine to medium.			0.40	74.99						
w cobble content. Gravels are angular	r to subrounded					AA118568	В	0.60		
bble content. Gravels are angular to s	subrounded and		1.20	74.19		AA118569	В	1.40		
rm to stiff grey black clayey slightly sa AY with a medium cobble content. Sa arse. Gravels are angular to subroun	ndy gravelly silty and is fine to ded and fine to		1.70 1.90	73.69 73.49			В	1.90		
vater Conditions										
	Geotechnical Description DPSOIL: Soft brown slightly sandy slig AY. Sand is fine to medium. Improve slightly sandy very gravelly sint of the to coarse. Cobbles are subanged brounded. Improve slightly sandy very gravelly sint bble content. Gravels are angular to see to coarse. Cobbles are subangular improve to subround a medium cobble content. St arse. Gravels are angular to subround arse. Cobbles are subangular to subround arse. Cobbles are su	R       PM Group         Geotechnical Description         PFSOL: Soft brown slightly sandy slightly gravelly         AY. Sand is fine to medium.         m brown slightly sandy very gravelly silty CLAY with a wobble content. Gravels are angular to subrounded d fine to coarse. Cobbles are subangular to subrounded and e to coarse. Cobbles are subangular to subrounded and e to coarse. Cobbles are subangular to subrounded.         m to stiff grey black clayey slightly sandy gravelly silty AY with a needium cobble content. Sand is fine to arse. Cobbles are subangular to subrounded and fine to arse. Cobbles are subangular to subrounded.         M of Trial Pit at 1.90m         varter Conditions	R       PM Group         Geotechnical Description       Bog         DPSOIL: Soft brown slightly sandy slightly gravelly AY. Sand is fine to medium.       Image: Comparison of the state and plant to subrounded to be content. Gravels are subangular to subrounded and e to coarse. Cobbles are subangular to subrounded and e to coarse. Cobbles are subangular to subrounded and e to coarse. Cobbles are subangular to subrounded.         Im to stiff grey black clayey slightly sandy gravelly slity AY with a medium cobble content. Sand is fine to arse. Cobbles are subangular to subrounded.         Im to stiff grey black clayey slightly sandy gravelly slity AY with a medium cobble content. Sand is fine to to arse. Cobbles are subangular to subrounded and fine to arse. Cobbles are subangular to subrounded.         Im to stiff grey black clayey slightly sandy gravelly slity AY with a medium cobble content. Sand is fine to to arse. Cobbles are subangular to subrounded and fine to arse. Cobbles are subangular to subrounded.         Id of Trial Pit at 1.90m         vater Conditions	R       PM Group         Geotechnical Description       geotechnical Description         DPSOIL: Soft brown slightly sandy slightly gravelly       44.44         AY. Sand is fine to medium.       0.40         m brown slightly sandy very gravelly silty CLAY with a low wobble content. Gravels are angular to subrounded and fine to carse. Cobbles are subangular to subrounded.       1.20         m to stiff grey black clayey slightly sandy gravelly silty AY with a low area. Gravels are angular to subrounded.       1.70         m to stiff grey black clayey slightly sandy gravelly silty area. Gravels are angular to subrounded.       1.70         M to stiff grey black clayey slightly sandy gravelly silty area. Gravels are angular to subrounded.       1.70         AY with a medium cobble content. Sand is fine to area. Cobbles are subangular to subrounded.       1.90         M of Trial Pit at 1.90m       1.80         water Conditions       1.80	Bit     PM Group       Geotechnical Description     geog       DPSOIL: Soft brown slightly sandy slightly gravelly     W W W W W W W W W W W W W W W W W W W	Bit       PM Group         Geotechnical Description       gg g g g g g g g g g g g g g g g g g g	B     PM Group       Geotechnical Description     g       g     g       AV. Sand is fine to medium.       m brown slightly sandy very gravelly slity CLAY with a tow souble content. Gravels are angular to subrounded and the to coarse. Cobbles are subangular to subrounded and the to carse. Cobbles are subangular to subrounded and fine to area. Cravels are angular to subrounded.       m to stiff grey black clayey slightly sandy gravelly slity CLAY with a low serve. Cobbles are subangular to subrounded and fine to area. Cravels are angular to subrounded and fine to area. Cravels are angular to subrounded and fine to area. Cravels are angular to subrounded and fine to area. Cravels are angular to subrounded and fine to area. Cravels are angular to subrounded and fine to area. Cravels are angular to subrounded and fine to area. Cravels are angular to subrounded.       ad of Trial Pit at 1.90m	B     PM Group     Samples       Geotechnical Description     Image: Samples     Samples       Image: Samples     Image: Samples     Image: Samples </td <td>R       PM Group       Samples         Geotechnical Description       9 gravely gravely gravely       Samples         PPSOIL: Soft brown slightly sandy slightly gravelly AY. Sand is fine to medium.       0.40       74.99       At118568       B       0.60         more registration of the to orace. Cobbles are subangular to subrounded the to coarse. Cobbles are subangular to subrounded and to costse. Cobbles are subangular to subrounded.       0.40       74.99       At118568       B       0.60         more set cobbles are subangular to subrounded.       To off ravels are angular to subrounded.       <thto angular="" are="" off="" ravels="" subrounded.<="" t<="" td="" to=""><td>B     PM Group     Samples       Geotechnical Description     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     <t< td=""></t<></td></thto></td>	R       PM Group       Samples         Geotechnical Description       9 gravely gravely gravely       Samples         PPSOIL: Soft brown slightly sandy slightly gravelly AY. Sand is fine to medium.       0.40       74.99       At118568       B       0.60         more registration of the to orace. Cobbles are subangular to subrounded the to coarse. Cobbles are subangular to subrounded and to costse. Cobbles are subangular to subrounded.       0.40       74.99       At118568       B       0.60         more set cobbles are subangular to subrounded.       To off ravels are angular to subrounded. <thto angular="" are="" off="" ravels="" subrounded.<="" t<="" td="" to=""><td>B     PM Group     Samples       Geotechnical Description     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     <t< td=""></t<></td></thto>	B     PM Group     Samples       Geotechnical Description     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g     g <t< td=""></t<>

W B	J- BSL	т	RIAL PIT	RECO	RD					REPORT N	umber 000	
CON	TRACT	PPK3 Profile Park						TRIAL, P	IT NO.	TP3		
LOG	GED BY	S.Hannon	CO-ORDINAT		703,52 730,48	28.72 E 82.40 N		- SHEET DATE S DATE C		<b>)</b> 04/09	et 1 of 1 9/2019 9/2019	
CLIE ENGI	NT INEER	PM Group	GROUND LEV	/EL (m)	75.48			EXCAVA METHO	ATION D	₹ <mark>,</mark> 7T E	xcavato	r
									Sample	es 2	Pay	ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 - -	TOPSC CLAY.	DIL: Soft brown slightly sandy slightly Sand is fine to medium.	gravelly	<u>112 112</u>	0.40	75.00						
-	Firm brown mottled grey/orange slightly sandy very gravelly silty CLAY with a low cobble content. Gravels a angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.				0.40	75.08		AA118571	В	0.70		
1.0	1.0				1.20	74.28			_			
- - - - - - - - - - - - - - - - - - -	3.0											
Dry	Indwater	Conditions										
Stabi	<b>ility</b> le											
Stabl	eral Rema erminated	arks I at 1.20mbgl on possible rockhead										

1	1									REPORT N	UMBER	
	TRIAL PIT RECORD     22000       ONTRACT     PPK3 Profile Park     TRIAL PIT NO.     TP32       Sheet 1 of 1     Sheet 1 of 1											
CON	TRACT	PPK3 Profile Park										
LOG	GED BY	S.Hannon	CO-ORDINAT		730,47	49.05 E 79.26 N		DATE S	TARTEI	<b>D</b> 05/0	9/2019 9/2019 9/2019	
	NT INEER	PM Group	GROUND LEV	VEL (m)	75.35			EXCAV/ METHO		TT E	xcavato	r
LING									Sample	es v	a	neter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 - - - - -	CLAY. S	IL: Soft brown slightly sandy slightly Sand is fine to medium. own slightly sandy gravelly silty CLA content. Gravels are angular to subr coarse. Cobbles are subangular to so	Y with a low ounded and		0.40	74.95		AA118572	2 B	0.50		
- - 1.0 - - -	End of ⁻	Trial Pit at 1.30m			1.30	74.05		AA118573	в	1.20		
- - - - - - -	2.0											
- - 3.0 - - -												
- - - 4.0 - - - -												
Grou Dry	Indwater	Conditions										
<b>Stab</b> i												
Stabi Stabi Stabi	eral Rema erminated	<b>irks</b> at 1.30mbgl on possible rockhead										

W OC	AP BSL		TRIAL PIT	RECO	RD					REPORT N 22	umber 000	
CON	TRACT	PPK3 Profile Park						TRIAL P		TP3		
LOG	GED BY	S.Hannon	CO-ORDINA		703,5 730,4	73.83 E 79.28 N		- SHEET DATE S DATE C	TARTED	05/0	et 1 of 1 9/2019 9/2019	
CLIE ENG	NT	PM Group	GROUND LE	VEL (m)	75.31			EXCAVA METHO	ATION D		xcavato	r
									Sample	s ~?	a	ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	Firm bro	IL: Soft brown slightly sandy slightl Sand is fine to medium. own slightly sandy gravelly silty CL/	Y with a low		0.40	74.91						
-	cobble fine to c	content. Gravels are angular to sub coarse. Cobbles are subangular to s Trial Pit at 0.75m	rounded and subrounded.	X	0.75	74.56		AA118574	В	0.60		
1.0 - -												
2.0												
- - - - 3.0												
- - 4.0												
- - - -												
Grou	Indwater	Conditions										
Dry												
<b>Stab</b> Stab												
Stab Bit te	eral Rema erminated	<b>rks</b> at 0.75mbgl on possible rockhead										

J.			TRIAL PIT	RECO	RD					REPORT N	IUMBER	
CON	ITRACT	PPK3 Profile Park						TRIAL, P SHEET	IT NO.	TP3	<b>34</b> et 1 of 1	
LOG	GED BY	S.Hannon	CO-ORDINA	TES	703,5 ⁻ 730,4	12.17 E 56.37 N		DATE S		<b>D</b> 05/0	9/2019	
CLIE ENG	INEER	PM Group	GROUND LE	EVEL (m)	75.98			EXCAVA METHO		•	Excavato	r
		Geotechnical Descrip	ation				ke		Sample	es	(KPa)	etrometer
				Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
- ^{0.0} -		DIL: Soft brown slightly sandy s Sand is fine to medium.			0.30	75.68						
-	subang	own slightly sandy gravelly silty to subrounded and fine to coa ular to subrounded.			0.80	75.18		AA118584	В	0.50		
- - 1.0 -	angular	ey mottled brown gravelly silty to subrounded and fine to coa ular to subrounded.	CLAY. Gravels are arse. Cobbles are		1.30	74.68		AA118585	в	1.10		
		Trial Pit at 1.30m										
- 2.0 - - - -												
- - - - - -												
-												
- 4.0 - - - -												
- - -												
<b>Groι</b> Dry	undwater	Conditions		_			_	_	_	_	_	
<b>Stab</b> Stab												
	eral Rema erminated	<b>arks</b> at 1.30mbgl on possible rockh	nead									

1	And												
C DO	BSL		Т	RIAL PIT I	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park							TRIAL P		TP3		
LOG	GED BY	S.Hannon		CO-ORDINAT		703,52 730,4	22.31 E 52.58 N		DATE S	TARTED	05/0	et 1 of 1 9/2019 9/2019	
CLIE	INEER	PM Group		GROUND LE	/EL (m)	76.23			EXCAVA METHO			xcavato	
										Samples	°~?	a	neter
		Geotechnical Des	scription		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0		IL: Soft brown slightly sand Sand is fine to medium. stiff brown slightly sandy g				0.40	75.83						
	medium subrour to subro	stiff brown slightly sandy g n cobble content. Gravels a nded and fine to coarse. Co bunded.	ire angular obbles are	⁻ to subangular					AA118580	) B	0.60		
- - - -	End of	Trial Pit at 1.30m			 	1.30	74.93		AA118581	В	1.30		
2.0													
- - -													
- - - - - -													
- - - -													
- 4.0 													
Gro	Indwater	Conditions											
Dry													
Stab Stab													
	eral Rema erminated	<b>irks</b> at 1.30mbgl on possible ro	ockhead										
1 2 2 2													

- Maria	AR		TRIAL PIT	RFCO	RD				R	EPORT N		
De	BSL									22	000	
CON	TRACT	PPK3 Profile Park						TRIAL P		TP3	6 et 1 of 1	
LOG	GED BY	S.Hannon	CO-ORDINA		703,54 730,44	46.80 E 49.54 N		DATE S	· .	05/0	9/2019 9/2019	
CLIE ENG	NT INEER	PM Group	GROUND LE	VEL (m)	75.93			EXCAVA METHO	TION		xcavator	r
			·						Samples	No.	a	neter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 	CLAY. S	IL: Soft brown slightly sandy slight Sand is fine to medium.		$\frac{\underline{x}^{1}\underline{y}}{\underline{y}} \frac{\underline{x}^{1}\underline{y}}{\underline{x}}$	0.50	75.43						
- - - - 1.0	cobble	ey brown slightly sandy gravelly CL content. Gravels are angular to sub coarse. Cobbles are subangular to	prounded and		0.00	10.40		AA118582	В	0.60		
- - - -	End of ⁻	Trial Pit at 1.60m			1.60	74.33		AA118583	В	1.30		
- 2.0 - -												
- - - - 3.0												
- - - -												
- 4.0 - -												
- - - -	Indwater	Conditions										
Dry		Gonditions										
Stab Stab												
<b>Gene</b> Pit te	eral Rema	<b>irks</b> at 1.60mbgl on possible rockhead										
Grou Dry Stab Stab Pit te												

1	1								<b>REPORT N</b>	UMBER	
	T BSL	RIAL PIT	RECO	RD					22	000	
CON	TRACT PPK3 Profile Park						TRIAL P		TP3 Shee	7 et 1 of 1	
LOG	GED BY S.Hannon	CO-ORDINAT		730,44	79.97 E 47.99 N		DATE S	TARTE	D 05/09	9/2019 9/2019	
	INT INEER PM Group	GROUND LEV	/EL (m)	75.85			EXCAVA METHO	ATION D	₹ <mark>∂</mark> 7TE	xcavato	r
		1						Sample	es 2	a	neter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium.			0.40	75.45						
- - -	Firm to stiff brown slightly sandy gravelly silt medium cobble content. Gravels are angula subrounded and fine to coarse. Cobbles are to subrounded.	y CLAY with a r to subangular		0.40	10.40		AA118586	В	0.50		
1.0							AA118587	В	1.00		
-			×   ×   								
2.0	End of Trial Pit at 2.00m		X  	2.00	73.85						
-											
-											
-											
4.0											
- - -											
-											
Group         Stab           010         50000.05h1         1620.03h1           010         550000.05h1         6600000000000000000000000000000000000	Indwater Conditions										
Stab											
Gene Dit te	eral Remarks erminated at 2.00mbgl on possible rockhead										
GSL TP LO											

