PURE RESIDENTIAL AND COMMERCIAL LTD

PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP

GEOTECHNICAL AND GROUND GAS INVESTIGATION REPORT

REPORT No. E1450.GGC.R1

MAY 2022

Client :	**PURE RESIDENTIAL AND COMMERCIAL LTD**
Project Title :	**PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP**
Document Title:	**GEOTECHNICAL AND GROUND GAS INVESTIGATION REPORT**
Project No.	**E1450**
Report No.	**E1450.GGI.R1**
Date.	**MAY 2022**

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Signed:	[redacted]		

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1. INTRODUCTION.

1.1 Background and Terms of Reference

1.1.1 In December 2021 e-geo Solutions Ltd were commissioned by Pure Residential and Commercial Ltd to undertake a combined geotechnical and ground gas investigation at a proposed residential development site on land known as Plot 1, Plot 2, Plot 3 Ruabon Park off Watkin Way, Ruabon, Wrexham. The objective of the investigation was to determine the ground conditions at the site, the geotechnical properties of the ground strata, and to assess the site with respect to potential ground gas contamination.

1.1.2 This report presents the findings of intrusive investigations with in-situ geotechnical tests, the chemical analysis of soil samples and monitoring of ground gasses.

1.1.3 The site is presently greenfield agricultural land. It is proposed to redevelop the site with residential properties and the findings of the intrusive investigation have been assessed against this proposed end use.

1.1.4 The report has been prepared by e-geo Solutions Ltd for the sole use of the Client, for the purposes described and no extended duty of care applies to other parties. Any other party using this report for any purpose whatsoever do so at their own risk and any duty care to that party is specifically excluded.

1.1.5 The comments given, and opinions expressed, in this report are based on the information available at the time the report was compiled, however there may be additional information and data which becomes available at a later date which has an impact on the report content. Where data supplied by others has been used it has been assumed that the information is correct. No responsibility can be accepted by e-geo Solutions Ltd for inaccuracies within the data supplied by others.

1.1.6 The copyright of this report and its contents prepared by e-geo Solutions Ltd is solely owned by e-geo Solutions Ltd. Neither this report nor contents prepared by e-geo Solutions Ltd may be reproduced, published or adapted without the express written approval of e-geo Solutions Ltd.

1.2 Report Contents

1.2.1 The report includes sections on:-

- Present site description, profile and setting.
- The scope of the investigation, testing and analysis and its justification.
- The geological and hydro-geological conditions encountered in shallow boreholes
- The results of in-situ ground geotechnical strength tests and laboratory geotechnical tests
- Chemical analysis results
- The results of monitoring of selected boreholes for ground gasses.

2. SITE LOCATION, DESCRIPTION AND PROFILE.

2.1 Site Location

2.1.1 The residential development site known as Plot 1, Plot 2 and Plot 3 Ruabon Park is located 0.75km southwest of the centre of Ruabon near Wrexham and just west of the junction of the A539 and A483. The site location is shown on Figure 1 with the extent of Plot 1, Plot 2 and Plot 3 shown on Figure 2. The site area comprises a rectangular area of land which is currently agricultural land. The overall site area is centred at OS Grid Ref: SJ 29909 43303.

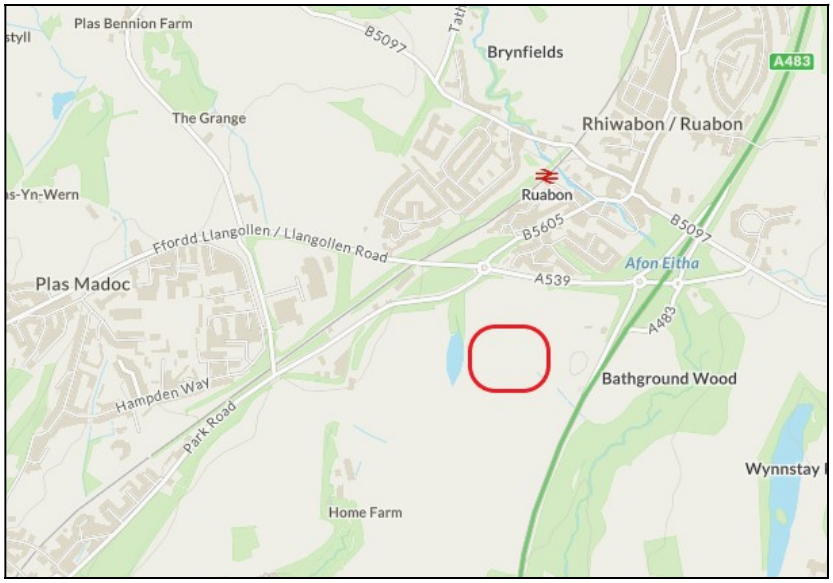


Figure 1 – Site Location

2.1.2 The extent of the site and the study area boundaries is shown on Figure 2.

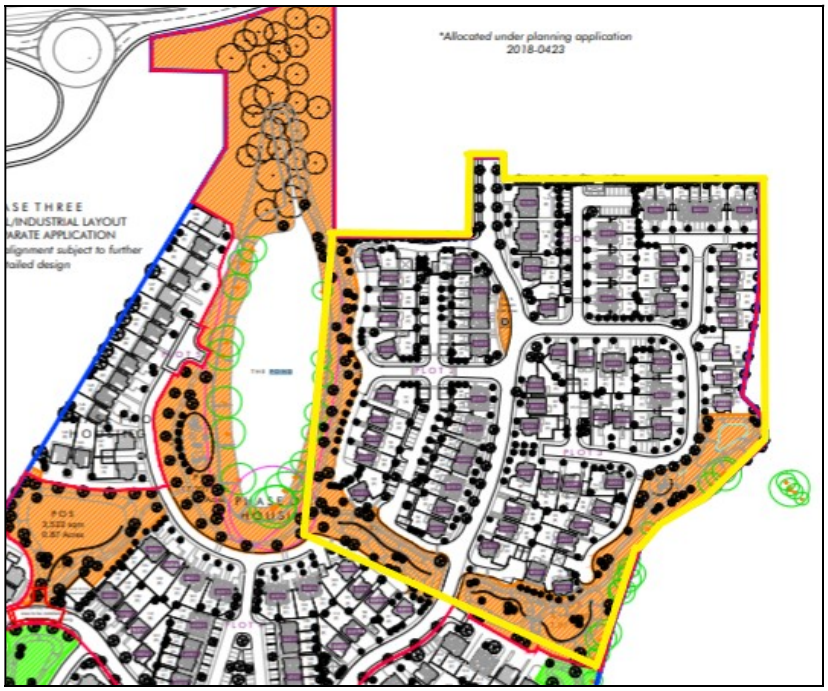


Figure 2 – Site Extent (edged yellow)

2.2 Site Description and Topography

2.2.1 The site area of Plot 1, Plot 2 and Plot 3 presently comprises an extensive area of undeveloped grassed agricultural land, surrounded by agricultural land on all sides and with a petrol station and Aldi store to the northwest and small lake to the west. The overall topography is gently undulating and slopes very gently overall from north to south and west to east, with a slightly raised area of ground in the centre of the site.