W DO	A-	Т	RIAL PIT I	RECO	RD				R	EPORT N	umber 000	
	TRACT	PPK3 Profile Park						TRIAL, P	IT NO.	TP3		
LOG	GED BY	S.Hannon	CO-ORDINAT	ES	703,60 730,45	01.64 E 57.89 N		- SHEET DATE S DATE C	TARTED	05/09	et 1 of 1 9/2019 9/2019	
CLIE ENG	NT	PM Group	GROUND LEV	/EL (m)	75.74	I	1	EXCAVA METHO			xcavato	
									Samples	2	Pa	ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 - -	TOPSO CLAY. S	IL: Soft brown slightly sandy slightly Sand is fine to medium.	gravelly	<u>11. 11.</u> <u>11. 11. 11.</u> 11. 11. 11.								
- - - - - - - - - - - -	Firm to medium subrour to subro	stiff brown slightly sandy gravelly silt a cobble content. Gravels are angula aded and fine to coarse. Cobbles are bunded.	y CLAY with a r to e subangular		0.40	75.34		AA118589	В	0.70		
- - - -	End of ⁻	Trial Pit at 1.35m			1.35	74.39						
- - - - - - - -												
- - - - - - - - -												
- - - - - - - -												
Grou	Indwater	Conditions										
Stab												
Stab	le											
Stab	eral Rema erminated	arks at 1.35mbgl on possible rockhead										

1	And											
	J.J. JSL	RIAL PIT I	RECO	RD					22	000		
CON	ITRACT PPK3 Profile Park						TRIAL P		TP3	<b>9</b> et 1 of 1		
LOG	GED BY S.Cunningham	CO-ORDINAT		730,44	78.56 E 44.64 N		DATE S	TARTEI	D 28/08	3/2019 3/2019		
CLIE	ENT INEER PM Group	GROUND LEV	/EL (m)	79.03			EXCAVA METHO		C II	СВ		
		L						Sample	es et al	a)	meter	
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
_ 0.0 _ _ _ _ _ _ _	MADE GROUND comprised of compact grey GRAVEL. Sand is fine to coarse. Gravel is su subrounded, fine to coarse. Firm grey brown sandy gravelly CLAY with a content. Sand is fine to coarse. Gravel is and subangular, fine to medium.	ubangular to		0.45	78.58		AA128654	в	0.40			
2.0	Possible highly weathered rockhead recover COBBLE and GRAVEL sized fragments of m strength grey argillaceous limestone with sor grey CLAY. End of Trial Pit at 1.60m	nedium		1.50 1.60	77.53 77.43		AA128655	БВ	1.10			
- - - - - - - - - - - - -												
- - - - - - - - -												
Grou Dry	undwater Conditions								1		ı	
So Stab												
	eral Remarks erminated at 1.60mbgl on possible rockhead											

1	1									REPORT N	UMBER	
W DO	BSL		TRIAL PIT	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL P		TP4		
LOG	GED BY	S.Cunningham	CO-ORDINAT		703,1 730,4	09.76 E 26.72 N		DATE S	ARTE	<b>D</b> 28/0	et 1 of 1 8/2019 8/2019	
CLIE			GROUND LE	VEL (m)	79.95			EXCAVA METHO		6Т Ј	СВ	
ENG	INEER	PM Group								- <u></u>		
									Sample	es `C	ax a	Hand Penetrometer (KPa)
		Geotechnical Description				_	rike				st (KF	netro
				Legend	oth	Elevation	Water Strike	Sample Ref	ē	pt	Vane Test (KPa)	a) Pe
				Leç	Depth (m)	Ele	Wa	Sar Ref	Type	Depth	Var	Кр Таг
0.0	MADE ( GRAVE	GROUND comprised of compact g L. Sand is fine to coarse. Gravel is	rey sandy s subangular to									
-		ided, fine to coarse.			0.45	79.50		AA128658	В	0.40		
	Firm to	stiff grey brown sandy gravelly silt ble content. Sand is fine to coarse to subangular, fine to medium.	y CLAY with a . Gravel is	- <u>×</u> o x						0.10		
F		eotextile sheeting			5							
1.0					• - -							
E								AA128659	В	1.30		
-												
-												
2.0	End of ⁻	Frial Pit at 1.90m			1.90	78.05						
-												
-												
-												
3.0												
-												
-												
4.0												
-												
ŀ												
Grou	Indwater	Conditions										
Grou Dry Stab Stab Pit te												
Stab Stab												
Gene Pit te	eral Rema	<b>rks</b> at 1.90mbgl on possible rockhead	1									
			-									

en en	to	г	RIAL PIT I	RECO	RD					REPORT N	umber 000	
1	BSL											
CON	TRACT	PPK3 Profile Park	1					TRIAL, P - SHEET		TP4 Shee	- <b>1</b> et 1 of 1	
LOG	GED BY	S.Cunningham			730,42	66.57 E 26.13 N		DATE S			8/2019 8/2019	
CLIE ENGI	NT NEER	PM Group	GROUND LEV	/EL (M)	79.67			EXCAVA METHOI	ATION [*] D	Cor of the second secon	СВ	
									Sample	s R	(Pa)	ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 - - -	GRAVE	GROUND comprised of compact gre L. Sand is fine to coarse. Gravel is s nded, fine to coarse.	ey sandy subangular to		0.45	79.22		AA128651	в	0.30		
-	clayey ( fragmer subrour	GROUND comprised of compact gre GRAVEL with occasional wood and p nts. Sand is fine to coarse. Gravel is nded, fine to coarse.	olastic		0.43	78.97		AA128652	B	0.50		
1.0 	Firm bro	at 0.45mbgl own sandy gravelly CLAY with a low . Sand is fine to coarse. Gravel is an ular, fine to medium.	cobble gular to					AA128653	в	1.00		
-	End of ⁻	Trial Pit at 1.40m			1.40	78.27						
- - 2.0												
-												
- - - 3.0												
-												
-												
4.0 												
-												
-												
Grou Dry	indwater (	Conditions										
<b>Stab</b> i Stabi												
Gene Pit te	eral Rema	r <b>ks</b> at 1.40mbgl on possible rockhead										
Stabi												

W DO	17 BSL	Т	RIAL PIT	RECO	RD				R	EPORT N	umber 000	
CON	TRACT	PPK3 Profile Park						TRIAL P	IT NO.	TP4		
LOG	GED BY	S.Cunningham	CO-ORDINAT	ES	703,09 730,40	94.39 E 01.33 N		- SHEET DATE ST DATE CO		28/0	et 1 of 1 8/2019 8/2019	
CLIE ENGI	NT	PM Group	GROUND LE	VEL (m)	80.90			EXCAVA METHO		6T J		
									Samples	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	a	meter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0  	Subrour Firm to medium	GROUND comprised of compact gre L. Sand is fine to coarse. Gravel is s ided, fine to coarse. stiff grey brown sandy gravelly silty ( cobble content and occasional bou	CLAY with Iders. Sand is		0.40	80.50		AA128656	В	0.30		
- - - 1.0	medium	roarse. Gravel is angular to subangu n. Frial Pit at 1.10m	lar, fine to		1.10	79.80		AA128657	В	0.90		
- - - - 2.0 - - - - - - -												
- - - - - - - -												
- 4.0 - - - - - - -												
Dry Stabi	ility	Conditions		1		<u>                                     </u>		· · · · · ·		1	<u> </u>	I
Stabl	le											
<b>Gene</b> Pit te	eral Rema erminated	<b>rks</b> at 1.10mbgl on possible rockhead										

Cher and	to	I			REPORT N	umber 000						
00	BSL									22	000	
CON	TRACT	PPK3 Profile Park						TRIAL, P - SHEET	IT NO.	TP4 Shee	<b>.3</b> et 1 of 1	
LOG	GED BY	S.Cunningham	CO-ORDINAT		730,39	57.10 E 92.77 N		DATE S		28/0	8/2019 8/2019	
CLIE ENGI	NT INEER	PM Group	- GROUND LEV	/EL (m)	80.89			EXCAVA METHOI	ATION D	Co 6T J	СВ	
									Sample	s ~?	a	meter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 - -	GRAVE subrour Firm br	GROUND comprised of compact gro L. Sand is fine to coarse. Gravel is nded, fine to coarse. own slightly sandy gravelly silty CLA	subangular to		0.30	80.59		AA123699	В	0.20		
- - - - - - - - - - - - - - -	coarse. Cobble argillac Possibl COBBL strength grey CL	n cobble and a low boulder content. Gravel is angular to subangular, fin s and boulders are tabular and platy eous limestone. e highly weathered rockhead recove E and GRAVEL sized fragments of n grey argillaceous limestone with so AY. Trial Pit at 0.90m	e to medium. of ered as angular medium		0.80 0.90	80.09 79.99		AA123700	В	0.60		
- - - - - - - - - -												
- 3.0 - - - - - - - -												
- 4.0 												
Grou Dry	undwater	Conditions		I	1	<u> </u>	L	1			<u> </u>	1
Stab												
Stabl	eral Rema erminated	arks I at 0.90mbgl on possible rockhead										

6	Ang							F	REPORT N	UMBER	
CO.		RIAL PIT	RECO	RD					22	000	
CON	ITRACT PPK3 Profile Park						TRIAL, P SHEET	IT NO.	TP4	4 et 1 of 1	
LOG	GED BY S.Cunningham	CO-ORDINAT	ES	703,0 730,3	73.77 E 76.09 N		DATE S	TARTED	28/0	8/2019 8/2019	
CLIE	ENT INEER PM Group	GROUND LEV	/EL (m)	81.25			EXCAVA		6T J		
ENG								Samples	- ⁶ -2	2	ter
	Geotechnical Description				ç	itrike		•		Vane Test (KPa)	Hand Penetrometer (KPa)
			Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Te	Hand Pe (KPa)
0.0	MADE GROUND comprised of compact gre GRAVEL. Sand is fine to coarse. Gravel is s subrounded, fine to coarse. Firm brown slightly sandy gravelly silty CLAN	ubangular to		0.35	80.90		AA123697	в	0.20		
- - -	medium cobble and a low boulder content. S coarse. Gravel is angular to subangular, fine Cobbles and boulders are tabular and platy argillaceous limestone.	Sand is fine to					AA123698	B B	0.60		
1.0	End of Trial Pit at 1.20m		×     ×      	1.20	80.05						
- - -											
2.0											
- - -											
- - -											
3.0											
- - -											
4.0											
- - -											
- - -											
Grou Dry	undwater Conditions				I	1	1		1	1	
Stab Billion Stab											
Gene	eral Remarks										
Pit te	erminated at 1.20mbgl on possible rockhead										

6	And							R	EPORT N	UMBER	
	JSL T	RIAL PIT	RECO	RD					22	000	
CON	ITRACT PPK3 Profile Park						TRIAL, P SHEET		TP4	<b>6</b> et 1 of 1	
LOG	GED BY S.Cunningham	CO-ORDINAT	ËS	703,16 730,40	69.44 E 04.61 N		DATE S	×	29/08	3/2019 3/2019	
CLIE ENG	ENT INEER PM Group	GROUND LEV	/EL (m)	81.47			EXCAVA METHO		OF J		
		1						Samples	°?		neter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
- 0.0 - - - -	MADE GROUND comprised of compact gre cobbly GRAVEL. Sand is fine to coarse. Gra subangular to subrounded, fine to coarse.	y sandy wel is					AA128663		0.50		H
- - - 1.0 - - -	Firm grey brown sandy gravelly silty CLAY w cobble content. Sand is fine to coarse. Grav to subangular, fine to medium. White geotextile sheeting	<i>i</i> ith a medium el is angular		0.80	80.67		AA128664	в	1.20		
-	End of Trial Pit at 1.60m			1.60	79.87						
2.0 	Indwater Conditions										
Dry											
<b>Stab</b> Stab	<b>ility</b> Ie										
	eral Remarks erminated at 1.60mbgl on possible rockhead										

6	Arra								R	EPORT N	UMBER	
00	GSL	Т	RIAL PIT	RECO	RD					22	000	
CON	ITRACT PPK3 Profile Park							TRIAL, P	IT NO.	TP4		
	GED BY S.Cunningham		CO-ORDINAT	ËS		43.86 E 90.72 N		- SHEET DATE S		29/0	et 1 of 1 8/2019	
CLIE	<b>J J J</b>			/EL (m)	81.70			DATE CO		<b>D</b> 29/08	8/2019 CB	
	INEER PM Group			1	1	1		METHO		000		1
									Samples	7	a	neter
	Geotechnic	al Description					trike				st (KP	enetror
				Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	MADE GROUND comprised cobbly GRAVEL. Sand is fin	e to coarse. Gra	y sandy avel is									
	subangular to subrounded, f	ine to coarse.										
								AA128665	В	0.70		
1.0	Firm to stiff grey brown sand	dy gravelly silty C	CLAY with a	××××	0.90	80.80			_	0110		
	medium cobble content. Sar angular to subangular, fine t	to medium.	se. Gravel is									
								AA128666	В	1.40		
	0				1.80	79.90						
2.0	Stiff grey brown sandy grave cobble and a low boulder co Gravel is fine to coarse, sub Cobbles are angular of med limestone.	angular to subro	ounded.	- <u>×</u> O =	2.00	79.70						
	End of Trial Pit at 2.00m		]									
3.0												
4.0												
<b>Groι</b> Dry	undwater Conditions							1				<u> </u>
Stab Minc	<b>ility</b> or Spalling in MADE GROUND	I										
	eral Remarks erminated at 2.0mbgl on possil	ble rockhead										

1	Arras		REPORT NUMBER								
00	T JSL	RIAL PIT I	RECO	RD					22	000	
CON	TRACT PPK3 Profile Park						TRIAL P		TP4		
LOG	GED BY S.Cunningham	CO-ORDINAT		703,1 730,3	25.78 E 55.65 N		SHEET         Sheet 1 of 1           DATE STARTED         29/08/2019           DATE COMPLETED         29/08/2019				
CLIE ENGI	NT INEER PM Group	GROUND LE	81.94	81.94			ATION	6T JCB			
								Sample	s	a	meter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 	MADE GROUND comprised of compact gre- cobbly GRAVEL. Sand is fine to coarse. Gra subangular to subrounded, fine to coarse.	y sandy vel is		0.60	81.34		AA128665	БВ	0.50		
- - - 1.0	Firm brown slightly sandy gravelly silty CLAY cobble content. Sand is fine to coarse. Grave to subangular, fine to medium.			01.34							
- 2.0	End of Trial Pit at 1.25m			1.25	80.69		AA128666	i B	1.20		
- - - - - - - - - - -											
<b>Grou</b> Dry	Indwater Conditions		I		I		<u> </u>				<u> </u>
<b>Stabi</b> Mino	<b>ility</b> r Spalling in MADE GROUND										
Grou Dry Stabi Mino Pit te	eral Remarks rminated at 1.25mbgl on possible rockhead										