2.3 Site Profile

2.3.1 A desk-based Phase 1 contamination study of the site has been undertaken. Full details of the study are presented in a report titled : Ruabon Park, Wrexham, Phase 1 Contamination Assessment Report. Ref 773135-REP-ENV-00116th November 2015 by MLM Consulting Engineers.

3. GROUND INVESTIGATION WORKS.

3.1 Previous Investigations

3.1.1 A previous investigation of the ground at the site was undertaken in November 2015 by MLM Environmental Ltd. The findings are presented in a report titled: Ruabon Park, Wrexham, Preliminary Geoenvironmental Assessment Report. Ref 773135-REP-ENV-002 27th November 2015 by MLM Consulting Engineers.

3.2 Scope of Work – Exploratory Holes

3.2.1 A additional geotechnical and ground gas investigation was undertaken to provide further information on the ground conditions at the site and the soil gas regime. The works were carried out by e-geo Solutions Ltd with the field work element undertaken on 18th January 2022 and 22nd January 2022. The investigation was designed, supervised and administered by e-geo Solutions Ltd and undertaken in accordance with BS5930 (1999) – code of Practice for Site Investigations (Amendment 1).

3.2.2 The main scope of work involved:

- The construction of 21 Nr shallow boreholes to 4 to 5m with continuous core sampling and follow-on Dynamic Cone tests to determine ground SPT N values, density and strength and collect ground samples.
- The examination of ground strata by a geo-environmental engineer and the careful description of soil types. Detailed descriptions of the ground strata are presented on the borehole records in Appendix 1. The dynamic Cone Test report is presented in Appendix 2.
- The installation of ground gas monitoring standpipes in 6 Nr boreholes to 3.5m for ground gas monitoring.
- Collection of ground samples from near the ground surface for chemical analysis and for geotechnical laboratory testing.
- The monitoring of ground gasses on 6 occasions over a 4-month period. Gas monitoring results are presented in Appendix 4.

3.3 Scope of Work – Testing and Analysis

3.3.1 A total of 9 Nr. ground samples were collected from the shallow boreholes and submitted for chemical analysis – soluble sulphate at an accredited analytical laboratory. The analytical results are presented in Appendix 6.

3.3.2 A total of 11 samples were submitted for Atterberg limit test results to determine soil swelling and shrinkage potential. The results are presented in Appendix 3.

3.4 Borehole Locations

3.4.1 Window sampler borehole locations are indicated on Figure 4 below.

3.5 Gas Monitoring

3.5.1 Gas monitoring standpipes were installed in shallow boreholes WS2, WS6, WS11, WS15, WS18, WS21 to a depth of 3.0 to 4.0m and monitored on 6 occasions over a 4-month period. No monitoring of previously installed gas monitoring standpipes was undertaken as all had been completely destroyed.



Figure 4 – Borehole Locations (WS1 to WS21)

4. GROUND CONDITIONS AND GEOLOGY.

4.1 General

4.1.1 Details of the ground strata and depths are presented on the borehole records in Appendix 1. A summary of the findings is presented below.

4.2 Stratigraphy

4.2.1 The general strata and depths encountered during the investigation was:

Stratum	Description	Depth to base m range (average)
TOPSOIL	Dark brown gravelly sandy silty loamy TOPSOIL	0.25 to 0.45
Gravelly SILT or gravelly CLAY	Firm to stiff light brown to medium brown and orange brown very gravelly sandy SILT OR Firm to stiff light brown and orangish brown gravelly silty CLAY.	1.50 to 2.50
SAND and GRAVEL	Loose light to medium brown silty fine to coarse SAND and GRAVEL. OR Light greenish brown silty fine SAND with bands of sandy silt	2.50 to 3.00
Stiff CLAY	Stiff dark brown gravelly sandy silty CLAY with cobbles of sandstone	3.00+

4.3 Groundwater

4.3.1 Groundwater inflows were recorded in boreholes during construction. Details of the inflows are presented on the borehole records.

4.4 Contamination Observations

4.4.1 During the examination of the ground strata no obvious indications of contamination were noted.

4.5 Geotechnical Properties

4.5.1 The results of the Atterberg limit (plasticity) tests are presented in Appendix 3 and are summarised below.

WS No.	Depth	< 425um	PL%	LL%	PI%	Mod PI	Plasticity
WS1	1.50	68	Non plastic				
WS2	1.60	99	19	40	21	21	Intermediate
WS9	3.00	51	15	27	12	6.1	Low
WS11	2.00	67	13	26	13	8.7	Low
WS13	1.30	98	16	31	15	14.7	Low
WS13	1.70	70	Non plastic				
WS15	1.50	69	14	29	15	10.3	Low
WS17	1.20	54	15	24	9	4.8	Low
WS18	1.20	64	15	28	13	8.3	Low
WS20	1.50	63	13	23	10	6.3	Low
WS20	2.10	69	15	27	12	8.3	Low

4.5.2 Ground density and strength varied with depth across the investigation area with individual borehole records (Appendix 1) giving the geotechnical strength characteristics for separate locations.

4.6 Sulphates and Concrete Class

4.6.1 No elevated concentrations of soluble sulphate were detected in the samples analysed. The results indicate that ACEC Class AC1 and sulphate class DS-1 conditions prevail at the site, in accordance with BRE Special Digest 1 'Concrete in Aggressive Ground 2005'

5. GROUND GAS ASSESSMENT

5.1 Ground Gas Investigation Scope of Work

5.1.1 To supplement previous gas monitoring information the ground investigation included the completion of selected boreholes with gas monitoring installations and the monitoring of the installations on 6 occasions over a period of 4 months.