TRIAL PIT RECORD										REPORT NUMBER				
1	TRACT	PPK3 Profile Park						TRIAL PI	T NO.	TP4				
LOG	GED BY	S.Cunningham	CO-ORDINATE	730,328.95 N DATE COM										
CLIE Engi	NT NEER	PM Group	GROUND LEV	'EL (m)	82.54			EXCAVA METHOD		CO GT JO	СВ			
									Sample	s 2	a)	ometer		
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)		
0.0	clayey fragme subrou	GROUND comprised of compact gree GRAVEL with occasional wood and p nts. Sand is fine to coarse. Gravel is nded, fine to coarse.	lastic subangular to		0.40	82.14								
	Soft to firm reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. Grey brown slightly sandy slightly gravelly silty CLAY with a low cobble content and rare boulders. Sand is fine to				0.70	81.84		AA123695	В	0.60				
1.0	coarse	. Gravel is fine to coarse, subangular nded. Cobbles are angular of medium gillaceous limestone. Boulders are tal	to	0 - <u>X</u> X	1.30	81.24		AA123696	В	1.00				
	End of Trial Pit at 1.30m													
2.0														
3.0														
4.0														
<b>Grou</b> Dry	ndwater	Conditions				]		·						
<b>Stabi</b> Stabl														
	ral Rem rminated	<b>arks</b> I at 1.30mbgl on possible rockhead												

4	Ara							R	EPORT N	UMBER			
U.C.	33L		PIT RECORD							22000			
CON	ITRACT PPK3 Profile Park		TRIAL, PIT I						<b>D. TP51</b> Sheet 1 of 1				
LOG	GED BY S.Cunningham	CO-ORDINAT	ES	703,2 ⁻ 730,30	19.61 E 67.63 N		DATE ST	OATE STARTED         29/08/2019           DATE COMPLETED         29/08/2019					
	ENT SINEER PM Group	GROUND LEV	GROUND LEVEL (m) 81.61				EXCAVA METHOD		C T J				
								Samples	-0'	2	eter		
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)		
- 0.0 - - -	MADE GROUND comprised of compact gru cobbly GRAVEL. Sand is fine to coarse. Gr subangular to subrounded, fine to coarse. Firm to stiff grey brown sandy gravelly silty medium cobble content. Sand is fine to coarse.	avel is		0.35	81.26		AA128675	В	0.30				
- - - 1.0	angular to subangular, fine to coarse.						AA128676	В	0.90				
- 2.0	End of Trial Pit at 1.40m			1.40	80.21								
- - - - - - - -													
- - - - - - - - - -													
Gra	undwater Conditions												
Dry													
Stab													
Stab													
Grou Dry Stab Stab Pit te	eral Remarks erminated at 1.40mbgl on possible rockhead												

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(IG2L)

22000	
22000	

) IC	BSL								22	000	
CON	TRACT PPK3 Profile Park	1					TRIAL, P SHEET		TP5 Shee	<b>2</b> et 1 of 1	
LOG	GED BY S.Cunningham	CO-ORDINAT	O-ORDINATES 703,251.15 E 730,358.70 N					DATE STARTED 29/08/2 DATE COMPLETED 29/08/2			
CLIE ENGI	NT INEER PM Group	GROUND LEVEL (m) 81.62					EXCAVATION 6T JCB				
								Samples	320	a	meter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer
0.0	MADE GROUND comprised of compact gre cobbly GRAVEL. Sand is fine to coarse. Gra subangular to subrounded, fine to coarse.	y very sandy avel is					AA128672	B	0.30		
- 1.0	subrounded, fine to coarse. Firm to stiff grey brown sandy gravelly silty C medium cobble content. Sand is fine to coar	Sand is fine to coarse. Gravel is subangular to	0.60 0.90	81.02 80.72		AA128673	В	0.70			
	angular to subangular, inte to medium.	ular to subangular, fine to medium.					AA128674	в	1.40		
2.0	End of Trial Pit at 1.90m			1.90	79.72						
3.0											
4.0											
<b>Grou</b> Dry	Indwater Conditions										
<b>Stabi</b> Stabl	<b>ility</b> le										
Gene Pit te	eral Remarks rminated at 1.90mbgl on possible rockhead										



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1	ITRACT PPK3 Profile Park							TRIAL PIT NO. TP53				
LOG	GED BY S.Cunningham	CO-ORDINAT	DRDINATES 703,285.15 E 730,326.87 N				Sheet 1 of 1 DATE STARTED 15/08/2019					
		GROUND LEVEL (m) 81.30					DATE COMPLETED 15/08/2019 EXCAVATION 6T JCB METHOD					
CLIE ENGI	ENT INEER PM Group											
	Geotechnical Description					ike		Samples	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	t (KPa)	Hand Penetrometer (KPa)	
			Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPÅ)	Hand Per (KPa)	
0.0	MADE GROUND comprised of compact gree GRAVEL with a low cobble content. Sand is coarse. Gravel is subangular to subrounded coarse. (Compact - Car park surface)	fine to , fine to		0.50	80.80		AA113643	В	0.40			
	Soft to firm brown sandy slightly gravelly CL/ fine to coarse. Gravel is angular to subangul	AY. Sand is ar, fine to		0.70	80.60							
	White geotextile sheeting	/	×									
1.0	Firm grey brown slightly sandy gravelly silty of medium cobble and occasional boulder cont fine to coarse. Gravel is angular to subangul medium. Cobbles and boulders are angular platy and tabular of argillaceous limestone a					AA113644	В	1.20				
2.0		× × × × × ×	2.10	79.20								
- - - - - - 3.0	End of Trial Pit at 2.10m											
4.0 - - - - -												
-												
Grou Dry	undwater Conditions											
Stab Good												
	eral Remarks erminated at 2.10mbgl on possible rockhead.											

10	TRIAL PIT RECORD										REPORT NUMBER				
CON	TRACT	PPK3 Profile Park		TRIAL											
LOG	GED BY	S.Cunningham	CO-ORDINATES 703,311.84 E 730,321.89 N					SHEET Sheet 1 of 1 DATE STARTED 15/08/2019 DATE COMPLETED 15/08/2019							
CLIE ENGI	NT NEER	PM Group	GROUND LEV	/EL (m)	80.97		EXCAVA METHO		OF JO	СВ					
									Samples	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	a	meter			
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)			
- 0.0 - - - -	coarse. coarse. Firm gre	GROUND comprised of dense grey s L with a low cobble content. Sand is Gravel is subangular to subrounded (Compact - Car park surface) ey brown slightly sandy gravelly silty	l, fine to		0.45	80.52		AA123621	В	0.30					
- - - - 1.0 -	fine to c medium platy an	nedium cobble and occasional boulder content. Sand is ine to coarse. Gravel is angular to subangular, fine to nedium. Cobbles and boulders are angular to subangula platy and tabular of argillaceous limestone and shale. White geotextile sheeting						AA123622	B	0.80					
- - - - - 2.0	End of ⁻	End of Trial Pit at 1.45m			1.45	79.52									
-															
- 3.0 - -															
- - - - 4.0															
Dry		Conditions				<u> </u>		1		1	L	I			
Stab i Good															
Gene Pit te	eral Rema erminated	rks at 1.45mbgl on possible rock head.													

Contraction of the second seco	JJ	٦	1	REPORT NUMBER									
CON	TRACT	PPK3 Profile Park		TRIAL PI									
LOG	GED BY	S.Cunningham	CO-ORDINAT		703,213.49 E DATE STAR 730,335.21 N DATE COMP								
CLIE ENGI	NT NEER	PM Group	GROUND LEV	. ,				EXCAVA METHO	ATION D	Co 6T J	СВ		
									Samples	، ^ح رک ا	a	meter	
		Geotechnical Description			Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
0.0 	clayey SAND. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. MADE GROUND comprised of compact blueish grey very				0.40	81.57		AA128667	В	0.20			
-	MADE GROUND comprised of compact blueish grey very sandy cobbly GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. Firm brown slightly sandy gravelly silty CLAY with a low				0.60	81.37		AA128668	В	0.50			
- - - -	Firm brown slightly sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.							AA128669	В	1.00			
- - -	End of 7	End of Trial Pit at 1.60m				80.37							
- 2.0 - - - - -	0												
- - - - - -	0												
- - - - - - -													
Grou	ndwater	Conditions											
Stabi Stabl													
Grou Dry Stabi	eral Rema erminated	rks at 1.60mbgl on possible rockhead											

1	And	R	REPORT NUMBER											
CO DO	BSL	Т	RIAL PIT I	RECO	RD		22000							
CON	TRACT	PPK3 Profile Park		TRIAL, PIT N SHEET										
LOG	GED BY	S.Cunningham	CO-ORDINAT	ES	703,24 730,32	41.33 E 29.17 N		DATE S	TARTED					
CLIE ENG		PM Group	GROUND LE	/EL (m)	81.79			EXCAVA METHO		6T J				
			1						Samples	2	a	neter		
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)		
0.0	cobbly GR subangula	ROUND comprised of compact gree RAVEL. Sand is fine to coarse. Gra ar to subrounded, fine to coarse. n slightly sandy gravelly silty CLAN	vel is		0.25	81.54		AA128670) В	0.20				
	cobble con to subang	el is angular					AA128671	В	0.60					
-	End of Tria		<u> </u>	1.30	80.49									
2.0														
- - - - - 3.0 -														
- - - - - - - - -														
Grou	undwater Co	nditions												
Dry														
Stab Stab														
Stab Stab Stab Pit te	eral Remark erminated at	s 1.30mbgl on possible rockhead												



22000	
22000	

QC	BSL										22	000	
CON	TRACT	PPK3 Profile Park							TRIAL, P	IT NO.	TP5 Shee	7 et 1 of 1	
LOGGED BY S.Cunningham			CO-ORDINATES 703,273.51 E 730,314.97 N				DATE ST DATE CO		14/08/2019 14/08/2019				
CLIE ENGI	NT INEER	PM Group	G	BROUND LE	81.57	81.57				6T JCB			
									Samples	2	a)	neter	
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa	Hand Penetrometer	
0.0	GRAVE coarse.	GROUND comprised of comp L with a low cobble content. S Gravel is subangular to subro (Compact - Car park surface)	Sand is fin ounded, fin	ne to		0.30	81.27		AA123651	В	0.20		
	Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. White geotextile sheeting Firm grey brown slightly sandy gravelly silty CLAY with medium cobble and occasional boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone.					0.80	80.77		AA123652	В	0.50		
1.0									AA123653	В	1.00		
2.0	End of 1	Frial Pit at 2.10m			- 	2.10	79.47		AA123654	В	1.80		
3.0													
4.0													
Dry Stabi	ility	Conditions											
	eral Rema	rks at 2.10mbgl on possible rock	khead.										

	ACA BSL	TRIAL PIT	RECO	RD				R	EPORT N	umber 000	
-	ITRACT PPK3 Profile Park		TRIAL P					IT NO.			
LOG	GED BY S.Cunningham	CO-ORDINAT	O-ORDINATES 703,301.28 E 730,298.05 N				DATE STAPTED 15/08			et 1 of 1 8/2019 8/2019	
CLIE ENGI	INEER PM Group	GROUND LE	GROUND LEVEL (m) 81.79					EXCAVATION 6T JCB			
								Samples	es to the second		ometer
	Geotechnical Descriptio	n	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 - - - - -	GRAVEL with a low cobble content. San coarse. Gravel is subangular to subroun coarse. (Compact - Car park surface) Firm grey brown slightly sandy gravelly s medium cobble and occasional boulder	grey brown slightly sandy gravelly silty CLAY with ium cobble and occasional boulder content. Sand is to coarse. Gravel is angular to subangular. fine to					AA113646	В	0.30		
- - - - - -	Platy and tabular of argillaceous limesto White geotextile sheeting	ne and shale.		1.55	80.24		AA113645	В	1.20		
2.0											
- - - - - - - -											
- - - - - - - -											
Grou	undwater Conditions										
Dry											
Stabi Good											
	eral Remarks erminated at 1.5mbgl due to the presence	of large boulders/ro	ock head.								



REPORT NUMBER

22000

	TRACT PPK3 Profile Park	1					TRIAL, PI		TP59 Sheet		
LOG	GED BY S.Cunningham		CO-ORDINATES 703,198.85 E 730,319.79 N GROUND LEVEL (m) 82.16				DATE STARTED 27/08/2 DATE COMPLETED 27/08/2			/2019	2019
CLIE ENGI	NT NEER PM Group		LL (11)	02.10			EXCAVA METHOD		6T JC	В	
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Samples edX	Depth	Vane Test (KPa)	Hand Penetrometer
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium. Firm grey brown mottled orange sandy grav with occasional boulders of limestone and a content. Sand is fine to coarse. Gravel is an subangular, fine to medium.	elly silty CLAY low cobble		0.30	81.86		AA123692 AA123693	В	0.60		
- 2.0	Stiff grey brown sandy very gravelly silty CL, medium cobble and a low boulder content. S coarse. Gravel is fine to coarse, subangular subrounded. Cobbles are angular of mediur grey argillaceous limestone. Boulders are ta limestone. Possible rockhead recovered as angular CC GRAVEL sized fragments of weak platy grey limestone. End of Trial Pit at 2.90m	Sand is fine to to n strength bular of DBBLE and		1.75 2.50 2.60	80.41 79.66 79.56		4A123694	в	2.70		
-4.0											
Grou Dry Stabi	ndwater Conditions										
Stabl											
	eral Remarks rminated at 2.90mbgl on possible rockhead										

1	And										UMBER	
Con Con	J.J. SSL	т	RIAL PIT F	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL, P SHEET	IT NO.	TP6 Shee		
LOGGED BY S.Cunningham			CO-ORDINATE		703,231.58 E 730,312.52 N			DATE ST		D 27/08/2019		
CLIE ENG	INEER	PM Group	GROUND LEV	EL (m)	81.90			EXCAVA METHO		Contraction of the second seco		
									Sample	s v	a	meter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
- 0.0 - - -	gravelly subang Firm rec Sand is	GROUND comprised of brown very s CLAY. Sand is fine to coarse. Grave ular, fine to medium. dish brown slightly sandy slightly gra fine to coarse. Gravel is subangular	el is angular to avelly CLAY.	۲ 0 0	0.15 0.35	81.75 81.55		AA123688	вВ	0.20		
- - - - - - - -	Grey bro a low co coarse. subrour grey arc limestor Firm to slightly	stiff grey brown mottled orange slight gravelly SILT with low cobble content	d is fine to to n strength bular of tly sandy t. Sand is fine		1.30	80.60		AA123689	B	0.70		
2.0	medium			<pre></pre>	2.40	79.50		AA123690	B	1.70		
- - -	GRAVE	e rockhead recovered as angular CO L sized fragments of medium strengt eous limestone. Frial Pit at 2.60m	BBLE and th grey		2.60	79.30		AA123691	В	2.50		
- - - - - - -												
- - - - - - - -												
Dry		Conditions				I		1				L
Stab Stab												
	eral Rema erminated	rks at 2.60mbgl due to the presence of I	arge boulders/p	ossible i	rock hea	ad.						