5.1.2 Gas monitoring standpipes were installed in the shallow boreholes to the following depths:

Borehole Number	Installation
WS2	1m plain 3m slotted to 4m
WS6	1m plain 3m slotted to 4m
WS11	0.5m plain 2.5m slotted to 3m
WS15	0.5m plain 2.5m slotted to 3m
WS18	0.5m plain 2.5m slotted to 3m
WS21	0.5m plain 2.5m slotted to 3m

5.1.3 Monitoring of the standpipes for methane (% volume), carbon dioxide (% volume), oxygen (% volume), and flow was undertaken on 01/02/22, 16/02/22, 04/03/22, 25/03/22, 19/04/22, and 12/05/22. Gas monitoring was undertaken with a GA5000 Serial number G507303. Gas monitoring results are presented in Appendix 4.

5.2 Ground Gas Monitoring Results Assessment

5.2.1 In the assessment of soil gasses reference has been made to the NHBC Guidance on Methane and Carbon Dioxide Report Edition No04 (March 2007), BS8485 and CIRIA Publication C659 Assessing Risks Posed by Hazardous Ground Gases To Buildings. The monitoring results have been compared to the standard trigger concentrations of 1% v/v for methane and 5.0% v/v for carbon dioxide.

5.2.2 No detectable concentrations of methane were recorded in boreholes WS2, WS6, WS11, WS15, WS18, WS21 by % volume or % lower explosive limit (LEL) on any of the 6 monitoring visits.

5.2.3 Very low concentrations of carbon dioxide, with slightly depleted oxygen concentrations were detected in all monitoring installations (WS2, WS6, WS11, WS15, WS18, WS21) on most occasions but concentrations were only in the range 0.4% to 2.2% (steady readings) with a maximum of 2.3% (peak reading) detected in WS18 on 04/03/22. All concentrations were consistent during the monitoring period and well below the 5.0% trigger concentration.

5.2.4 When the gas monitoring equipment (GA5000 Gas Analyser Serial Nr. G507303) potential margin of error is taken into consideration the potential maximum peak carbon dioxide concentration is still significantly less than 5.0%.

5.2.5 Gas flows in all monitoring installations were 0.1 l/hr or less.

5.2.6 With reference to the CIRIA and NHBC Guidance and the ‘Traffic Light’ system of ground gas risk assessment the results have been screened using the method for low rise housing developments. No methane was detected. For a maximum peak carbon dioxide concentration of 2.3% and a flow rate of 0.1l/hr the Gas Screening Value (GSV) is 0.0023l/hr. With a GSV of 0.0023 and maximum carbon dioxide concentration of 4.8% the site would be classified as ‘Characteristic Situation 1’.

5.3 Radon Report

5.3.1 A site specific radon report indicating the potential risk from radon gas is presented as Appendix 5. According to BGS Radon Report BGS_326495/34724 BASIC Radon protection measures are required for the site area.

Appendix 1 - Window Sampler Borehole Records

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS1**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 17/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown sandy silty loamy TOPSOIL		
0.20 - 0.50		SPT N=4				
0.50 - 0.80		SPT N=1	0.50	Soft dark brown to dark greyish brown clayey SILT with some organic matter as decayed roots		
0.80 - 1.10		SPT N=4				
1.10 - 1.40		SPT N=16	1.20	Firm dark greyish brown very gravelly clayey SILT. Gravel is subangular fine to coarse various lithologies		
1.40 - 1.70	D - 1.50	SPT N=12				
1.70 - 2.00		SPT N=22	1.80	Dense medium brown slightly silty fine to coarse SAND and GRAVEL. Gravel is subrounded to subangular of various lithologies. Rare cobbloe		
2.00 - 2.30		SPT N=48				
2.30 - 2.60		SPT N=42		Water inflow at 2.20. Standing at 0.90		2.20 inflow
2.60 - 2.90		SPT N=44				
2.90 - 3.20		SPT N=26		Borehole collapse		
3.20 - 3.50		SPT N=16		Base of borehole at 3.00		
3.50 - 3.80		SPT N=14				
3.80 - 4.10		SPT N=17				
4.10 - 4.40		SPT N=19				
4.40 - 4.70		SPT N=21				
4.70 - 5.00		SPT N=24				
5.00 - 5.30		SPT N=30				
5.30 - 5.60		SPT N=29				
5.60 - 5.90		SPT N=23				
5.90 - 6.20		SPT N=28		Base of DCP at 7.10		
6.20 - 6.50		SPT N=26				

DCP with SPTs carried out to 7.10m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS1**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 17/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=26					
6.80 - 7.10		SPT N=24					
				Base of DCP at 7.10			

DCP with SPTs carried out to 7.10m adjacent to window sample borehole

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Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS2**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 17/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown sandy silty loamy TOPSOIL		Dry during boring
0.20 - 0.50		SPT N=4	0.30	Firm to stiff light brown to medium brown very gravelly sandy SILT. Gravel is subangular fine to coarse various lithologies		
0.50 - 0.80	Shear vane 62kN/m2	SPT N=6				
0.80 - 1.10		SPT N=5				
1.10 - 1.40	Shear vane 85kN/m2	SPT N=5	1.00	Stiff medium grey and medium brown silty CLAY		
1.40 - 1.70	D - 1.60	SPT N=6				
1.70 - 2.00		SPT N=9	1.80	Medium brown slightly gravelly fine to medium SAND		
2.00 - 2.30		SPT N=10	2.00	Stiff medium grey and medium brown silty CLAY		
2.30 - 2.60		SPT N=7				
2.60 - 2.90		SPT N=6				
2.90 - 3.20		SPT N=2				
3.20 - 3.50		SPT N=3				
3.50 - 3.80		SPT N=6				
3.80 - 4.10		SPT N=7				
4.10 - 4.40		SPT N=7		Base of borehole at 4.00		
4.40 - 4.70		SPT N=10				
4.70 - 5.00		SPT N=9				
5.00 - 5.30		SPT N=8				
5.30 - 5.60		SPT N=18				
5.60 - 5.90		SPT N=27		Base of DCP at 6.80		
5.90 - 6.20		SPT N=23				
6.20 - 6.50		SPT N=20				

DCP with SPTs carried out to 6.80m adjacent to window sample borehole. Gas monitoring pipe 1m plain 3m slotted to 4m.