/	1								R	EPORT N	UMBER	
	3SL	т	RIAL PIT I	RECO	RD					22	000	
CON	ITRACT	PPK3 Profile Park						TRIAL P	IT NO.	TP6		
	GED BY	S.Cunningham	CO-ORDINAT	ES	703,26	60.90 E		- SHEET DATE ST	ARTED		et 1 of 1 8/2019	
LUG		S.Curningham	GROUND LEV	/EL (m)	730,28 82.17	87.72 N			OMPLET		8/2019	
CLIE ENG	ENT INEER	PM Group		ζ,				EXCAVA METHO		Contraction of the second seco	ЗВ	
									Samples	² 2	a	meter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 - -	GRAVE coarse.	GROUND comprised of compact grey L with a low cobble content. Sand is Gravel is subangular to subrounded (Compact - Car park surface)	fine to		0.30	81.87		AA123610	В	0.20		
-	Soft bro fine to o coarse.	own slightly sandy slightly gravelly CL coarse. Gravel is subangular to subro	AY. Sand is ounded, fine to		0.65	81.52		AA123611	В	0.40		
- - - - - -	Firm grown medium fine to comedium	peotextile sheeting ey brown slightly sandy gravelly silty of a cobble and occasional boulder cont coarse. Gravel is angular to subangul a. Cobbles and boulders are angular ad tabular of argillaceous limestone.	ent. Sand is lar, fine to					AA123612	В	1.10		
- - 2.0 - - -	End of	Trial Pit at 1.80m			1.80	80.37						
- - - - - - - -												
- - - - - - - -												
		Conditions										
Gro Dry	unawater	Conditions										
Stab Goo												
	eral Rema erminated	arks at 1.80mbgl on possible rockhead.										

1	And								R	EPORT N	UMBER		
00	BSL	Т	RIAL PIT I	RECO	ECORD						22000		
CON	TRACT	PPK3 Profile Park							IT NO.				
LOG	GED BY	S.Cunningham	CO-ORDINAT	703,289.86 E 730,273.69 N				TARTED					
CLIE ENGI	NT NEER	PM Group	GROUND LEV	ND LEVEL (m) 82.11				EXCAVA METHOI		6T JCB			
									Samples	and the		ometer	
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
0.0 - - - -	GRAVE coarse. coarse. Firm gre medium	GROUND comprised of compact gre L with a low cobble content. Sand is Gravel is subangular to subrounded (Compact - Car park surface) ey brown slightly sandy gravelly silty cobble and low boulder content. Sa Gravel is angular to subangular, fine s and boulders are angular to suban		0.40	81.71		AA123616	5 В	0.40				
- - - - -	and tab	s and boulders are angular to suban ular of argillaceous limestone eotextile sheeting	gular platy		1.50	80.61		AA123617	В	1.00			
- 2.0	End of	Trial Pit at 1.50m											
3.0 													
- 4.0 - - - - - - -													
Grou Dry		Conditions				<u> </u>				<u> </u>	I	L	
Stabi Good	ł												
Stabi Good Gene Pit te	eral Rema erminated	rks at 1.5mbgl on possible rockhead.											

1	And								R	EPORT N	UMBER	
	BSL	T	RIAL PIT I	RECO	RD					22000		
CON	TRACT	PPK3 Profile Park						TRIAL, P				
LOG	GED BY	S.Cunningham	CO-ORDINAT	ES	703,1 730,2	93.48 E 90.10 N		- SHEET DATE ST DATE CO	TARTED	15/08	et 1 of 1 8/2019 8/2019	
CLIE ENGI	NT INEER	PM Group	GROUND LEV	/EL (m)	83.05			EXCAVA METHO		6T J		
									Samples	² 2	a	meter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
_ 0.0 - - - - -	mottled plastic f Firm gre medium fine to c	IL: MADE GROUND comprised of s grey slightly sandy slightly gravelly ragments. by brown slightly sandy gravelly silty cobble and occasional boulder cor oarse. Gravel is angular to subang . Cobbles and boulders are angula	CLAY with CLAY with ntent. Sand is ular. fine to		0.40	82.65		AA123623	в	0.30		
- - - 1.0 -	platy an	Trial Pit at 1.10m	and shale.		1.10	81.95		AA123624	В	0.90		
- 2.0 - 3.0 - 4.0	Indwater	Conditions										
Dry Stab												
	eral Rema erminated	rks at 1.1mbgl due to the presence of I	arge boulders/rc	ock head								

W DO	17 BSL	т	RIAL PIT I	RECO	RD				R	REPORT NUMBER			
CON	TRACT	PPK3 Profile Park						TRIAL P		TP64 Sheet 1 of 1			
LOG	GED BY	S.Cunningham	CO-ORDINAT	ES		09.08 E 35.74 N		- SHEET DATE S DATE C	· · ·	27/0	et 1 of 1 8/2019 8/2019		
CLIE ENG	INEER	PM Group	GROUND LEV	/EL (m)	82.73			EXCAVA METHO		OF J	СВ		
									Samples	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	a	meter	
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
- 0.0 - - - -	GRAVE coarse. coarse. MADE	GROUND comprised of compact gre L with a low cobble content. Sand is Gravel is subangular to subrounded GROUND comprised of grey subang nded COBBLE.	fine to I, fine to /		0.30 0.45	82.43 82.28		AA123686	Б	0.30			
- - - 1.0 -	Firm to with me to coars medium	stiff brown grey slightly sandy gravel dium cobble and low boulder conten se. Gravel is angular to subangular, f n. Cobbles and boulders are angular id tabular of argillaceous limestone.	it. Sand is fine					AA123887	В	1.00			
- - -	End of	Trial Pit at 1.40m			1.40	81.33							
- 2.0 - -													
- - - - 3.0													
- - - -													
- - - 4.0													
-													
Grou Dry	Indwater	Conditions		1	I	1	<u> </u>			1	<u> </u>	L	
Stab Stab													
Gene Pit te	eral Rema erminated	arks at 1.40mbgl on possible rockhead											

e de la companya de l	AD BSL	т	RIAL PIT I	RECO	RD				R	EPORT N	umber 000	
	TRACT	PPK3 Profile Park						TRIAL P	IT NO.	TP65		
LOG	GED BY	S.Cunningham	CO-ORDINAT	ES	703,29 730,20	51.11 E 60.36 N		- SHEET DATE S	PARTED	14/08	et 1 of 1 8/2019 8/2019	
CLIE ENGI	NT INEER	PM Group	GROUND LEV	/EL (m)	82.52			EXCAVA				
									Samples	2	Pay	ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
_ 0.0 - - - - - - -	Firm gre medium fine to c medium	IL: Soft brown slightly sandy slightly Sand is fine to medium. ey brown slightly sandy gravelly silty o cobble and occasional boulder con coarse. Gravel is angular to subangu . Cobbles and boulders are angular d tabular of argillaceous limestone.	CLAY with tent. Sand is lar. fine to		0.35	82.17		AA123608	В	0.70		
- 1.0 	End of ⁻	Trial Pit at 1.50m			1.50	81.02		AA123609	В	1.30		
2.0												
- - - - - - - -												
- - - - - - - - -												
Grou	Indwater	Conditions										
Stab Good												
	eral Rema erminated	irks at 1.5mbgl on possible rockhead.										



22000
22000

1											
CON	ITRACT PPK3 Profile Park						TRIAL P	11 NO.	TP6 Shee	6 et 1 of 1	
LOG	GED BY S.Cunningham	CO-ORDINAT	ES	703,2 730,24	75.99 E 49.30 N		DATE S	TARTED		8/2019 8/2019	
CLIE		GROUND LEV	/EL (m)	82.31			EXCAVA METHO		6T J	СВ	
ENG	INEER PM Group								-0 ₆ -		
								Samples	۰ <u>ر</u>	Pa	ometer
	Geotechnical Description		7		6	Strike	0			est (K	enetro
			Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY with occasional rootlets. Sand is fine t	gravelly o medium.	<u>112</u> <u>112</u> 12 <u>112</u> <u>1</u> 2								
	Firm grey / brown grey silty sandy very grave	elly CLAY with		0.35	81.96						
	low cobble content. Sand is fine to coarse. C angular to subangular, fine to medium platy	Gravel is of limestone.	x o				AA123601	В	0.50		
—	Firm grey silty sandy very gravelly CLAY with	high cobble		0.95	81.36						
1.0	and low boulder content. Sand is fine to coarse, angular to subrounded of lime	rse. Gravel is	 								
							AA123602	В	1.40		
	Possible rockhead recovered as angular CC	BBLE sized		1.70 1.80	80.61 80.51						
- 2.0	fragments of medium strength grey argillace	ous limestone									
	End of Trial Pit at 1.80m										
4.0											
-											
-											
Grou Dry	undwater Conditions										
,											
Stab Good											
	eral Remarks										
Pit te	erminated at 1.80mbgl on possible rockhead.										

1	And								R	EPORT N	UMBER	
C CO	BSL		TRIAL PIT	RECO	RD					22	000	
CON	ITRACT	PPK3 Profile Park						TRIAL, P	IT NO.	TP6		
LOG	GED BY	S.Cunningham	CO-ORDINAT	ËS	703,1 730,2	78.66 E 70.49 N		DATE ST	IARTED	27/08	et 1 of 1 3/2019 3/2019	
CLIE	INEER	PM Group		/EL (m)	82.85			EXCAVA		6T JCB		
			·						Samples	2	a	neter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
- 0.0 	GRAVE fragmen subroun MADE (is fine. (Soft to f	GROUND comprised of compact g L with a low cobble content and p hts. Sand is fine to coarse. Gravel nded, fine to coarse. (Compact - C GROUND comprised of gravelly si Gravel is rounded, fine to coarse. im reddish brown slightly sandy s	astic and wire is subangular to ar park surface) / Ity SAND. Sand lightly gravelly		0.25 0.30	82.60 82.55		AA123683	В	0.20		
- 1.0	Subroun	Sand is fine to coarse. Gravel is sunded, fine to coarse.	ibangular to					AA123684	В	0.90		
- - - - - - - - - - -	COBBL strength grey CL	e highly weathered rockhead record E and GRAVEL sized fragments on grey argillaceous limestone with AY. Trial Pit at 1.50m	f medium		1.30	81.55 81.35		AA123685	В	1.40		
- - - - - - - - - - - -												
- - - - - - - - - -												
Grou Dry	undwater (Conditions										
- ,												
Stab Stab												
Stab Stab Stab Pit te	eral Rema erminated	rks at 1.5mbgl on possible rockhead										

W BO	T	RIAL PIT	RECO	RD					REPORT N	umber 000	
CON	ITRACT PPK3 Profile Park						TRIAL, P SHEET		TP6	8 et 1 of 1	
LOG	GED BY S.Cunningham	CO-ORDINAT		703,18 730,2	87.02 E 53.39 N		DATE S	TARTE	D 27/08	8/2019 8/2019	
CLIE ENG	INT INEER PM Group	GROUND LE	/EL (m)	82.59			EXCAVA METHO		C III	СВ	
						Ð		Sample	es ?	(кРа)	trometer
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
- 0.0	TOPSOIL: Soft brown slightly sandy slightly of CLAY. Sand is fine to medium.	gravelly	<u>x 1/</u> <u>x 1/</u> <u>1/</u> <u>x 1/</u> <u>x</u>								
-	Firm brown slightly sandy gravelly silty CLAY medium cobble and a low boulder content. S coarse. Gravel is angular to subangular, fine Cobbles and boulders are tabular and platy of argillaceous limestone.	to medium.	_ × × × × ×	0.30	82.29		AA123681	В	0.50		
- 1.0 - 2.0 - 3.0 - 4.0	Possible rockhead recovered as angular CO GRAVEL sized fragments of medium strengt argillaceous limestone. End of Trial Pit at 1.40m	BBLE and th grey		1.30 1.40	81.29 81.19		AA123682	? В	1.30		
61/01	Indwater Conditions										
SL.GDT 23/											
So Stab Stab											
	eral Remarks erminated at 1.4mbgl due to the presence of la	rge boulders/po	ossible ro	ock head	d.						



22000	
22000	

-	ITRACT PPK3 Profile P	ark						TRIAL, P	IT NO.	TP6			
LOG	GED BY S.Cunningham				730,23	37.59 E 38.77 N		Sheet 1 of 1 DATE STARTED 14/08/2019 DATE COMPLETED 14/08/2019					
CLIE ENG	INEER PM Group		GROUND LEV	/EL (m)	82.21			EXCAVA METHO	ATION - « D	6T J	СВ		
	Geotech	nnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Samples	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
2.0 2.0 3.0 4.0	TOPSOIL: Soft brown sli CLAY with occasional roo Soft to firm brown sandy cobble content. Sand is f to subangular, fine to me Firm grey brown slightly s medium cobble and occa fine to coarse. Gravel is a medium. Cobbles and bo platy and tabular of argill End of Trial Pit at 1.90m	otlets. Sand is fine slightly gravelly CL ine to coarse. Grav dium. sandy gravelly silty asional boulder com angular to subangu pulders are angular aceous limestone.	to medium. AY with low el is angular CLAY with tent. Sand is lar, fine to		0.35 0.60	81.86 81.61 80.31		AA123605 AA123606 AA123607	B B	0.50			
Grou Dry Stab Goo Pit te													
Gen Pit te	eral Remarks erminated at 1.9mbgl on po	ossible rockhead.											



CONTRACT

PPK3 Profile Park

TRIAL PIT RECORD

	22000
TRIAL, PIT NO.	TP70
SHEET	Sheet 1 of 1
DATE STARTED	14/08/2019
DATE COMPLETED	14/08/2019
	6T JCB
	6

						- SHEET Sheet 1 of 1					
LOGGED BY S.Cunningham	730,224.97 N					DATE STARTED 14/08/2019 DATE COMPLETED 14/08/2019					
CLIENT ENGINEER PM Group	GROUND LEV	'EL (m)	82.05			EXCAVA METHO		P 6T J	СВ		
							Samples	No.	a)	meter	
Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)	
 ^{0.0} TOPSOIL: Soft brown slightly sandy slightly g CLAY with occasional rootlets. Sand is fine to Soft to firm grey brown silty sandy gravelly CL cobble content. Gravel is angular to subround medium of limestone. Cobbles are angular to platy and tabular of argillaceous limestone. 	D medium.		0.40	81.65		AA123603	в	0.80			
Firm brown silty sandy gravelly CLAY with me content and low boulder content. Gravel is an subrounded, fine to medium of limestone. Co boulders are angular to subangular platy and argillaceous limestone. End of Trial Pit at 1.50m	ngular to obbles and		1.20 1.50	80.85 80.55		AA123604	В	1.40			
2.0											
- 3.0 											
- - 4.0 - - - - - -											
Groundwater Conditions Dry											
Stability Good											
General Remarks Pit terminated at 1.50mbgl on possible rockhead.											