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WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS2**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 17/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=21		Base of DCP at 6.80			

DCP with SPTs carried out to 6.80m adjacent to window sample borehole

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WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS3**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 17/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown sandy silty loamy TOPSOIL		Dry during boring
0.20 - 0.50		SPT N=4	0.35	Firm to stiff light brown to medium brown very gravelly sandy SILT. Gravel is subangular fine to coarse various lithologies		
0.50 - 0.80		SPT N=12	0.65	Firm light brown with some orange brown slightly gravelly sandy SILT		
0.80 - 1.10	Shear vane 50kN/m2	SPT N=11	0.85	Firm to stiff medium orangish brown gravelly silty CLAY. Gravel is subrounded fine to coarse various lithologies		
1.10 - 1.40	Shear vane 65kN/m2	SPT N=7				
1.40 - 1.70	D - 1.40	SPT N=9	1.50	Light greenish brown silty fine SAND with bands of sandy silt		
1.70 - 2.00		SPT N=7				
2.00 - 2.30		SPT N=8				
2.30 - 2.60		SPT N=7				
2.60 - 2.90		SPT N=7				
2.90 - 3.20		SPT N=5	2.90	Medium grey slightly gravelly medium SAND		
3.20 - 3.50		SPT N=6				
3.50 - 3.80		SPT N=4		Base of borehole at 3.50 Hole collapse		
3.80 - 4.10		SPT N=4				
4.10 - 4.40		SPT N=17				
4.40 - 4.70		SPT N=15				
4.70 - 5.00		SPT N=10				
5.00 - 5.30		SPT N=17				
5.30 - 5.60		SPT N=16				
5.60 - 5.90		SPT N=17				
5.90 - 6.20		SPT N=22				
6.20 - 6.50		SPT N=27		Base of DCP at 7.70		

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

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Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS3**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 17/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=20					
6.80 - 7.10		SPT N=27					
7.10 - 7.40		SPT N=50+					
7.40 - 7.70		SPT N=36					
				Base of DCP at 7.70			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

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WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS4**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 17/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown sandy silty loamy TOPSOIL		Dry during boring
0.20 - 0.50		SPT N=7	0.30	Firm to stiff light brown to medium brown very gravelly sandy SILT. Gravel is subangular fine to coarse various lithologies		
0.50 - 0.80		SPT N=10				
0.80 - 1.10		SPT N=11				
1.10 - 1.40		SPT N=6	1.10	Firm to stiff medium orangish brown gravelly silty CLAY. Gravel is subrounded fine to coarse various lithologies		
1.40 - 1.70		SPT N=12				
1.70 - 2.00		SPT N=10				
2.00 - 2.30		SPT N=15	2.00	Light greyish brown slightly gravelly silty fine SAND with bands of sandy silt		
2.30 - 2.60		SPT N=8				
2.60 - 2.90		SPT N=9				
2.90 - 3.20		SPT N=8	2.90	Medium greyish brown slightly gravelly silty medium SAND		
3.20 - 3.50		SPT N=8				
3.50 - 3.80		SPT N=9		Base of borehole at 3.50		
3.80 - 4.10		SPT N=10				
4.10 - 4.40		SPT N=10				
4.40 - 4.70		SPT N=9				
4.70 - 5.00		SPT N=20				
5.00 - 5.30		SPT N=30				
5.30 - 5.60		SPT N=40				
5.60 - 5.90		SPT N=22				
5.90 - 6.20		SPT N=24				
6.20 - 6.50		SPT N=28		Base of DCP at 8.00		

DCP with SPTs carried out to 8.00m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS4**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 17/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=32					
6.80 - 7.10		SPT N=27					
7.10 - 7.40		SPT N=28					
7.40 - 7.70		SPT N=29					
7.70 - 8.00		SPT N=32					
				Base of DCP at 8.00			

DCP with SPTs carried out to 8.00m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS5**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 21/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown gravelly sandy silty TOPSOIL		Dry during boring
0.20 - 0.50		SPT N=10	0.35	Loose light to medium brown silty fine to coarse SAND and GRAVEL. Gravel is subrounded to subangular predominantly sandstone		
0.50 - 0.80		SPT N=11				
0.80 - 1.10		SPT N=6				
1.10 - 1.40		SPT N=15	1.10	Firm to stiff medium orangish brown gravelly silty CLAY. Gravel is subrounded fine to coarse sandstone and quartz		
1.40 - 1.70	Shear vane 60kN/m2	SPT N=7				
1.70 - 2.00		SPT N=10				
2.00 - 2.30		SPT N=14	2.00	Light greyish brown slightly gravelly silty fine SAND with bands of sandy silt		
2.30 - 2.60		SPT N=8				
2.60 - 2.90		SPT N=6	2.50	Medium greyish brown slightly gravelly very silty medium SAND		
2.90 - 3.20		SPT N=7				
3.20 - 3.50		SPT N=14		Base of borehole at 3.00		
3.50 - 3.80		SPT N=21				
3.80 - 4.10		SPT N=20				
4.10 - 4.40		SPT N=18				
4.40 - 4.70		SPT N=20				
4.70 - 5.00		SPT N=20				
5.00 - 5.30		SPT N=25				
5.30 - 5.60		SPT N=20				
5.60 - 5.90		SPT N=18				
5.90 - 6.20		SPT N=23				
6.20 - 6.50		SPT N=22		Base of DCP at 6.80		

DCP with SPTs carried out to 6.80m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS5**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 21/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=19					
				Base of DCP at 6.80			

DCP with SPTs carried out to 6.80m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS6**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 21/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown gravelly sandy silty TOPSOIL		Dry during boring
0.20 - 0.50		SPT N=12	0.30	Loose light to medium brown silty fine to coarse SAND and GRAVEL. Gravel is subrounded to subangular predominantly sandstone		
0.50 - 0.80		SPT N=8				
0.80 - 1.10		SPT N=9				
1.10 - 1.40		SPT N=8	1.10	Firm to stiff medium orangish brown gravelly silty CLAY. Gravel is subrounded fine to coarse sandstone and quartz		
1.40 - 1.70		SPT N=9				
1.70 - 2.00		SPT N=8	1.80	Loose light to medium brown silty fine to coarse SAND and GRAVEL. Gravel is subrounded to subangular predominantly sandstone		
2.00 - 2.30		SPT N=9				
2.30 - 2.60		SPT N=7	2.20	Firm to stiff medium orangish brown gravelly silty CLAY. Gravel is subrounded fine to coarse sandstone and quartz		
2.60 - 2.90		SPT N=7				
2.90 - 3.20		SPT N=5				
3.20 - 3.50		SPT N=16				
3.50 - 3.80		SPT N=25	3.60	Dense medium greenish brown slightly silty medium SAND		
3.80 - 4.10		SPT N=19				
4.10 - 4.40		SPT N=17		Base of borehole at 4.00		
4.40 - 4.70		SPT N=15				
4.70 - 5.00		SPT N=22				
5.00 - 5.30		SPT N=32				
5.30 - 5.60		SPT N=32				
5.60 - 5.90		SPT N=26				
5.90 - 6.20		SPT N=23				
6.20 - 6.50		SPT N=24		Base of DCP at 7.70		

DCP with SPTs carried out to 7.70m adjacent to window sample borehole.Gas monitoring pipe 1m plain 3m slotted to 4m.