1	1									REPORT N	UMBER	
NO DO	BSL	٢	RIAL PIT	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL P		TP7		
LOG	GED BY	S.Cunningham	CO-ORDINAT		703,3 730,3	67.59 E 30.58 N		DATE S	TARTED) 16/08	et 1 of 1 8/2019 8/2019	
CLIE				/EL (m)	79.49			EXCAV/ METHO		CO 6T J	СВ	
ENG		PM Group									0	
									Sample	s •	Pa	Hand Penetrometer (KPa)
		Geotechnical Description				5	Strike				est (K	enetro
				Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	and P (Pa)
0.0	MADE	GROUND comprised of compact gre	ev sandv		٥S	Ξ	3	йŘ	Ţ		~	ΞŦ
-	GRAVE coarse.	L with a low cobble content. Sand is Gravel is subangular to subrounded	s fine to		0.05	70.44		AA123631	В	0.20		
-	Soft to f	(Compact - Car park surface) irm orange mottled brown slightly sa	andy CLAY.		0.35 0.55	79.14 78.94		AA123632	B	0.45		
-	11	fine to coarse. eotextile sheeting	/		0.00	10.04						
	gravelly	own mottled orange/grey silty slightl CLAY with rare cobble. Sand is find	e to coarse.	o 								
1.0	Gravel i	s angular to subangular, fine to mea Ilar of argillaceous limestone.	lium. Cobbles									
-												
-	Possible	e rockhead recovered as angular C	OBBLE and	0000	1.80	77.69						
2.0	argillace	L sized fragments of medium streng eous limestone.	gtn grey	0000	2.10	77.39	(Seepage)	AA123633	в	2.00		
	End of	Γrial Pit at 1.90m										
-												
-												
3.0												
E												
-												
-												
-												
4.0												
-												
-												
Grou Wate		Conditions		1		I	1	1			1	I
		. p.: 4: 10011										
Stab Sligh		ole at 1.90m										
Gene	eral Rema											
Stab Sligh Pit te	rinnated	at 2.10mbgl on possible rockhead.										

TRIAL PIT RECORD REPORT NUMBER 22000												
TRIAL PIT RECORD 220 CONTRACT PPK3 Profile Park TRIAL PIT NO. TP72											000	
CON	TRACT	PPK3 Profile Park							IT NO.			
LOG	GED BY	S.Cunningham			730,32	50.78 E 23.79 N		- SHEET DATE S DATE C		16/0	et 1 of 1 8/2019 8/2019	
CLIE ENGI	NT INEER	PM Group	GROUND LEV	'EL (m)	79.89			EXCAVA METHOI		6T J	СВ	
									Samples	, ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Pa	ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
_ 0.0 _	Surface	,	/		0.15	79.74						
-	a low co subangi	GROUND comprised of grey sandy C bbble content. Sand is fine to coarse. ular to subrounded, fine to coarse.	. Gravel is		0.55	79.34		AA123625	БВ	0.35		
- - - 1.0	gravelly Sand is fine to n limestor	own mottled orange/grey silty slightly CLAY with a low cobble and boulde fine to coarse. Gravel is angular to s nedium. Cobbles are tabular of argill ne. eotextile sheeting	r content. subangular,					AA123626	5 В	0.70		
- - - -	with a lo	own mottled grey slightly sandy grave w cobble content and occasional bo o coarse. Gravel is angular to suban o Cobbles and boulders are tabular o	oulders. Sand gular, fine to		1.40	78.49	(Seepage)	AA123627	в	1.60		
2.0	End of T	Frial Pit at 1.90m										
- - - - - - - - - - - -												
-												
Grou Wate		Conditions n pit at 1.70m										
Stabi Good												
	eral Rema erminated	rks at 1.90mbgl on possible rock head										

1										REPORT N	UMBER	
Colored Colored	BSL	r	RIAL PIT	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL, P	IT NO.	TP7		
LOG	GED BY	S.Cunningham	CO-ORDINAT	ES		29.60 E 71.70 N		DATE S	·	27/08	et 1 of 1 3/2019 3/2019	
CLIE ENG		PM Group	GROUND LEV	/EL (m)	80.91			EXCAVA METHO				
									Sample	s	a)	neter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	GRAVEL coarse. G coarse. (0 Soft to firr CLAY. Sa subround	ROUND comprised of compact gre with a low cobble content. Sand is ravel is subangular to subrounded Compact - Car park surface) m reddish brown slightly sandy slig and is fine to coarse. Gravel is sub ed, fine to coarse.	s fine to I, fine to htly gravelly		0.35	80.56		AA123676	В	0.50		
- - - - -	Firm grey silty CLA medium. of limesto	mottled brown slightly sandy sligh / with a low cobble content. Sand Gravel is angular to subrounded, f ne. Cobbles are subangular to sul eous limestone.	is fine to					AA123677	В	1.40		
2.0	GRAVEL argillaceo	rockhead recovered as angular CC sized fragments of medium streng us limestone. al Pit at 2.20m	DBBLE and th grey	× · · · · · · · · · · · · · · · · · · ·	1.90 2.20	79.01 78.71	L (Sīow)	AA123678	В	2.00		
3.0												
4.0												
Grov	Indwater Co	onditions										
		ntributing to instability and side co	llapse at circa 1	.0m								
Stab Sligh	ility htly unstable	e at 1.0m										
	eral Remark erminated a	t s t 2.20mbgl on possible rockhead										



REPORT NUMBER

22000

CON	TRACT	PPK3 Profile Park						TRIAL, P 	IT NO.	TP7 Shee	4 t 1 of 1	
LOG	GED BY	S.Cunningham	CO-ORDINAT		703,30 730,22 81.26	03.35 E 22.50 N			OMPLETE	D 16/08	3/2019 3/2019	
CLIE ENGI	NT NEER	PM Group			01.20			EXCAVA METHO		6T JC	CB	
		Geotechnical Desc	ription	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Samples ed.	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
1.0	Firm gre low cobl to coars medium	IL: Soft brown slightly sandy Sand is fine to medium. by brown slightly sandy grav ole content and occasional l e. Gravel is angular to suba . Cobbles and boulders are d tabular of argillaceous lim	elly silty CLAY with boulders. Sand is fine ngular, fine to angular to subangular		0.40	80.86		AA123628	в	0.70		
2.0	cobble c coarse. Cobbles and tab	own silty very sandy very gra content and occasional boul Gravel is angular to subang and boulders are angular t ular of argillaceous limestor rial Pit at 2.30m	ders. Sand is fine to jular, fine to medium. o subangular platy		1.75 2.30	79.51 78.96	J. (Slow)	AA123629 AA123630		1.50 2.20		
3.0												
4.0												
Grou Grou	ndwater (ndwater c	Conditions contributing to instability and	l side collapse at circa 1	.80m		<u> </u>	<u> </u>					
Stabi Unsta	ility able at 1.6	ôm										
	eral Rema erminated	rks at 2.3mbgl due to the prese	nce of large boulders a	nd side c	ollapse.							

/									1	REPORT N	UMBER	
Co	SSL	т	RIAL PIT	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL, P	IT NO.	TP7		
			CO-ORDINAT	ES	703.42	28.23 E		DATE ST			et 1 of 1 3/2019	
LOG	GED BY	S.Cunningham			730,30	02.34 N		DATE S			3/2019 3/2019	
CLIE	NT		GROUND LE	VEL (m)	78.08			EXCAVA METHO			СВ	
ENG	INEER	PM Group							, 	-0 <u>-</u>		
									Samples	5 7	СРа	ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
- 0.0	GRAVE coarse.	GROUND comprised of compact gre L with a low cobble content. Sand is Gravel is subangular to subrounded	fine to		0.35	77.73						
- - -	Soft to CLAY.	(Compact - Car park surface) firm light brown slightly sandy slightly Sand is fine to coarse. Gravel is angu ular, fine to medium.	gravelly silty ular to					AA123637	В	0.50		
- - 1.0	Firm bro medium coarse.	own grey silty slightly sandy gravelly o cobble and low boulder content. Sa Gravel is angular to subangular, fine	e to medium.		0.75	77.33		AA123638	В	0.90		
- - - -	Cobble and tab	s and boulders are angular to subang ular of argillaceous limestone.	gular platy						-			
- - 2.0	End of	Trial Pit at 1.95m			1.95	76.13		AA123639	В	1.70		
-												
3.0												
- - -												
- 4.0 -												
-												
-												
Grou Dry	indwater	Conditions					1	1 1				I
Stab Good												
	eral Rema erminated	arks at 1.95mbgl on possible rock head.										

100	17 BSL	т	RIAL PIT	RECO	RD				I	REPORT N	umber 000	
CON	TRACT	PPK3 Profile Park						TRIAL, P	IT NO.	TP7		
LOG	GED BY	S.Cunningham	CO-ORDINAT			05.01 E 55.00 N		DATE ST	- ' X \	16/0	et 1 of 1 8/2019 8/2019	
CLIE ENGI	NT INEER	PM Group	GROUND LE	/EL (m)	78.76	1		EXCAVA METHO		Correction of the second secon	СВ	
									Samples	, ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Pa	ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 - - -	GRAVE Gravel i (Compa	GROUND comprised of compact gre L with low cobble content. Sand is fi is subangular to subrounded, fine to act - Car park surface) ht brown mottled grey slightly sandy	ne to coarse. coarse.		0.30	78.46		AA123634	в	0.20		
-	gravelly occasio angular boulder	In blown motiled grey slightly saidy y silty CLAY with low cobble content a nal boulders. Sand is fine to coarse. to subangular, fine to medium. Cobl s are angular to subangular platy an eous limestone and shale.	and Gravel is bles and	×				AA123635	В	0.65		
- 1.0 	Firm to and occ angular boulder	stiff silty grey sandy gravelly CLAY w casional boulder. Sand is fine to coar to subangular, fine to medium. Cobl s are angular to subangular platy an eous limestone.	se. Gravel is bles and		1.10	77.66		AA123636	6 В	1.40		
2.0 	End of ⁻	Trial Pit at 1.75m			1.75	77.01						
- - - 3.0 - - - -												
- - - - - - - - -												
Grou Dry	Indwater	Conditions										
Stab												
Good	ב											
	eral Rema erminated	irks at 1.75mbgl on possible rock head										

1	And								R	EPORT N	UMBER	
W B	BSL		TRIAL PIT	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL P	IT NO.	TP7		
LOG	GED BY	S.Cunningham	CO-ORDINAT	ES	703,3 730,2	80.42 E 05.20 N		DATE S		16/08	et 1 of 1 8/2019 8/2019	
CLIE ENG	INEER	PM Group	GROUND LEV	/EL (m)	79.31			EXCAVA METHO		6T J	СВ	
									Samples	2	a	meter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 1.0 1.0 2.0 3.0 4.0	GRAVE subroun Firm ligh gravelly to coars medium Possible GRAVE argillace	GROUND comprised of compact g L. Sand is fine to coarse. Gravel is inded, fine to coarse. (Compact - Ca ht brown mottled grey slightly sand silty CLAY with low cobble conten- ie. Gravel is angular to subangular a. e rockhead recovered as angular C L sized fragments of medium strer eous limestone. Trial Pit at 1.20m	subangular to II park surface) / y slightly Sand is fine fine to COBBLE and		0.10	79.21		AA123640 AA123641	В	0.50		
Grou Dry Stab		Conditions		J	<u> </u>	I						
Good	d											
Gene Pit te	eral Rema erminated	r ks at 1.2mbgl on possible rock head										

1	And								R	EPORT N	UMBER	
C De	BSL		TRIAL PIT	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL, P SHEET	IT NO.	TP7	8 et 1 of 1	
LOG	GED BY	S.Cunningham	CO-ORDINA	TES	703,3 730,1	45.19 E 58.02 N		DATE S		27/08	8/2019 8/2019	
CLIE	INEER	PM Group	GROUND LE	VEL (m)	80.09			EXCAVA		6T J		
		1							Samples	-0		ieter
		Geotechnical Descrip	tion	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 	GRAVE coarse. coarse. Firm bro with a lo is fine to medium limestor White g Possible GRAVE argillace	GROUND comprised of compa iL with a low cobble content. S Gravel is subangular to subro (Compact - Car park surface) own mottled grey slightly sand ow cobble content and occasic o coarse. Gravel is angular to s h. Cobbles and boulders are ta ne. leotextile sheeting e rockhead recovered as angu iL sized fragments of medium eous limestone. Trial Pit at 1.60m	and is fine to unded, fine to y gravelly silty CLAY nal boulders. Sand subangular, fine to bular of argillaceous		0.20	ш 79.89 78.79 78.49	1	о́ й АА123679 АА123680	В	0.80	>	Ξ <u>×</u>
- - - - - - - - - -												
4.0												
	bage at 1.	Conditions 5m										
	eral Rema erminated	irks at 1.60mbgl on possible rockh	nead									

W DO	A-		TRIAL PIT	RECO	RD					REPORT N	jmber 000	
CON	TRACT	PPK3 Profile Park						TRIAL, P		TP7		
LOG	GED BY	S.Hannon	CO-ORDINAT		730,29	60.66 E 97.40 N		DATE S	TARTED	28/08	t 1 of 1 3/2109 3/2109	
CLIE		DM Crown	GROUND LE	VEL (m)	77.70			EXCAVA METHO		7T E	kcavato	•
ENG	NEER	PM Group							Sample	s S	2	eter
		Geotechnical Descrip	otion	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSO CLAY. S	IL: Soft brown slightly sandy s Sand is fine to medium.	lightly gravelly	<u><u>x</u>, <u>x</u>, <u>x</u>, <u>x</u>, <u>x</u>, <u>x</u>, <u>x</u>, <u>x</u>,</u>	0.00	77.40						
	Firm bro to mediu coarse.	own slightly sandy gravelly silt um. Gravels are angular to su	y CLAY. Sand is fine brounded and fine to		0.30	77.40		AA113553	в	0.50-0.50		
- - - 1.0	Firm-stif are angu limestor	ff greyish brown very gravelly ular to subrounded and fine to ne rockhead.	silty CLAY. Gravels coarse. Refusal at		0.70	77.00		AA113554	в	1.00-1.20		
	End of T	Frial Pit at 1.30m			1.30	76.40		AAT 13534		1.00-1.20		
2.0												
- -												
- 3.0 												
- - -												
-												
4.0 -												
-												
- - -												
Grou Dry	Indwater (Conditions										
Stab Stab												
	eral Rema	rks at 1.30mbgl on possible rockl	nead									