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS6**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 21/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=30					
6.80 - 7.10		SPT N=32					
7.10 - 7.40		SPT N=35					
7.40 - 7.70		SPT N=32					
				Base of DCP at 7.70			

DCP with SPTs carried out to 6.80m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS7**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 21/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
0.00 - 0.20		SPT N=0		Dark brown gravelly sandy silty TOPSOIL		Dry during boring	
0.20 - 0.50		SPT N=8	0.35	Loose light to medium brown silty fine to coarse SAND and GRAVEL. Gravel is subrounded to subangular predominantly sandstone			
0.50 - 0.80		SPT N=8					
0.80 - 1.10		SPT N=18					
1.10 - 1.40		SPT N=10	1.20	Firm to stiff medium orangish brown gravelly silty CLAY. Gravel is subrounded fine to coarse sandstone and quartz			
1.40 - 1.70		SPT N=9					
1.70 - 2.00		SPT N=10	1.80	Loose light to medium brown silty fine to coarse SAND and GRAVEL. Gravel is subrounded to subangular predominantly sandstone			
2.00 - 2.30		SPT N=13					
2.30 - 2.60		SPT N=30					
2.60 - 2.90		SPT N=17					
2.90 - 3.20		SPT N=39	3.00	Base of borehole at 3.00			
3.20 - 3.50		SPT N=22					
3.50 - 3.80		SPT N=22					
3.80 - 4.10		SPT N=22					
4.10 - 4.40		SPT N=23					
4.40 - 4.70		SPT N=24					
4.70 - 5.00		SPT N=17					
5.00 - 5.30		SPT N=35					
5.30 - 5.60		SPT N=25					
5.60 - 5.90		SPT N=24					
5.90 - 6.20		SPT N=27					
6.20 - 6.50		SPT N=40		Base of DCP at 8.00			

DCP with SPTs carried out to 8.00m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS7**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 21/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=51					
6.80 - 7.10		SPT N=50+					
7.10 - 7.40		SPT N=50+					
7.40 - 7.70		SPT N=50+					
7.70 - 8.00		SPT N=50+					
				Base of DCP at 8.00			

DCP with SPTs carried out to 8.00m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS8**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 21/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown gravelly sandy silty TOPSOIL		
0.20 - 0.50		SPT N=5				
			0.40	Firm medium grey and greyish brown slightly gravelly sandy SILT. Rare sandstone cobble		Water inflow 0.50mbgl
0.50 - 0.80		SPT N=5				
0.80 - 1.10		SPT N=4				
1.10 - 1.40		SPT N=8				
			1.20	Soft dark brown silty CLAY with bands of sandy silt (damp)		
1.40 - 1.70		SPT N=8				
1.70 - 2.00		SPT N=11				
			1.80	Stiff dark brown silty CLAY with bands of sandy silt (damp)		
2.00 - 2.30		SPT N=32				
2.30 - 2.60		SPT N=14				
2.60 - 2.90		SPT N=29				
			2.80	Dense medium brown medium SAND		
2.90 - 3.20		SPT N=26				
			3.00			
3.20 - 3.50		SPT N=29		Base of borehole at 3.00		
3.50 - 3.80		SPT N=30				
3.80 - 4.10		SPT N=50+				
4.10 - 4.40		SPT N=50+				
4.40 - 4.70		SPT N=39				
4.70 - 5.00		SPT N=49				
5.00 - 5.30		SPT N=37				
5.30 - 5.60		SPT N=23				
5.60 - 5.90		SPT N=19				
5.90 - 6.20		SPT N=26				
6.20 - 6.50		SPT N=22		Base of DCP at 7.70		

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS8**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 21/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=18					
6.80 - 7.10		SPT N=20					
7.10 - 7.40		SPT N=29					
7.40 - 7.70		SPT N=37					
				Base of DCP at 7.70			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS9**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 21/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown gravelly sandy TOPSOIL		
0.20 - 0.50		SPT N=5				
			0.40			
0.50 - 0.80		SPT N=5		Soft medium grey and greyish brown very gravelly sandy SILT. Gravel is subangualr fine to coarse sandstone and siltstone. Rare sandstone cobble.		
0.80 - 1.10		SPT N=4				
	D - 1.00					
1.10 - 1.40		SPT N=4				
1.40 - 1.70		SPT N=7				
			1.50			
1.70 - 2.00		SPT N=6		Loose medium grey slightly silty fine to coarse SAND and GRAVEL. Gravel is subrounded various lithologies		Inflow at 1.50mbgl
2.00 - 2.30		SPT N=15				
			2.20			
2.30 - 2.60		SPT N=13		Firm medium brown slightly gravelly sandy silty CLAY		
	D - 2.50					
2.60 - 2.90		SPT N=13				
2.90 - 3.20		SPT N=23				
			3.00			
3.20 - 3.50		SPT N=23		Base of borehole at 3.00		
3.50 - 3.80		SPT N=26				
3.80 - 4.10		SPT N=25				
4.10 - 4.40		SPT N=29				
4.40 - 4.70		SPT N=34				
4.70 - 5.00		SPT N=27				
5.00 - 5.30		SPT N=41				
5.30 - 5.60		SPT N=44				
5.60 - 5.90		SPT N=39				
5.90 - 6.20		SPT N=33				
6.20 - 6.50		SPT N=50+		Base of DCP at 7.70		

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS9**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 21/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=50+					
6.80 - 7.10		SPT N=50+					
7.10 - 7.40		SPT N=50+					
7.40 - 7.70		SPT N=50+					
				Base of DCP at 7.70			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS10**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
0.00 - 0.20		SPT N=0		Dark brown gravelly sandy TOPSOIL			
0.20 - 0.50		SPT N=6	0.30	Soft medium grey and greyish brown very gravelly sandy SILT. Gravel is subangular fine to coarse sandstone and siltstone. Rare sandstone cobble.			
0.50 - 0.80		SPT N=4					
0.80 - 1.10		SPT N=8					
1.10 - 1.40		SPT N=22					
1.40 - 1.70		SPT N=9					
1.70 - 2.00		SPT N=14	1.80	Loose medium grey slightly silty fine to coarse SAND and GRAVEL. Gravel is subrounded various lithologies			
2.00 - 2.30		SPT N=14					
2.30 - 2.60		SPT N=19					
2.60 - 2.90		SPT N=13		becoming very clayey from 2.70			
2.90 - 3.20		SPT N=14	3.00	Base of borehole at 3.00			
3.20 - 3.50		SPT N=19					
3.50 - 3.80		SPT N=23					
3.80 - 4.10		SPT N=36					
4.10 - 4.40		SPT N=28					
4.40 - 4.70		SPT N=26					
4.70 - 5.00		SPT N=50+					
5.00 - 5.30		SPT N=50+					
5.30 - 5.60		SPT N=49					
5.60 - 5.90		SPT N=50+					
5.90 - 6.20		SPT N=32					
6.20 - 6.50		SPT N=31		Base of DCP at 7.40			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS10**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=38					
6.80 - 7.10		SPT N=35					
7.10 - 7.40		SPT N=35					
				Base of DCP at 7.40			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS11**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown gravelly sandy TOPSOIL		
0.20 - 0.50		SPT N=4	0.32	Stiff light brown slightly gravelly sandy silty CLAY		
0.50 - 0.80		SPT N=4				
0.80 - 1.10		SPT N=4				
1.10 - 1.40		SPT N=6	1.20	Firm light brown to medium brown slightly gravelly sandy SILT with bands of silty fine sand		
1.40 - 1.70	D - 1.50	SPT N=9				
1.70 - 2.00		SPT N=6	1.80	Stiff dark brown gravelly sandy silty CLAY. Gravel is subangular fine to coarse various lithologies. Rare cobble		
2.00 - 2.30		SPT N=4				
2.30 - 2.60		SPT N=28				
2.60 - 2.90		SPT N=25				Inlow at 2.60mbgl
2.90 - 3.20		SPT N=33				
3.20 - 3.50		SPT N=21		Base of borehole at 3.00		
3.50 - 3.80		SPT N=20				
3.80 - 4.10		SPT N=32				
4.10 - 4.40		SPT N=39				
4.40 - 4.70		SPT N=33				
4.70 - 5.00		SPT N=46				
5.00 - 5.30		SPT N=50+				
5.30 - 5.60		SPT N=48				
5.60 - 5.90		SPT N=32				
5.90 - 6.20		SPT N=39		Base of DCP at 7.10		
6.20 - 6.50		SPT N=37				

DCP with SPTs carried out to 7.70m adjacent to window sample borehole.Gas monitoring pipe 0.5m plain 2.5m slotted to 3m.

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS11**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=27					
6.80 - 7.10		SPT N=47					
7.10 - 7.40		SPT N=50+					
7.40 - 7.70		SPT N=50+					
				Base of DCP at 7.70			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS12**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
0.00 - 0.20		SPT N=0		Dark brown gravelly silty TOPSOIL			
0.20 - 0.50		SPT N=3	0.30	Firm light brown slightly gravelly sandy silty CLAY			
0.50 - 0.80		SPT N=8					
0.80 - 1.10		SPT N=8					
1.10 - 1.40		SPT N=7					
1.40 - 1.70		SPT N=7					
1.70 - 2.00		SPT N=6					
2.00 - 2.30		SPT N=26	2.00	Stiff dark brown gravelly sandy silty CLAY. Gravel is subangular fine to coarse various lithologies. Rare cobble			
2.30 - 2.60		SPT N=26					
2.60 - 2.90		SPT N=16					
2.90 - 3.20		SPT N=28					
3.20 - 3.50		SPT N=32		Base of borehole at 3.00			
3.50 - 3.80		SPT N=32					
3.80 - 4.10		SPT N=23					
4.10 - 4.40		SPT N=29					
4.40 - 4.70		SPT N=39					
4.70 - 5.00		SPT N=28					
5.00 - 5.30		SPT N=28					
5.30 - 5.60		SPT N=39					
5.60 - 5.90		SPT N=26					
5.90 - 6.20		SPT N=31		Base of DCP at 7.40			
6.20 - 6.50		SPT N=36					

DCP with SPTs carried out to 7.40m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS12**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=40					
6.80 - 7.10		SPT N=50					
7.10 - 7.40		SPT N=50+					
				Base of DCP at 7.40			

DCP with SPTs carried out to 7.40m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS13**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown gravelly silty TOPSOIL		
0.20 - 0.50		SPT N=6	0.22	Stiff light brown to light greenish grey brown slightly sandy silty CLAY. Rare cobble sandstone		
0.50 - 0.80		SPT N=5				
0.80 - 1.10		SPT N=4				
1.10 - 1.40		SPT N=3				Inflow at 1.20mbgl
1.40 - 1.70		SPT N=11				
			1.50	Medium brown fine to medium SAND		
1.70 - 2.00		SPT N=6				
			1.90	Greyish brown sandy SILT		
2.00 - 2.30		SPT N=8	2.00	Loose medium brown slightly silty fine to medium SAND and GRAVEL. Gravel is subrounded various lithologies		
2.30 - 2.60		SPT N=5				
			2.50	Firm to stiff medium grey sandy clayey SILT		
2.60 - 2.90		SPT N=6				
2.90 - 3.20		SPT N=6				
				Base of borehole at 3.00		
3.20 - 3.50		SPT N=6				
3.50 - 3.80		SPT N=7				
3.80 - 4.10		SPT N=12				
4.10 - 4.40		SPT N=13				
4.40 - 4.70		SPT N=14				
4.70 - 5.00		SPT N=18				
5.00 - 5.30		SPT N=25				
5.30 - 5.60		SPT N=28				
5.60 - 5.90		SPT N=33				
				Base of DCP at 7.40		
5.90 - 6.20		SPT N=50+				
6.20 - 6.50		SPT N=50+				

DCP with SPTs carried out to 7.40m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS13**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=50+					
6.80 - 7.10		SPT N=50					
7.10 - 7.40		SPT N=50+					
				Base of DCP at 7.40			