1	And									REPORT N	JMBER	
C CO	BSL	Т	RIAL PIT I	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL P	IT NO.	TP8		
LOG	GED BY	S.Hannon	CO-ORDINAT	ES	703,43 730,24	33.24 E 43.53 N		DATE ST		28/08	t 1 of 1 3/2109 3/2109	
CLIE ENG	INEER	PM Group	GROUND LE	/EL (m)	78.57			EXCAVA METHO		~~7TE:	xcavato	•
									Sample	is v	a	meter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 - -	CLAY.	DL: Soft brown slightly sandy slightly Sand is fine to medium.		<u>11/2 11/2</u>	0.30	78.27						
- - -	coarse. to subro Firm-sti	ff greyish brown very gravelly, silty C	e subangular	×=====================================	0.70	77.87		AA113555	В	0.50-0.50		
- - - -	cobble	n-stiff greyish brown very gravelly, silty CLAY with lov ble content. Gravels are angular to subrounded and to coarse. Refusal at shale rockhead. d of Trial Pit at 1.40m	ounded and					AA113556	В	1.00-1.00		
	End of	Trial Pit at 1.40m		_x	1.40	77.17						
- - 2.0												
- - -												
-												
3.0 												
- - -												
- - 4.0												
-												
- - -												
Grou Dry	Indwater	Conditions				<u> </u>	<u> </u>	1				
Stab Stab	ility le											
	eral Rema erminated	arks at 1.40mbgl on possible rockhead										

200	T ISL T	RIAL PIT	RECO	RD				F	REPORT N	umber 000	
CON	TRACT PPK3 Profile Park						TRIAL, P		TP8		
LOG	GED BY S.Hannon	CO-ORDINAT	ËS	703,40 730,20	05.74 E 01.36 N			TARTED OMPLET	28/08	et 1 of 1 3/2109 3/2109	
CLIE ENGI	NT NEER PM Group	GROUND LEV	/EL (m)	79.11			EXCAV/ METHO			xcavato	r
								Samples	, ²	a	meter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium.	gravelly	<u>x1, x1, x1,</u>								
 - -	Firm brownish grey gravelly silty CLAY. Grave subangular to subrounded and fine to coarse limestone rockhead.	vels are e. Refusal at		0.30	78.81		AA113557	в	0.60-0.60		
-	End of Trial Pit at 0.90m			0.90	78.21						
- 2.0											
- Grou	ndwater Conditions										
Dry											
Stabi Stabl	ility le										
Grou Dry Stabi	eral Remarks rminated at 0.90mbgl on possible rockhead										



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		00 0000047		700.00			SHEET	<u> </u>		t 1 of 1	
LOG	GED BY S.Hannon			730,16	34.06 E 52.70 N		DATE ST DATE CO	OMPLET	ED 28/08	8/2109 8/2109	
clie Engi	NT NEER PM Group	GROUND LE	'EL (M)	79.90			EXCAVA METHOD	ATION D	Contraction of the second seco	cavato	-
								Samples		Pa	ometer
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium.	gravelly	<u>112</u> <u>112</u> <u>12</u> <u>114</u> <u>11</u> <u>14</u> <u>14</u> <u>14</u>								
	Firm-stiff brownish grey gravelly silty CLAY . subangular to subrounded and fine to coars	Gravels are e.		0.35	79.55		AA113558	В	0.50-0.50		
1.0	Stiff brownish grey gravelly silty CLAY with cobble content and low boulder content. Gra and boulders are angular to subrounded and fine to coarse. Refusal at limestone rockhea	vels, cobbles d gravels are	11、 11、 11、 11、 11、 11、 11、 1 11、 1	0.80	79.10		AA113559	В	1.00-1.20		
	End of Trial Pit at 1.40m	u.		1.40	78.50						
2.0											
3.0											
4.0											
Grou Dry	ndwater Conditions										
Stab Stab	ility le										
	eral Remarks										
Pit te	rminated at 1.40mbgl on possible rockhead										

W BO	A-	т	RIAL PIT	RECO	RD				F	EPORT NI	JMBER	
CON	TRACT	PPK3 Profile Park						TRIAL, P	IT NO.	TP8		
LOG	GED BY	S.Hannon	CO-ORDINAT		703,4 730,2	86.12 E 82.25 N		- SHEET DATE S DATE C	TARTED	28/08	t 1 of 1 3/2109 3/2109	
CLIE ENGI	NT INEER	PM Group	GROUND LEV	/EL (m)	78.29			EXCAVA METHO	ATION O	7T E	xcavato	
		Geotechnical Description		Legend	oth	Elevation	Water Strike	Sample Ref	Samples		Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSC	IL: Soft brown slightly sandy slightly	gravelly		Depth (m)	Ē	Ma	Sar Ref	Type	Depth	Var	Har (KP
-	CLAY. S	Sand is fine to medium. own slightly sandy gravelly silty CLA um. Gravels are subangular to subro			0.30	77.99		AA113551	В	0.50-0.50		
1.0	End of ⁻	Trial Pit at 1.00m		 X	1.00	77.29		AA113552	B	1.00-1.00		
- 2.0 - 2.0 - 3.0 - 4.0	Indwater	Conditions										
Dry												
Stab Stab	ility le											
Stabl Stabl Gene Pit te	eral Rema erminated	I Remarks inated at 1.00mbgl on possible rockhead										

1	Array	_							F	REPORT N	JMBER	
C IC	BSL	т	RIAL PIT	RECO	RD					220	000	
CON	TRACT	PPK3 Profile Park						TRIAL, P		TP8 Shee	4 t 1 of 1	
LOG	GED BY	S.Hannon	CO-ORDINAT		703,52 730,26	25.11 E 62.76 N		DATE S	TARTED	28/08	3/2109 3/2109	
CLIE ENGI	NT INEER	PM Group	GROUND LE	/EL (m)	79.03			EXCAVA METHO	ATION D	7T Ex	xcavator	
									Samples	2°	a	neter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
- 0.0	CLAY. S	IL: Soft brown slightly sandy slightly sand is fine to medium.		1/ 2/1/ 1/	0.30	78.73						
-	Firm bro content boulder	own gravelly silty CLAY with medium and low boulder content. Gravels co s are angular to subrounded and gra	cobble bbles and vels are fine		0.50	10.15						
-	to coars	e.						AA113560) В	0.60-0.60		
1.0	Stiff are	yish brown slightly gravelly silty CLA	Y. Gravels		1.20	77.83						
-	are sub	angular to subrounded and fine to co	arse.					AA113561	В	1.30-1.30		
-												
2.0								AA113562	B	2.00-2.00		
-	End of ⁻	Frial Pit at 2.50m		 9 	2.50	76.53		AA113563	в В	2.50-2.50		
3.0												
-												
-												
- 4.0 -												
-												
- - -												
Grou Dry	Indwater	Conditions										
Stab Stab	ility le											
	eral Rema erminated	rks at 2.50mbgl on possible rockhead										

W DO	T SSL	RIAL PIT I	RECO	RD				R	EPORT NI	JMBER	
CON	ITRACT PPK3 Profile Park						TRIAL P		TP8		
LOG	GED BY S.Hannon	CO-ORDINAT		703,52 730,20	25.67 E 63.13 N			TARTED	28/08	et 1 of 1 3/2109 3/2109	
CLIE ENG	INT INEER PM Group	GROUND LEV	/EL (m)	79.01			EXCAVA METHO	ATION O	7T E	xcavato	
								Samples	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	a	meter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium.	gravelly	<u>1/ 1/ 1/</u>	0.30	78.71						
-	Firm-stiff greyish brown gravelly silty CLAY. subangular to subrounded and fine to coarse limestone rockhead.	Gravels are e. Refusal at	<u> </u> 	0.30	70.71		AA113564	В	0.50-0.50		
- - 1.0 - -	End of Trial Pit at 1.20m			1.20	77.81		AA113565	БВ	1.20-1.20		
-											
2.0											
- - -											
- 3.0 											
- - -											
- 4.0 - - -											
- - -											
BIND Dry	undwater Conditions										
Stab											
6101.62 Dry Stab Stab Pit te	eral Remarks erminated at 1.20mbgl on possible rockhead										

and the second s	BSL	TRIAL PIT	RECO	RD					REPORT N	umber 000	
CON	ITRACT PPK3 Profile Park						TRIAL, P SHEET	IT NO.	TP8	6 et 1 of 1	
LOG	GED BY S.Hannon	CO-ORDINAT		703,4 730,2	76.47 E 57.99 N		DATE S		29/08	3/2019 3/2019	
CLIE		GROUND LE	VEL (m)	78.32			EXCAVA METHO		7T E	xcavato	r
ENGI	INEER PM Group							Sample	is C	2	eter
	Geotechnical Descripti	on	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 	TOPSOIL: Soft brown slightly sandy slig CLAY. Sand is fine to medium. Firm-stiff grey very gravelly silty CLAY wand boulders. Gravels cobbles and bout to subrounded and gravels are fine to c limestone rockhead.	with rare cobbles		0.30	78.02		AA113580	B B	0.60-0.60		
Grou Dry	undwater Conditions				<u> </u>						
- ,											
Stab Stab											
	eral Remarks erminated at 1.80mbgl on possible rockhe	ead									

1	1								I	REPORT N	UMBER	
W DO	JJ	т	RIAL PIT I	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL P		TP8		
LOG	GED BY	S.Hannon	CO-ORDINAT	ES	703,5 ⁻ 730,23	12.54 E 37.68 N		DATE S	TARTED	29/08	et 1 of 1 3/2019 3/2019	
CLIE	NT		GROUND LEV	/EL (m)	79.13			EXCAVA METHO	ATION		xcavato	r
ENG	NEER	PM Group								- 0 <u>6</u> -3		
									Samples		a)	Hand Penetrometer (KPa)
		Geotechnical Description				_	rike				st (KF	netro
				Legend	oth	Elevation	Water Strike	Sample Ref	e	oth	Vane Test (KPa)	nd Pe a)
					Depth (m)	Ele	Wa	Sar Ref	Type	Depth	Var	Hai (KP
0.0	TOPSO CLAY. S	IL: Soft brown slightly sandy slightly Sand is fine to medium.	gravelly	<u>112 117</u>								
F	Firm-stif	f greyish brown gravelly silty CLAY.	Gravels are		0.40	78.73						
E	angular	to subangular and fine to coarse. Role rockhead.	efusal at					AA113582	2 В	0.60-0.60		
-												
1.0	End of 1	rial Pit at 1.00m			1.00	78.13		AA113583	B B	0.90-1.00		
-												
-												
2.0												
- 2.0												
E												
ŀ												
3.0												
-												
-												
4.0												
E												
-												
F												
F												
Grou Dry	indwater (Conditions										
Stab Stab												
Gene Pit te	eral Rema	rks at 1.00mbgl on possible rockhead										
Grou Dry Stab Stab Pit te												
2												



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220	00

PPK3 Profile Park	CO-ORDINAT	ES	703,54	17.94 E		TRIAL, PI SHEET			t 1 of 1	
S.Hannon	CO-ORDINAT	ES	<b>CO-ORDINATES</b> 703,547.94 E							
	GROUND LEVEL (m) 79.01			DATE STARTED 29/08/20 DATE COMPLETED 29/08/20 EXCAVATION C 7T Excav				9		
PM Group	GROUND LEV	/EL (m)	79.01				TION		cavator	ſ
							Samples		2	leter
Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KP	Hand Penetrometer
Sand is fine to medium.			0.30	78.71						
unded and gravels are fine to coarse	. Gravels are		0.60	78.41		AA113569	В	0.50-0.50		
al at limestone rockhead.						AA113570	В	1.00-1.20		
f Trial Pit at 1.80m			1.80	77.21						
r Conditions										
	OIL: Soft brown slightly sandy slightly Sand is fine to medium. rown gravelly silty CLAY. Gravels are unded and gravels are fine to coarse tiff greyish brown gravelly silty CLAY gular to subrounded and gravels are al at limestone rockhead.	OL: Soft brown slightly sandy slightly gravelly Sand is fine to medium. rown gravelly silty CLAY. Gravels are subangular to inded and gravels are fine to coarse. tiff greyish brown gravelly silty CLAY. Gravels are gular to subrounded and gravels are fine to coarse. a at limestone rockhead. Trial Pit at 1.80m r Conditions	OL:: Soft brown slightly sandy slightly gravelly       Market and gravels are fine to coarse.         rown gravelly slity CLAY. Gravels are subangular to inded and gravels are fine to coarse.       Market and gravels are fine to coarse.         tif greyish brown gravelly slity CLAY. Gravels are fine to coarse.       Market and gravels are fine to coarse.         Trial Pit at 1.80m       Market and gravels are fine to coarse.         r Conditions       Market and gravels are fine to coarse.	Image: Constraint of the constraint	Image: set in the set in	OLL: Soft brown slightly sandy slightly gravelly       1/2       0.30       78.71         rown gravelly slity CLAY. Gravels are subangular to inded and gravels are fine to coarse.       0.60       78.41         gliah to subrounded and gravels are fine to coarse.       0.60       78.41         gliah to subrounded and gravels are fine to coarse.       0.60       78.41         gliah to subrounded and gravels are fine to coarse.       0.60       78.41         gliah to subrounded and gravels are fine to coarse.       0.60       77.21         Trial Pit at 1.80m       1.80       77.21	OLI: Soft brown slightly sandy slightly gravelly Sand is fine to medium. rown gravelly slity CLAY. Gravels are subangular to inded and gravels are fine to coarse. at at limestone rockhead. Trial Pit at 1.80m r Conditions	DIL: Soft brown slightly sandy slightly gravelly Sand is fine to medium. rown gravelly slity CLAY. Gravels are subangular to inded and gravels are fine to coarse. at at limestone rockhead. Trial Pit at 1.80m Trial Pit at 1.80m I Trial Pit a	DL: Soft brown slightly sandy slightly gravelly Sand is fine to medium. rown gravelly slity CLAY. Gravels are subangular to gular to subrounded and gravels are fine to coarse. at at limestone rockhead. Trial Pit at 1.80m Conditions	DL: Soft brown slightly sandy slightly gravelly Sand is fine to medium. rown gravelly slity CLAY. Gravels are subangular to moded and gravels are fine to coarse. tiff greyish brown gravelly slity CLAY. Gravels are guar to subrounded and gravels are fine to coarse. at limestone rockhead. Trial Pit at 1.80m r Conditions

1	And								R	EPORT N	UMBER	
C C	BSL	Т	RIAL PIT	RECO	RD					220	000	
CON	ITRACT	PPK3 Profile Park						TRIAL, P	IT NO.	TP8		
LOG	GED BY	S.Hannon	CO-ORDINAT	ËS	703,46 730,23	64.19 E 34.28 N		- SHEET DATE S DATE C		29/08	et 1 of 1 3/2019 3/2019	
CLIE ENG	INEER	PM Group	GROUND LE	/EL (m)	79.45			EXCAVA METHO			xcavator	
									Samples	ج ج	a	meter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
_ 0.0 _ _ _	CLAY. S	NL: Soft brown slightly sandy slightly Sand is fine to medium. own silty CLAY.	gravelly	× × ×	0.30	79.15						
	Stiff bro	wnish grey very gravelly silty CLAY. to subrounded and fine to coarse.	Gravels are		0.70	78.75		AA113578	В	0.60-0.50		
- 1.0 								AA113579	В	1.10-1.30		
	End of	Trial Pit at 1.50m		¥	1.50	77.95						
2.0												
-												
3.0												
-												
4.0												
-												
-												
Dry	undwater	Conditions										
Stab												
Gen	eral Rema	irks										
Pit te	erminated	at 1.50mbgl on possible rockhead										
20												