DCP with SPTs carried out to 7.40m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS14**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown gravelly silty TOPSOIL		
0.20 - 0.50		SPT N=6	0.20	Firm light brown to light greenish grey brown slightly sandy silty CLAY.		
0.50 - 0.80		SPT N=6				
0.80 - 1.10		SPT N=4				
1.10 - 1.40		SPT N=3		becoming more sandy from 1.10mbgl		
1.40 - 1.70		SPT N=4				
1.70 - 2.00		SPT N=7				Inflow at 1.50mbgl
2.00 - 2.30		SPT N=8	2.00	Loose medium brown slightly silty fine to medium SAND and GRAVEL. Gravel is subrounded various lithologies		
2.30 - 2.60		SPT N=8				
2.60 - 2.90		SPT N=14		becoming very silty from 2.70mbgl		
2.90 - 3.20		SPT N=6				
3.20 - 3.50		SPT N=9		Base of borehole at 3.00		
3.50 - 3.80		SPT N=7				
3.80 - 4.10		SPT N=9				
4.10 - 4.40		SPT N=11				
4.40 - 4.70		SPT N=14				
4.70 - 5.00		SPT N=17				
5.00 - 5.30		SPT N=21				
5.30 - 5.60		SPT N=38				
5.60 - 5.90		SPT N=27				
5.90 - 6.20		SPT N=34				
6.20 - 6.50		SPT N=39		Base of DCP at 7.70		

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS14**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=31					
6.80 - 7.10		SPT N=38					
7.10 - 7.40		SPT N=39					
7.40 - 7.70		SPT N=46					
				Base of DCP at 7.70			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS15**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
0.00 - 0.20		SPT N=0		Dark brown gravelly silty TOPSOIL			
0.20 - 0.50		SPT N=5	0.30	Firm light brown light grey and some light orangish brown slightly gravelly sandy silty CLAY			
0.50 - 0.80		SPT N=5	0.60	Firm becoming firm to stiff medium brown to dark brown gravelly sandy silty CLAY. Gravel is subangular fine to coarse predominantly sandstone. Rare cobble			
0.80 - 1.10		SPT N=8					
1.10 - 1.40		SPT N=9					
1.40 - 1.70	D - 1.50	SPT N=10					
1.70 - 2.00		SPT N=10					
2.00 - 2.30		SPT N=21					
2.30 - 2.60		SPT N=17					
2.60 - 2.90		SPT N=13					
2.90 - 3.20		SPT N=16					
3.20 - 3.50		SPT N=50+		Base of borehole at 3.00			
3.50 - 3.80		SPT N=34					
3.80 - 4.10		SPT N=22					
4.10 - 4.40		SPT N=21					
4.40 - 4.70		SPT N=15					
4.70 - 5.00		SPT N=16					
5.00 - 5.30		SPT N=29					
5.30 - 5.60		SPT N=24					
5.60 - 5.90		SPT N=23					
5.90 - 6.20		SPT N=50+					
6.20 - 6.50		SPT N=31		Base of DCP at 7.70			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole.Gas monitoring pipe 0.5m plain 2.5m slotted to 3m.

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS15**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=26					
6.80 - 7.10		SPT N=33					
7.10 - 7.40		SPT N=33					
7.40 - 7.70		SPT N=30					
				Base of DCP at 7.70			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS16**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 1
Dates : 26/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
0.00 - 0.20		SPT N=0		Dark brown gravelly silty TOPSOIL			
0.20 - 0.50		SPT N=4	0.30	Firm light brown light grey and some light orangish brown slightly gravelly sandy silty CLAY			
0.50 - 0.80		SPT N=3	0.60	Soft to firm becoming firm medium brown and dark brown gravelly sandy silty CLAY. Gravel is subangular fine to coarse predominantly sandstone. Rare cobble of sandstone			
0.80 - 1.10		SPT N=5					
1.10 - 1.40		SPT N=5					
1.40 - 1.70		SPT N=7					
1.70 - 2.00		SPT N=8					
2.00 - 2.30		SPT N=40		becoming very stiff			
2.30 - 2.60		SPT N=26					
2.60 - 2.90		SPT N=18					
2.90 - 3.20		SPT N=25					
3.20 - 3.50		SPT N=27		Base of borehole at 3.00			
3.50 - 3.80		SPT N=21					
3.80 - 4.10		SPT N=44					
4.10 - 4.40		SPT N=22					
4.40 - 4.70		SPT N=29					
4.70 - 5.00		SPT N=50+		Base of DCP at 5.00			

DCP with SPTs carried out to 5.00m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS17**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 27/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown gravelly silty TOPSOIL		
0.20 - 0.50		SPT N=5	0.27			
0.50 - 0.80		SPT N=9		Firm light brown light orangish brown and light grey slightly garvelly sandy silty CLAY		
0.80 - 1.10		SPT N=10				
1.10 - 1.40		SPT N=16	1.20			
1.40 - 1.70	D - 1.20	SPT N=12		Stiff dark brown gravelly sandy silty CLAY. Gravel is angular to subrounded fine to coarse various lithologies		Inflow at 1.50mbgl
1.70 - 2.00		SPT N=35				
2.00 - 2.30		SPT N=15				
2.30 - 2.60		SPT N=12				
2.60 - 2.90		SPT N=25				
2.90 - 3.20		SPT N=50+				
3.20 - 3.50		SPT N=41		Base of borehole at 3.00		
3.50 - 3.80		SPT N=19				
3.80 - 4.10		SPT N=36				
4.10 - 4.40		SPT N=32				
4.40 - 4.70		SPT N=31				
4.70 - 5.00		SPT N=50+				
5.00 - 5.30		SPT N=49				
5.30 - 5.60		SPT N=50				
5.60 - 5.90		SPT N=47				
5.90 - 6.20		SPT N=42				
6.20 - 6.50		SPT N=50		Base of DCP at 7.70		

DCP with SPTs carried out to 7.40m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS17**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 27/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=50+					
6.80 - 7.10		SPT N=50+					
7.10 - 7.40		SPT N=50+					
				Base of DCP at 7.40			

DCP with SPTs carried out to 7.40m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS18**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 27/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
0.00 - 0.20		SPT N=0		Dark brown gravelly silty TOPSOIL			
0.20 - 0.50		SPT N=13	0.30	Stiff light brown light orangish brown and light grey slightly gravelly sandy silty CLAY			
0.50 - 0.80		SPT N=14					
0.80 - 1.10		SPT N=40	0.80	Stiff dark brown gravelly sandy silty CLAY. Gravel is angular to subrounded fine to coarse various lithologies			
1.10 - 1.40		SPT N=27					
1.40 - 1.70	D - 1.20	SPT N=15					
1.70 - 2.00		SPT N=24					
2.00 - 2.30		SPT N=42	1.80	Stiff medium grey very gravelly sandy silty CLAY. Gravel is subangualr fine to coarse various lithologies			
2.30 - 2.60		SPT N=27					
2.60 - 2.90		SPT N=37					
2.90 - 3.20		SPT N=24					
3.20 - 3.50		SPT N=36		Base of borehole at 3.00			
3.50 - 3.80		SPT N=50+					
3.80 - 4.10		SPT N=45					
4.10 - 4.40		SPT N=34					
4.40 - 4.70		SPT N=47					
4.70 - 5.00		SPT N=50+					
5.00 - 5.30		SPT N=50+					
5.30 - 5.60		SPT N=46					
5.60 - 5.90		SPT N=50+					
5.90 - 6.20		SPT N=50+					
6.20 - 6.50		SPT N=50+		Base of DCP at 7.70			

DCP with SPTs carried out to 7.40m adjacent to window sample borehole. Gas monitoring pipe 0.5m plain 2.5m slotted to 3m.