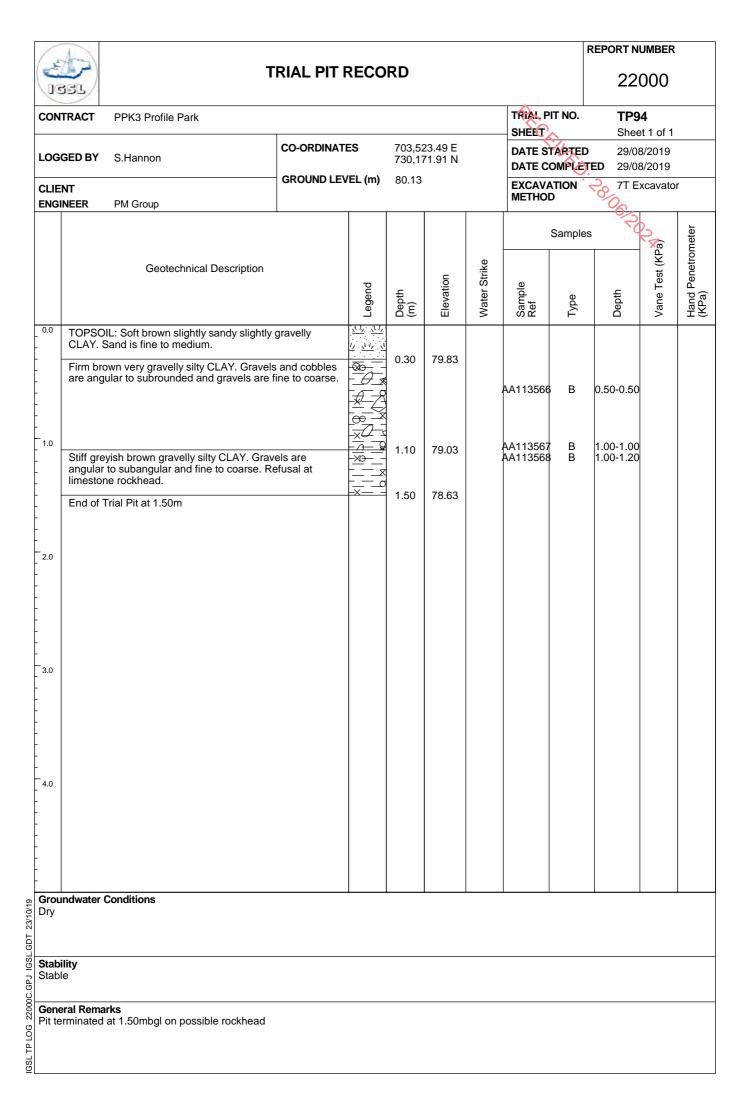
22	$\sim$	$\sim$	n
22	U	U	J

100	BSL								220	000	
CON	TRACT PPK3 Profile Park	1					TRIAL, PI 	T NO.	TP90 Sheet	<b>)</b> t 1 of 1	
LOG	GED BY S.Hannon	CO-ORDINAT	ËS	703,50 730,27	0.58 E 4.69 N		DATE ST			/2019	
CLIE ENGI	INT INEER PM Group	GROUND LEV	/EL (m)	79.89			EXCAVA	TION		cavato	r
		1						Sample	3	a	neter
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium. Firm brown gravelly silty CLAY. Gravels are subangular and fine to coarse.			0.40	79.49		AA113573	В	0.50-0.50		
1.0	Stiff grey very gravelly silty CLAY. Gravels a subangular and fine to coarse. Refusal at lir	re angular to		1.20	78.69		AA113574	В	1.00-1.00		
2.0	End of Trial Pit at 2.50m	Gravels are angular to usal at limestone		2.50	77.39		AA113575	В	1.50-1.70		
3.0											
4.0											
<b>Grou</b> Dry	Indwater Conditions		<u> </u>								<u> </u>
<b>Stabi</b> Stabl	<b>ility</b> le										
Gene Pit te	eral Remarks erminated at 2.50mbgl on possible rockhead										

W BO	T SSL	RIAL PIT I	RECO	RD				F	REPORT N	umber 000	
CON	TRACT PPK3 Profile Park						TRIAL, P		TP9		
LOG	GED BY S.Hannon			730,19	35.78 E 93.19 N		- SHEET DATE S DATE C	TARTED OMPLET	29/08	et 1 of 1 3/2019 3/2019	
CLIE	NT INEER PM Group	GROUND LEV	/EL (M)	79.01			EXCAVA METHO	ATION D	→ 7T E	xcavato	r
								Samples		Pa	ometer
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPà)	Hand Penetrometer (KPa)
0.0	TOPSOIL: Soft brown slightly sandy slightly CLAY. Sand is fine to medium.	gravelly		0.40	78.61						
-	Firm orange brown silty CLAY. Firm-stiff greyish brown very gravelly silty CL are angular to subrounded and fine to coars	AY. Gravels	× × × ×  × × × -  × × × -	0.70	78.31		AA113584	В	0.50-0.50		
	are angular to subrounded and fine to coars limestone rockhead.	e. Refusal at		1.00	78.01		AA113585	БВ	1.00-1.20		
- 2.0	End of Trial Pit at 1.30m										
<b>Grou</b> Dry	ndwater Conditions										
<b>Stab</b> Stab											
Grou Dry Stab Stab Pit te											

1	A									REPORT N	UMBER	
NO DO	SSL	Т	RIAL PIT	RECO	RD					22	000	
CON	TRACT	PPK3 Profile Park						TRIAL, P		TP9		
LOG	GED BY	S.Hannon	CO-ORDINAT	ES	703,48 730,27	51.90 E 13.32 N		- SHEET DATE S DATE C	TARTED	29/08	et 1 of 1 3/2019 3/2019	
CLIE ENG	NT INEER	PM Group	GROUND LEV	/EL (m)	79.76			EXCAVA METHO	ATION D	, 	xcavato	ŗ
			1						Sample	s v	a	meter
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0		IL: Soft brown slightly sandy slightly Sand is fine to medium.		<u>11</u> <u>11</u> <u>11</u> <u>11</u> <u>11</u>	0.30	79.46						
- - -	Firm-stif are ang limestor	ff greyish brown very gravelly silty C ular to subangular and fine to coarso ne rockhead.	LAY. Gravels e. Refusal at					AA113576	6 В	0.60-0.60		
- - - - - - -								AA113577	в	1.10-1.30		
- 2.0 - - - - - -	End of T	Γrial Pit at 1.90m		-x	1.90	77.86						
- 3.0 - - -												
- - - - - - - - -												
-												
<b>Groι</b> Dry	Indwater (	Conditions										
<b>Stab</b> Stab												
	eral Remarks erminated at 1.90mbgl on possible rockhead											

100	AP BSL	т	RIAL PIT	RECO	RD				F	REPORT N	umber 000	
CON	ITRACT	PPK3 Profile Park				TRIAL, P						
LOG	LOGGED BY S.Hannon		CO-ORDINAT	703,488.81 E 730,192.20 N			- SHEET DATE S DATE C	×7.				
CLIE ENG	INEER	PM Group	GROUND LE	VEL (m)	80.07			EXCAVA METHO	ATION D	7T E	xcavato	r
									Samples	es tra		ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPà)	Hand Penetrometer (KPa)
0.0	TOPSC CLAY.	DIL: Soft brown slightly sandy slightly Sand is fine to medium.	gravelly	$\frac{\sqrt{1}}{1} \frac{\sqrt{1}}{\sqrt{1}} \frac{\sqrt{1}}{\sqrt{1}}$								
- - - -	Firm-st are ano limesto	iff greyish brown very gravelly silty Cl gular to subangular and fine to coarse ne rockhead.	LAY. Gravels e. Refusal at		0.30	79.77		AA113571	В	0.50-0.50		
- - 1.0 -						78.67		AA113572	2 В	1.00-1.20		
-	End of	Trial Pit at 1.40m				78.07						
2.0												
- - -												
- - -												
3.0												
-												
- 4.0 -												
- - -												
-												
<b>Grou</b> Dry	undwater	Conditions										
<b>Stab</b> Stab												
Stab Bit te	eral Rema erminated	arks I at 1.40mbgl on possible rockhead										



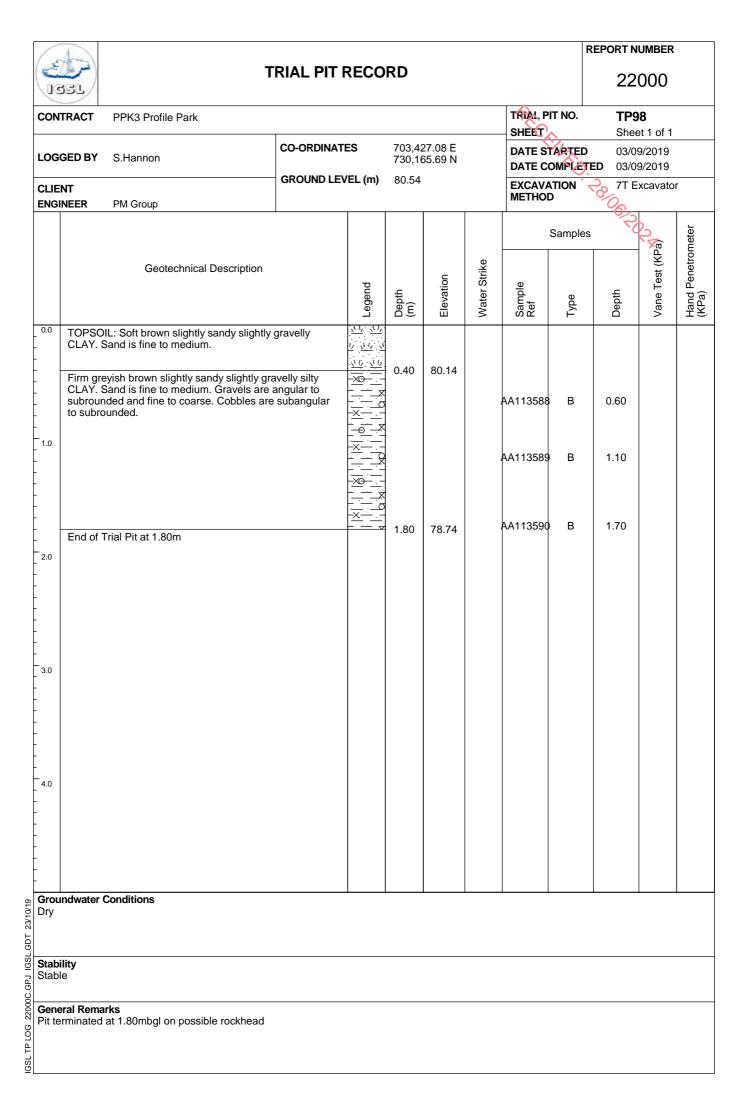
10	J.SL	ſ	RIAL PIT	RECO	RD				F	REPORT N	umber 000	
CON	TRACT	PPK3 Profile Park						TRIAL, P SHEET	IT NO.	TP9	9 <b>5</b> et 1 of 1	
LOG	LOGGED BY S.Hannon		CO-ORDINATES 703,440.69 E 730,189.18 N				DATE STARTE		D 03/09/2019			
CLIE ENGI	NT NEER	PM Group	- GROUND LE	VEL (m)	80.09			EXCAVA METHO			xcavato	r
									Samples	es contraction and a contraction of the contraction		ometer
		Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
- ^{0.0} - -		IL: Soft brown slightly sandy slightly Sand is fine to medium.		$\frac{\sqrt{L_2}}{\sqrt{L_2}} \frac{\sqrt{L_2}}{\sqrt{L_2}}$	0.40	79.69						
-	Firm gre CLAY. Subrour to subro	eyish brown slightly sandy slightly gr Sand is fine to medium. Gravels are nded and fine to coarse. Cobbles are bunded.	avelly silty angular to e subangular		0.40	10.00		AA113586	В	0.60		
- 1.0 - - -				- 0%;  -  %  	1 00	70.40		AA113587	В	1.20		
-	End of	End of Trial Pit at 1.60m			1.60	78.49						
2.0 - - - - -												
- 3.0 - - - -												
- - - - - 4.0 -												
- - - -												
<b>Grou</b> Dry	Indwater	Conditions								<u> </u>		
<b>Stabi</b> Stabl												
Grou Dry Stabi Stabi Gene Pit te	eral Rema	<b>rks</b> at 1.60mbgl on possible rockhead										



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OC	3SL/								22	000			
CON	TRACT PPK3 Profile Park	1					TRIAL, PI	IT NO.	TP9 Shee	<b>)6</b> et 1 of 1			
LOG	GED BY S.Hannon	ES		77.46 E 66.88 N		DATE ST	·	03/0	03/09/2019				
			730,166.88 N /EL (m) 80.55			DATE CO	<u> </u>		9/2019				
CLIE	NT NEER PM Group							EXCAVATION 7T Excavator METHOD					
		6						Samples	2	neter			
	Geotechnical Description		Depth (m)		exercise a second se				t (KPå				
				Elevation	Water Strike	Sample Ref	e	Depth	Vane Test (KPa	Hand Penetrometer			
0.0	TOPSOIL: Soft brown slightly sandy slightly	arovelly		<u>a</u> e	Ë	Ň	Re Re	Type	De	Va	Ha		
	CLAY. Sand is fine to medium.	graveny	<u>10 10 10</u>										
	Firm greyish brown slightly sandy very grav	Firm greyish brown slightly sandy very gravelly silty CLAY with a medium cobble content. Sand is fine to medium.											
	Gravels are angular to subrounded and fine Cobbles are subangular to subrounded.	Gravels are angular to subrounded and fine to coarse.					AA113597	В	0.60				
-													
1.0							AA113598	В	1.10				
	Stiff arev brown slightly sandy very gravelly	silty CLAY		1.70	78.85								
2.0	Stiff grey brown slightly sandy very gravelly silty CLAY with a low cobble content. Sand is fine to medium. Gravels are angular to subrounded and fine to coarse.			X									
2.0	Cobbles are subangular to subrounded.		×  -  ×										
			<u> </u>										
				0.00	77 75		AA113599	В	2.60				
3.0	End of Trial Pit at 2.80m			2.80	77.75								
3.0													
4.0													
<b>Grou</b> Dry	ndwater Conditions												
<b>Stabi</b> Stabl	l <b>ity</b> e												
Gene	eral Remarks												
Pit te	rminated at 2.80mbgl on possible rockhead												

TRIAL PIT RECORD									REPORT NUMBER					
CON	ITRACT	PPK3 Profile Park						TRIAL, P 	IT NO.	TP97				
LOG	GED BY	S.Hannon	CO-ORDINAT		S 703,511.04 E 730,147.47 N DATE					EET         Sheet 1 of 1           TE STARTED         03/09/2019           TE COMPLETED         03/09/2019				
CLIE		214.0	GROUND LE	GROUND LEVEL (m)		81.35				, , , , , , , , , , , , , , , , , , ,	xcavato	r		
ENG	INEER	PM Group							0			2		
		Geotechnical Description		pue	ų	Elevation	Water Strike		Sample		Vane Test (KPa)	Hand Penetrometer (KPa)		
				Legend	Depth (m)	Elev	Wat	Sample Ref	Type	Depth	Van	Han (KP		
0.0	CLAY. S	IL: Soft brown slightly sandy slight Sand is fine to medium.	$\frac{\sqrt{1}}{\sqrt{1}} \frac{\sqrt{1}}{\sqrt{1}}$	0.30	81.05									
- - -	Firm brown slightly sandy very gravelly silty CLAY with a high cobble and high boulder content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.							AA113595	БВ	0.60				
1.0	End of 1	Frial Pit at 1.25m		X	1.25	80.10		AA113596	в	1.10				
- - - - - - - - - - - - - - - - - - -														
3.0														
- 4.0 														
<b>Grou</b> Dry	undwater (	Conditions			L	1		I			1	I		
<b>Stab</b> Stab														
Gen	eral Rema	<b>rks</b> at 1.25mbgl on possible rockhead												



	TRIAL PIT RECORD								REPORT NUMBER		
CON	CONTRACT PPK3 Profile Park			TRIAL, PIT							
LOG	LOGGED BY S.Hannon		CO-ORDINATES GROUND LEVEL (m)			703,463.44 E 730,149.26 N 80.79			Sheet 1 of 1       DATE STARTED     03/09/2019       DATE COMPLETED     03/09/2019       EXCAVATION     7T Excavator       METHOD     000000000000000000000000000000000000		
	CLIENT ENGINEER PM Group										
						Sample		es		meter	
	Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Firm greyish brown slightly sandy very gravelly silty CLAY with a low cobble content. Sand is fine to medium. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.			0.40	80.39						
-							AA113591	В	0.60		
1.0							AA113592	2 В	1.10		
- - -	End of Trial Pit at 1.60m		X	1.60	79.19						
2.0											
-											
3.0											
-											
4.0											
Grou         Stab           Dry         Stab           Stab         Gene           Pit te         Pit te	undwater Conditions										
Stab	Stability 5 Stabile										
General Remarks Pit terminated at 1.60mbgl on possible rockhead											
lgsL											

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TRIAL PIT F				ECORD						22000			
CONTRACT PPK3 Profile Park									<b>TP100</b> Sheet 1 of 1				
LOG	LOGGED BY S.Hannon		CO-ORDINATES GROUND LEVEL (m)		703,499.60 E 730,118.49 N 81.72			TARTEL OMPLE	<b>D</b> 03/09/2019				
	CLIENT							EXCAVATION 7T Excava METHOD 7T Excava			r		
ENG	INEER PM Group						Sample		es v		leter		
	Geotechnical Description	1	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)		
0.0	TOPSOIL: Soft brown slightly sandy slight CLAY. Sand is fine to medium.	<u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u></u>	0.40	81.32									
-	Firm greyish brown slightly sandy gravelly a low cobble content. Sand is fine to med angular to subrounded and fine to coarse subangular to subrounded.		0.40			AA113593	В	0.60					
- -	End of Trial Pit at 1.20m		×	1.20	80.52		AA113594	В	1.10				
-													
2.0													
-													
- - -													
3.0													
-													
-													
4.0 -													
-													
-													
<b>Groι</b> Dry	undwater Conditions												
Groundwater Conditions         Dry         Stability         Stable         General Remarks         Pit terminated at 1.20mbgl on possible rockhead													
General Remarks													
	erminated at 1.20mbgl on possible rockhead	I											













































































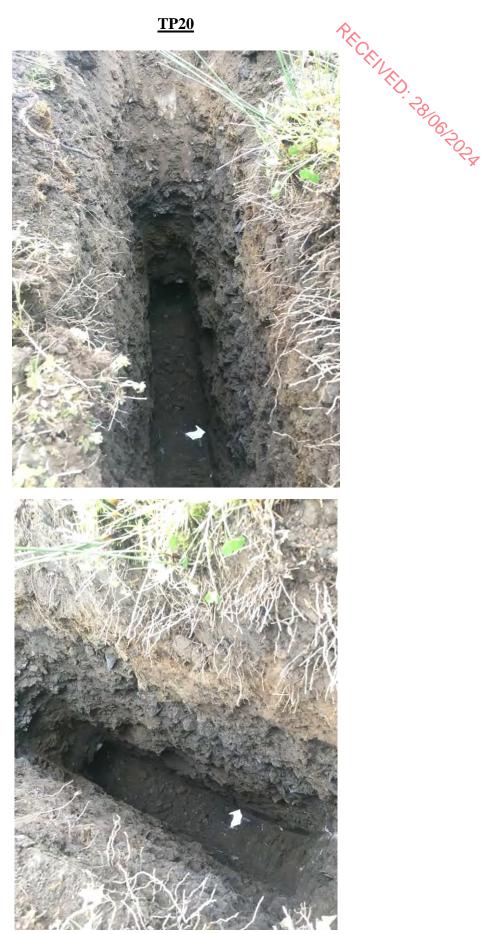




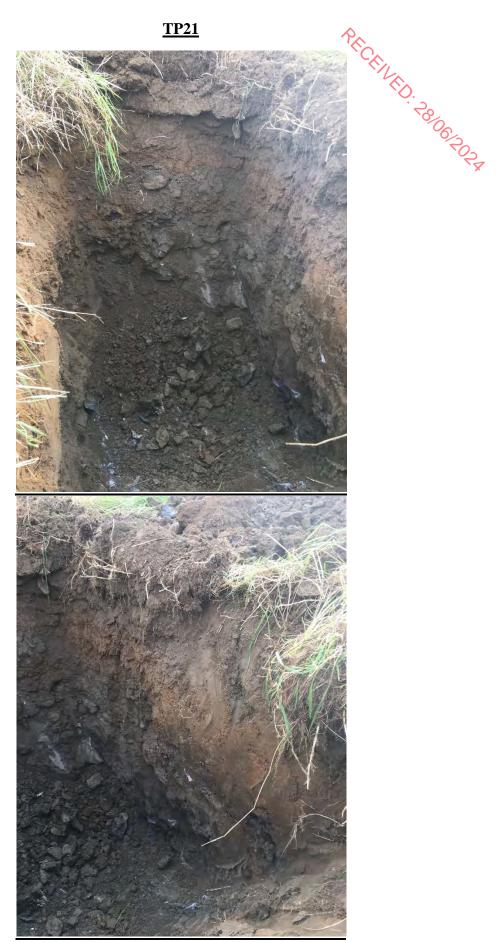








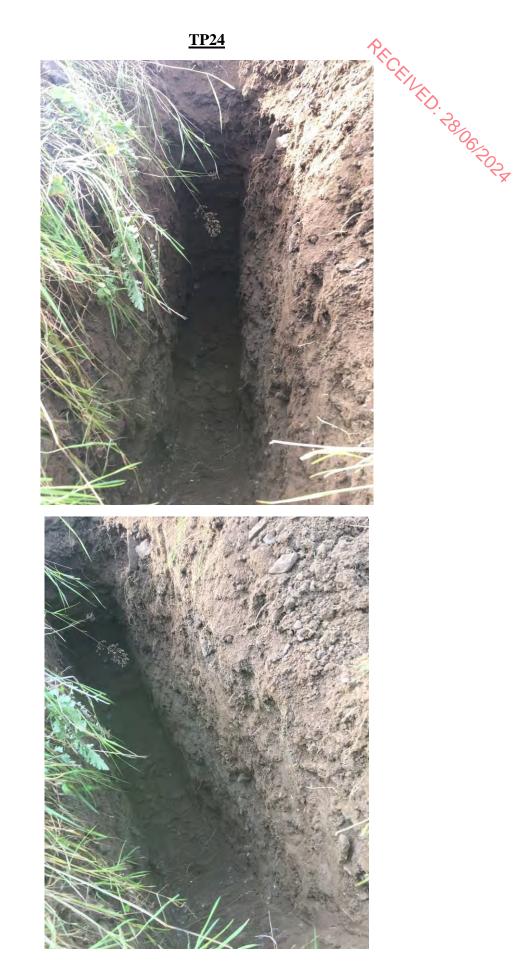
















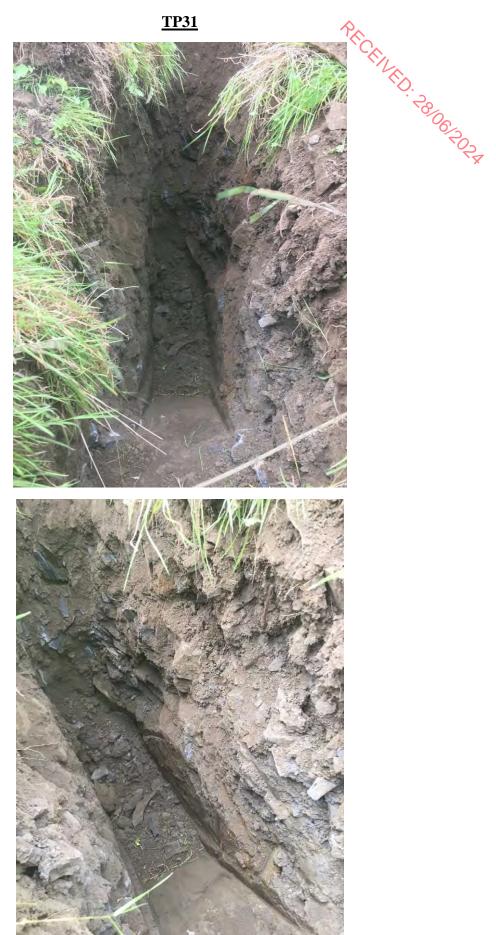




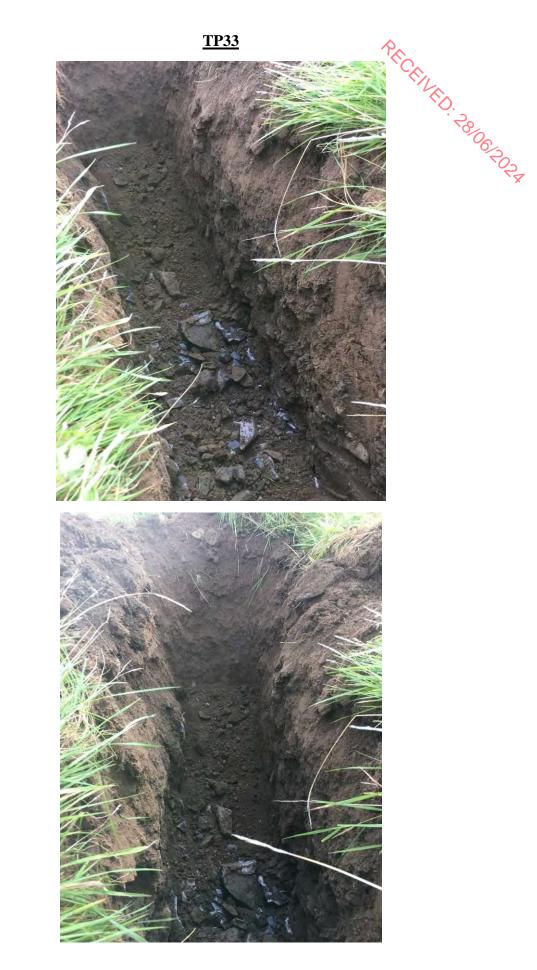






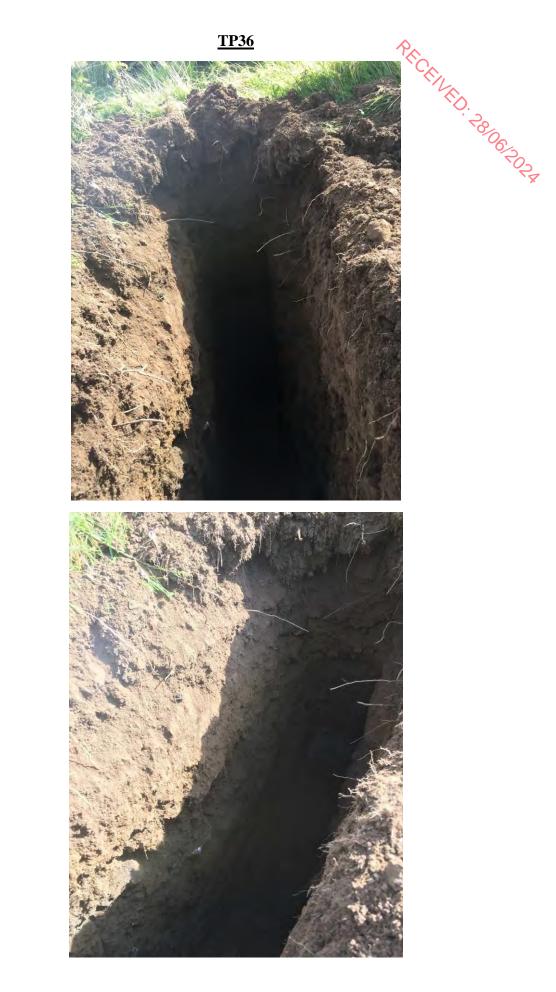












































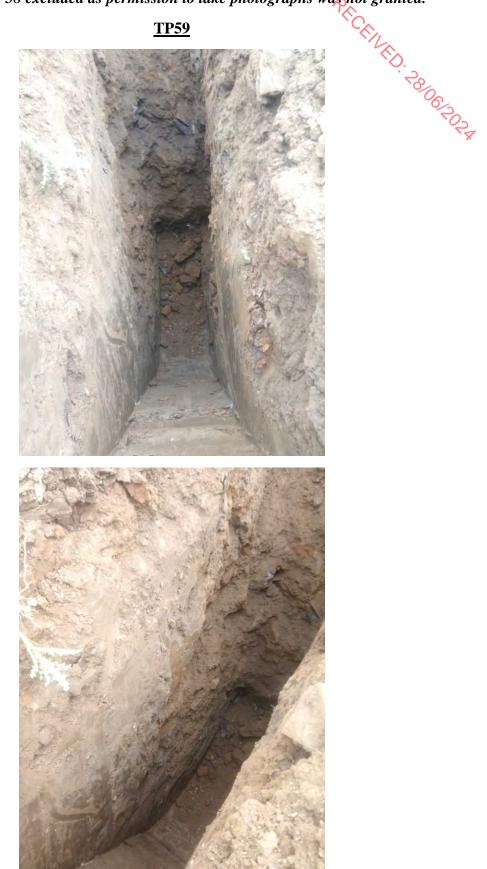


TP53 and TP54 excluded as permission to take photographs was not granted.





TP57 and TP58 excluded as permission to take photographs was not granted.





## TP61, TP62 and TP63 excluded as permission to take photographs was not granted.



TP65 and TP66 excluded as permission to take photographs was not granted.







TP69 to TP72 excluded as permission to take photographs was not granted.



TP74 to TP77 excluded as permission to take photographs was not granted.