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS18**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 27/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=50+					
6.80 - 7.10		SPT N=50+					
7.10 - 7.40		SPT N=50+					
				Base of DCP at 7.40			

DCP with SPTs carried out to 7.40m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS19A**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 1
Dates : 27/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
0.00 - 0.20		SPT N=0		Dark brown gravelly silty TOPSOIL			
0.20 - 0.50		SPT N=5	0.30	Stiff light brown light orangish brown and light grey slightly gravelly sandy silty CLAY			
0.50 - 0.80		SPT N=4					
0.80 - 1.10		SPT N=25					
1.10 - 1.40		SPT N=25	1.10	Stiff dark brown gravelly sandy silty CLAY. Gravel is angular to subrounded fine to coarse various lithologies			
1.40 - 1.70		SPT N=25					
1.70 - 2.00		SPT N=23					
2.00 - 2.30		SPT N=19	2.00	Stiff medium grey very gravelly sandy silty CLAY. Gravel is subangualr fine to coarse various lithologies			
2.30 - 2.60		SPT N=25					
2.60 - 2.90		SPT N=25					
2.90 - 3.20		SPT N=29					
3.20 - 3.50		SPT N=29		Base of borehole at 3.00			
3.50 - 3.80		SPT N=30					
3.80 - 4.10		SPT N=18					
4.10 - 4.40		SPT N=21					
4.40 - 4.70		SPT N=29					
4.70 - 5.00		SPT N=50+		Base of DCP at 5.00			

DCP with SPTs carried out to 5.00m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
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WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS20**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 27/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)
0.00 - 0.20		SPT N=0		Dark brown gravelly silty TOPSOIL		
0.20 - 0.50		SPT N=4	0.30	Stiff light brown light orangish brown and light grey slightly gravelly sandy silty CLAY		
0.50 - 0.80		SPT N=3				
0.80 - 1.10		SPT N=5				
1.10 - 1.40		SPT N=7				Inflow at 1.00mbgl
1.40 - 1.70	D - 1.20 D - 1.50	SPT N=8				
1.70 - 2.00		SPT N=11	1.80	Stiff dark brown gravelly sandy silty CLAY. Gravel is angular to subrounded fine to coarse various lithologies		
2.00 - 2.30	D - 2.10	SPT N=9				
2.30 - 2.60		SPT N=12				
2.60 - 2.90		SPT N=12				
2.90 - 3.20		SPT N=18				
3.20 - 3.50		SPT N=27		Base of borehole at 3.00		
3.50 - 3.80		SPT N=31				
3.80 - 4.10		SPT N=45				
4.10 - 4.40		SPT N=31				
4.40 - 4.70		SPT N=50+				
4.70 - 5.00		SPT N=50+				
5.00 - 5.30		SPT N=50+				
5.30 - 5.60		SPT N=49				
5.60 - 5.90		SPT N=50+				
5.90 - 6.20		SPT N=34				
6.20 - 6.50		SPT N=35		Base of DCP at 7.70		

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS20**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 27/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=35					
6.80 - 7.10		SPT N=40					
7.10 - 7.40		SPT N=31					
7.40 - 7.70		SPT N=34					
				Base of DCP at 7.70			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
Tel: 01745 828494. Mob: 07899980958

WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS21**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 1 of 2
Dates : 27/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
0.00 - 0.20		SPT N=0		Dark brown gravelly silty TOPSOIL			
0.20 - 0.50		SPT N=7					
			0.35	Stiff light brown light orangish brown and light grey slightly gravelly sandy silty CLAY			
0.50 - 0.80		SPT N=6					
0.80 - 1.10		SPT N=6					
1.10 - 1.40		SPT N=10					
1.40 - 1.70		SPT N=9					
1.70 - 2.00		SPT N=20					
2.00 - 2.30		SPT N=26					
			2.20	Stiff dark brown gravelly sandy silty CLAY. Gravel is angular to subrounded fine to coarse various lithologies			
2.30 - 2.60		SPT N=31					
2.60 - 2.90		SPT N=29					
2.90 - 3.20		SPT N=17					
				Base of borehole at 3.00			
3.20 - 3.50		SPT N=24					
3.50 - 3.80		SPT N=25					
3.80 - 4.10		SPT N=36					
4.10 - 4.40		SPT N=44					
4.40 - 4.70		SPT N=22					
4.70 - 5.00		SPT N=29					
5.00 - 5.30		SPT N=24					
5.30 - 5.60		SPT N=34					
5.60 - 5.90		SPT N=32					
5.90 - 6.20		SPT N=47					
6.20 - 6.50		SPT N=50+		Base of DCP at 7.70			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole. Gas monitoring pipe 0.5m plain 2.5m slotted to 3m.

E-GEO SOLUTIONS LTD, GLASGOW HOUSE, HIGH STREET, ST. ASAPH, LL17 0RD
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WINDOW SAMPLE BOREHOLE RECORD

SITE: PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	BOREHOLE No:
PROJECT: E1450 PLOT1, PLOT2, PLOT3 RUABON PARK, WATKIN WAY, RUABON, LL14 6EP	**WS21**
CLIENT: PURE RESIDENTIAL AND COMMERCIAL LTD	Sheet 2 of 2
Dates : 27/01/2022	Project Ref: E1450
Elev (maOD) :	
Casing dia : 100mm	Logged By: HLJ
Engineer : e-geo Solutions Ltd	

Depth (m)	Sample/ Test	Field Record	Depth (m)	Strata Description	Casing Depth(m)	Water Depth(m)	
6.50 - 6.80		SPT N=50+					
6.80 - 7.10		SPT N=50+					
7.10 - 7.40		SPT N=50+					
7.40 - 7.70		SPT N=50+		Base of DCP at 7.70			

DCP with SPTs carried out to 7.70m adjacent to window sample borehole